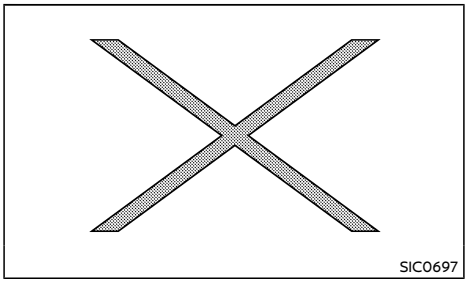


X-TRAIL

OWNER'S MANUAL

the risk, the procedures must be followed carefully.


SIC0697

If you see this symbol, it means **"Do not do this"** or **"Do not let this happen"**.



If you see a symbol similar to these in an illustration, it means the arrow points to the front of the vehicle.



Arrows in an illustration that are similar to these indicate movement or action.



Arrows in an illustration that are similar to these call attention to an item in the illustration.

Trademarks:

Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon Corporation.

Air bag warning label:



WAB0183X

"NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur."

Be sure to read "Air bag warning labels" (P.1-40).

INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM/INTELLIGENT EMERGENCY BRAKING SYSTEM (if equipped)

Throughout this OM, both the Intelligent Emergency Braking with Pedestrian Detection system and the Intelligent Emergency Braking system will be referred to as "Intelligent Emergency Braking with Pedestrian Detection system". The system naming and functions differ depending on the country. (See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) for details.)

ON-PAVEMENT AND OFF-ROAD DRIVING

This vehicle will handle and maneuver differently from an ordinary passenger car, because it has a higher center of gravity. As with other vehicles with features of this type, failure to operate this vehicle correctly may result in loss of control or an accident.

Be sure to read the "On-pavement and off-road driving precautions" (P.5-10) of this manual.

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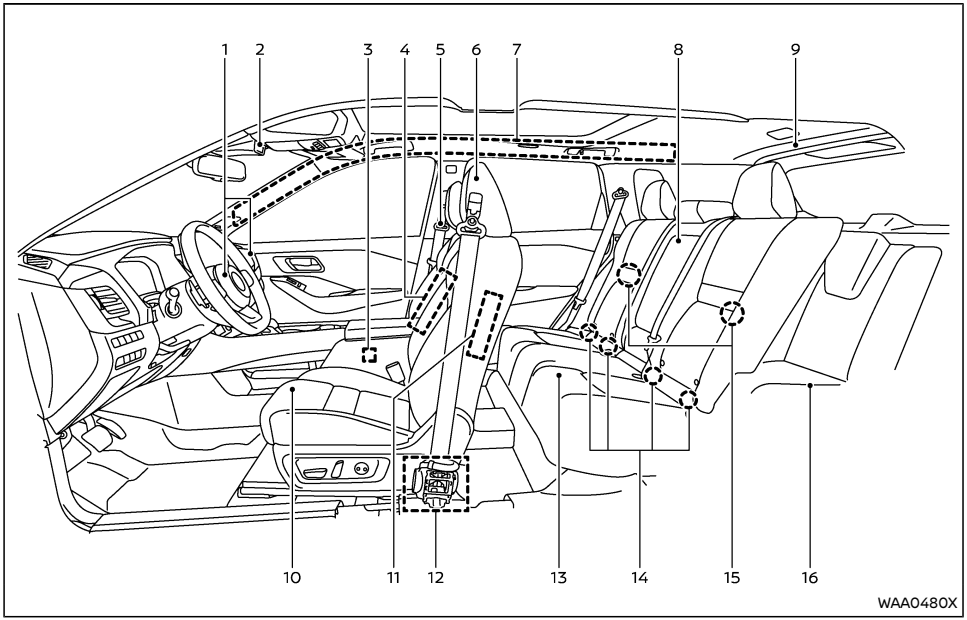
SEATS, SEAT BELTS AND SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



1. Supplemental front-impact air bags (P.1-37)
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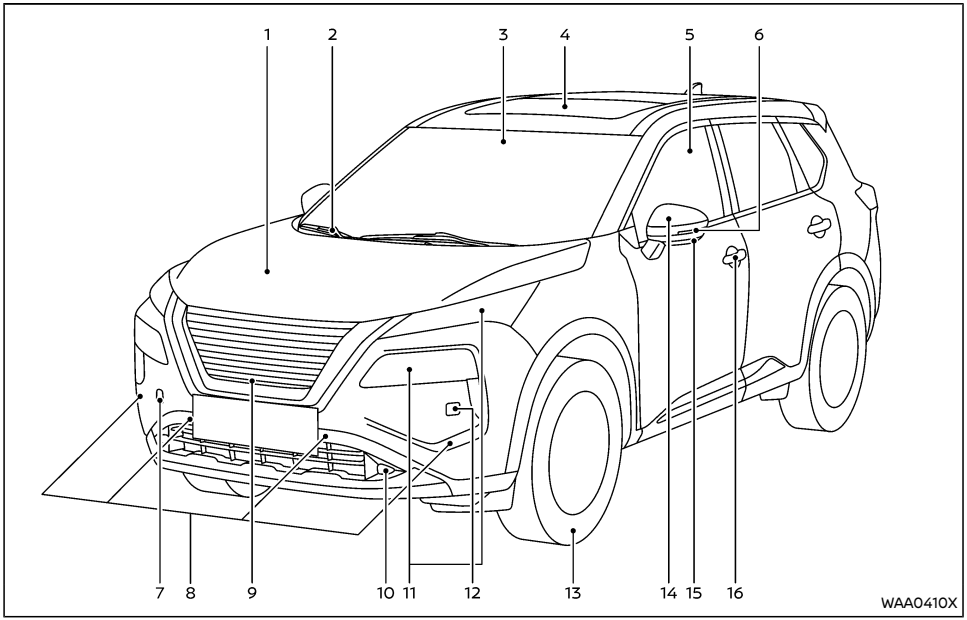
*: if equipped

EXTERIOR FRONT



1. Hood (P.3-21)
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    — Intelligent Key system (P.3-6)
    — Security system (P.3-18)
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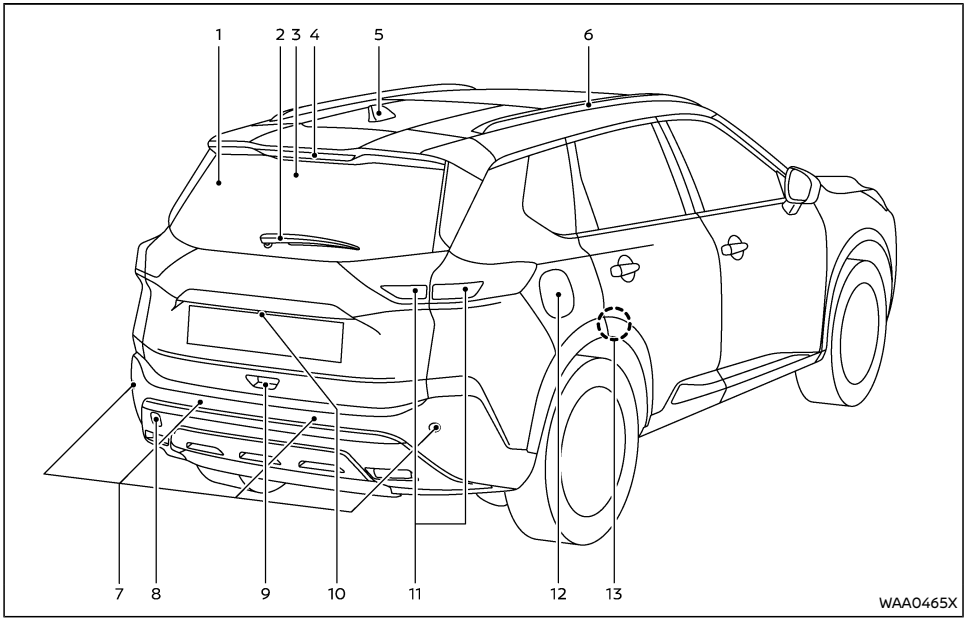
*: if equipped

EXTERIOR REAR



1. Rear window defogger (P.2-60)
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3. Intelligent Rear View Mirror camera* (P.3-29)
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   — Parking sensor (sonar) system (P.5-177)
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    — Fuel information (P.9-4)
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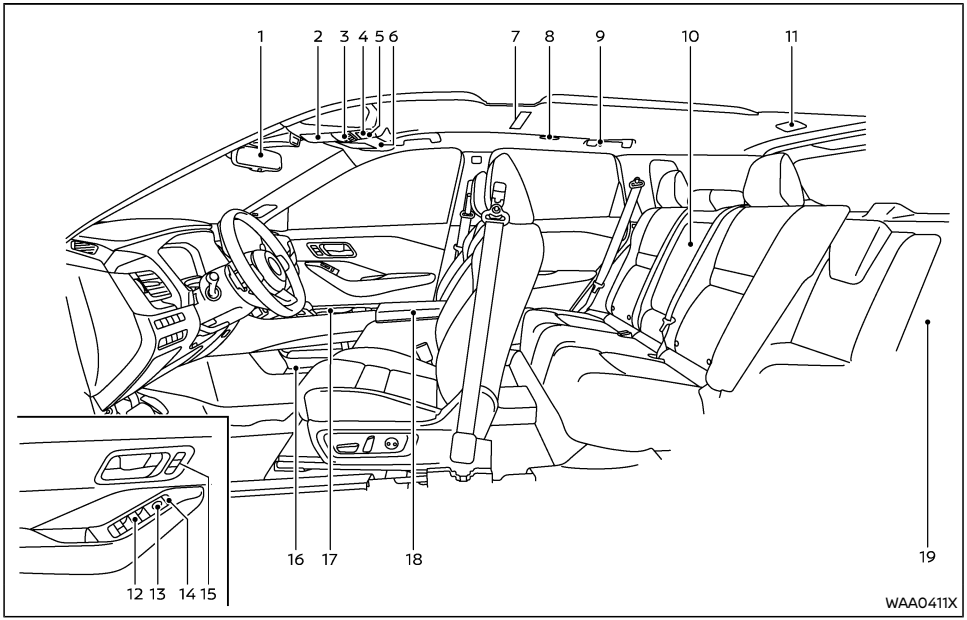
*: if equipped

PASSENGER COMPARTMENT



1. Inside rearview mirror (P.3-29)
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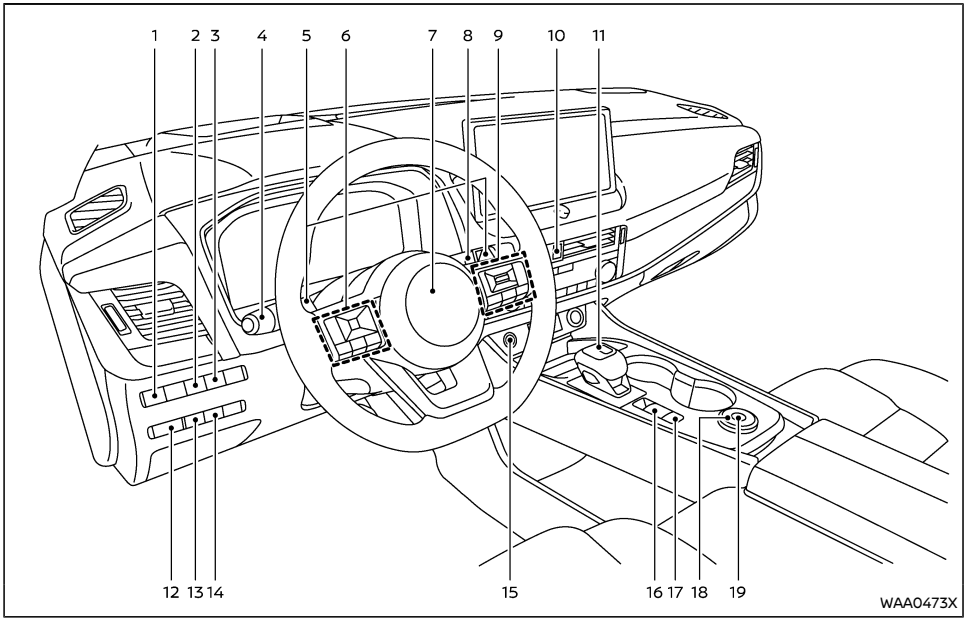
    — Emergency tire puncture repair kit* (P.6-8)
    — Power outlet (P.2-62)

*: if equipped

COCKPIT

LEFT-HAND DRIVE (LHD) MODEL



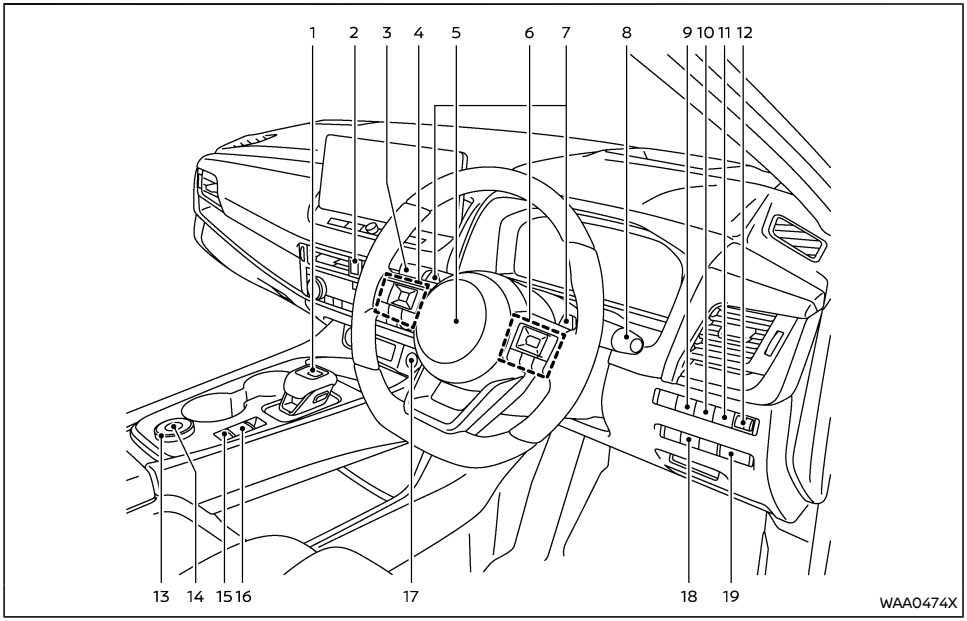
1. Headlight aiming control switch* (P.2-53)
2. Steering Assist switch* (models with ProPILOT) (P.5-109) or dynamic driver assistance switch* (models without ProPILOT) (P.5-53, P.5-77)
3. Head Up Display (HUD) switch* (P.2-46)
4. Headlight and turn signal switch (P.2-49)/ Fog light switch* (P.2-56)
5. Paddle shifters (P.5-22)
6. Steering-wheel-mounted controls (left side)
   — Audio control (P.4-46 or **)
   — Vehicle information display control (P.2-21)
7. Steering wheel (P.3-28)
   — Horn (P.2-60)
8. Wiper and washer switch (P.2-57)
9. Steering-wheel-mounted controls (right side)
   — Speed limiter switches* (P.5-90)
   — Cruise control switches* (P.5-92)
   — Intelligent Cruise Control (ICC) switches* (P.5-94)
   — ProPILOT switches* (P.5-53, P.5-77, P.5-109)
   — Bluetooth® Hands-Free Phone System switches (P.4-48 or **)
   — Voice Recognition system switch**
10. Hazard indicator flasher switch (P.6-2)
11. Shift lever
    — Continuously Variable Transmission (CVT) (P.5-19)
12. Instrument brightness control (P.2-11)
13. Stop/Start or Idling Stop OFF switch* (P.5-29)
14. Power back door switch* (P.3-22)
15. Push-button ignition switch (P.5-13)
16. Parking brake switch (P.3-36)
17. Automatic brake hold switch (P.3-38)
18. Drive Mode Selector*** (P.5-16)
19. Hill descent control switch* (P.5-176)

*: if equipped

**: See the separate NissanConnect Owner's Manual (if equipped).

***: The Drive Mode Selector illustrated is for the 4WD/AWD model. On the 2WD model, the shape and location differ.

RIGHT-HAND DRIVE (RHD) MODEL



1. Shift lever
   — Continuously Variable Transmission (CVT) (P.5-19)
2. Hazard indicator flasher switch (P.6-2)
3. Headlight and turn signal switch (P.2-49)/ Fog light switch* (P.2-56)
4. Steering-wheel-mounted controls (left side)
   — Audio control (P.4-46 or **)
   — Vehicle information display control (P.2-21)
5. Steering wheel (P.3-28)
   — Horn (P.2-60)
6. Steering-wheel-mounted controls (right side)
   — Speed limiter switches* (P.5-90)
   — Cruise control switches* (P.5-92)
   — Intelligent Cruise Control (ICC) switches* (P.5-94)
   — ProPILOT switches* (P.5-53, P.5-77, P.5-109)
   — Bluetooth® Hands-Free Phone System switches (P.4-48 or **)
   — Voice Recognition system switch**
7. Paddle shifters (P.5-22)
8. Wiper and washer switch (P.2-57)
9. Head Up Display (HUD) switch* (P.2-46)
10. Steering Assist switch* (models with ProPILOT) (P.5-109) or dynamic driver assistance switch* (models without ProPILOT) (P.5-53, P.5-77)
11. Stop/Start or Idling Stop OFF switch* (P.5-29)
12. Headlight aiming control switch* (P.2-53)
13. Drive Mode Selector*** (P.5-16)
14. Hill descent control switch* (P.5-176)
15. Automatic brake hold switch (P.3-38)
16. Parking brake switch (P.3-36)
17. Push-button ignition switch (P.5-13)
18. Power back door switch* (P.3-22)
19. Instrument brightness control (P.2-11)

*: if equipped

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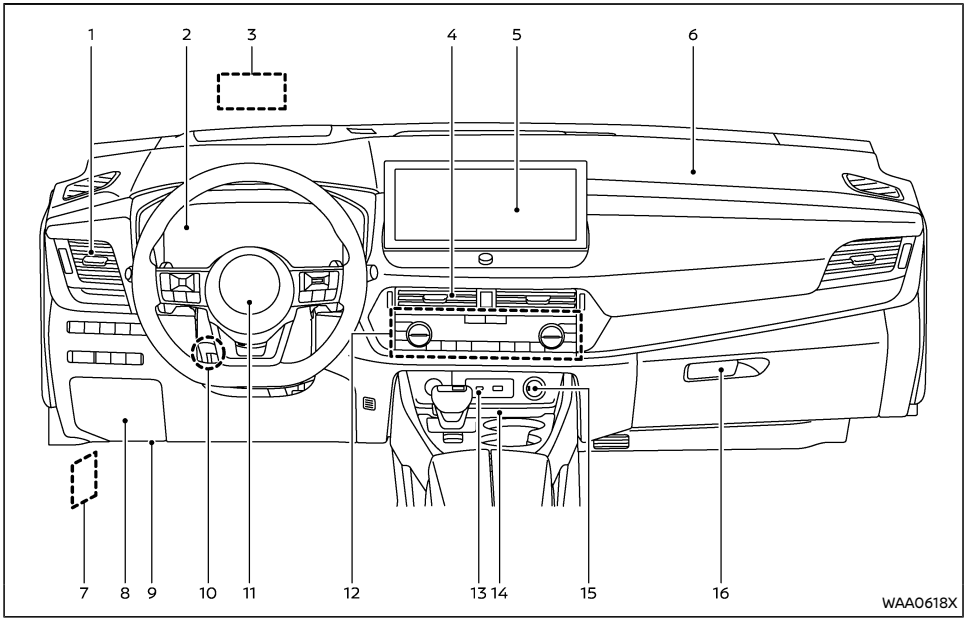
***: The Drive Mode Selector illustrated is for the 4WD/AWD model. On the 2WD model, the shape and location differ.

INSTRUMENT PANEL

LEFT-HAND DRIVE (LHD) MODEL



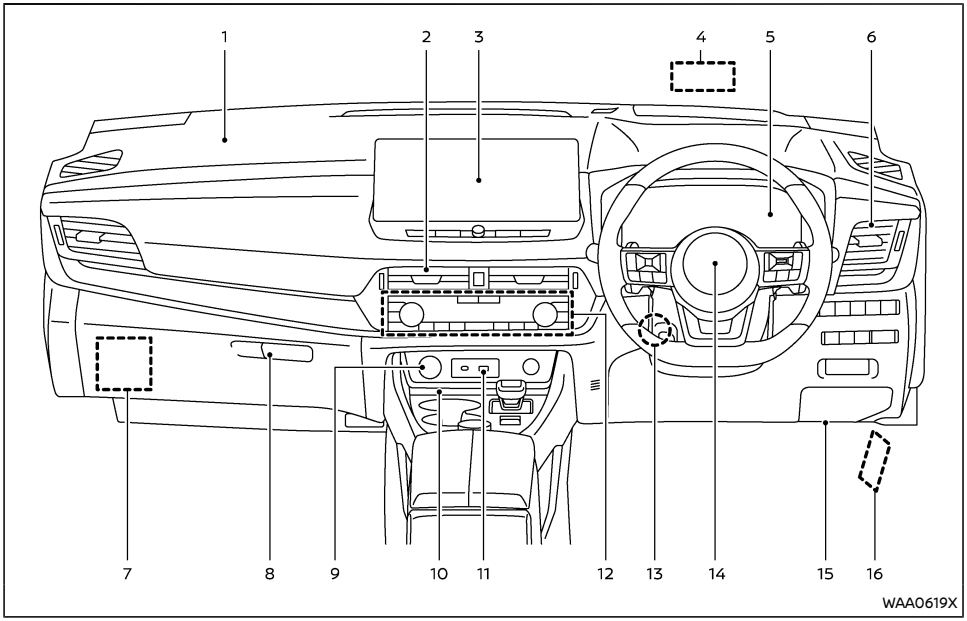
1. Side ventilator (P.4-19)
2. Meters and gauges (P.2-7)/Clock (P.2-46)
3. Head Up Display (HUD)* (P.2-46)
4. Center ventilator (P.4-19)
5. Audio system (P. 4-35 or **) or navigation system**
   - — Rear view monitor* (P.4-3)
   - — Intelligent Around View Monitor* (P.4-8)
   - — Bluetooth® Hands-Free Phone System (P. 4-48 or **)
   - — Clock (P. 4-40 or **)
6. Front passenger supplemental air bag (P.1-37)
7. Hood release handle (P.3-21)
8. Fuse box cover (P.8-22)
9. USB port for TSR map update*** (P.5-44)
10. Tilt and telescopic steering lock lever (P.3-28)
11. Driver supplemental front-impact air bag (P.1-37)
12. Heater and air conditioner control (P.4-20)
    - — Defogger switch (P.2-60)
    - — Heated seat switches* (P.1-5)
    - — Heated steering wheel switch* (P.2-61)
    - — Heated windshield* (P.2-59)
13. USB (Universal Serial Bus) connection port (s) (P. 4-46 or **)
14. Wireless charger* (P.2-63)
15. Power outlet (P.2-62)
16. Glove box (P.2-69)

*: if equipped

**: See the separate NissanConnect Owner's Manual (if equipped).

***: Not functional depending on the country (if equipped)

RIGHT-HAND DRIVE (RHD) MODEL



1. Front passenger supplemental air bag (P.1-37)
2. Center ventilator (P.4-19)
3. Audio system (P. 4-35 or **) or navigation system**
   - — Rear view monitor* (P.4-3)
   - — Intelligent Around View Monitor* (P.4-8)
   - — Bluetooth® Hands-Free Phone System (P. 4-48 or **)
   - — Clock (P. 4-40 or **)
4. Head Up Display (HUD)* (P.2-46)
5. Meters and gauges (P.2-7)/Clock (P.2-46)
6. Side ventilator (P.4-19)
7. Fuse box cover (P.8-22)
8. Glove box (P.2-69)
9. Power outlet (P.2-62)
10. Wireless charger* (P.2-63)
11. USB (Universal Serial Bus) connection port (s) (P. 4-46 or **)
12. Heater and air conditioner control (P.4-20)
    - — Defogger switch (P.2-60)
    - — Heated seat switches* (P.1-5)
    - — Heated steering wheel switch* (P.2-61)
    - — Heated windshield* (P.2-59)
13. Tilt and telescopic steering lock lever (P.3-28)
14. Driver supplemental front-impact air bag (P.1-37)
15. USB port for TSR map update*** (P.5-44)
16. Hood release handle (P.3-21)

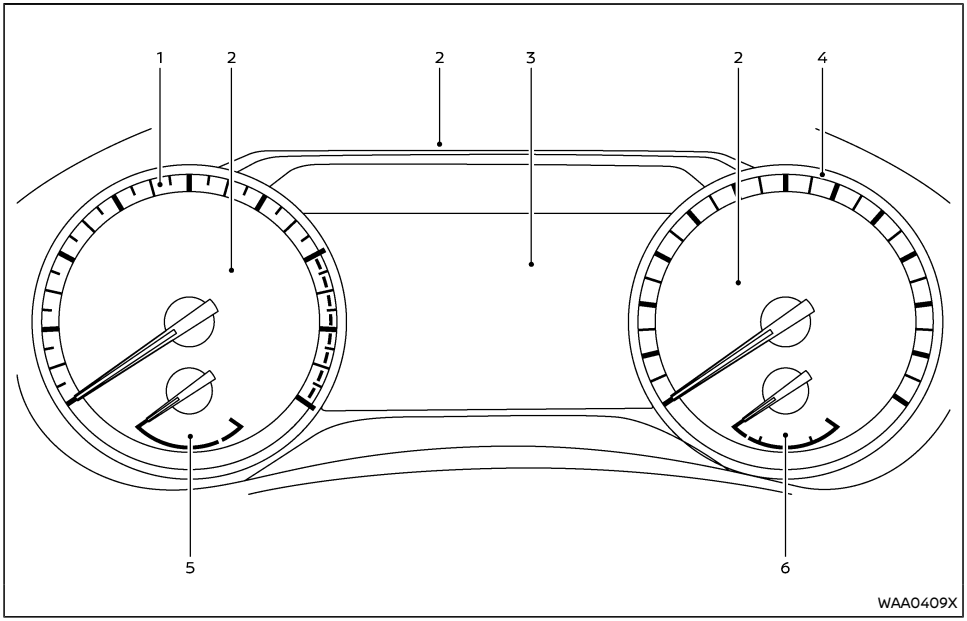
*: if equipped

**: See the separate NissanConnect Owner's Manual (if equipped).

***: Not functional depending on the country (if equipped)

METERS AND GAUGES

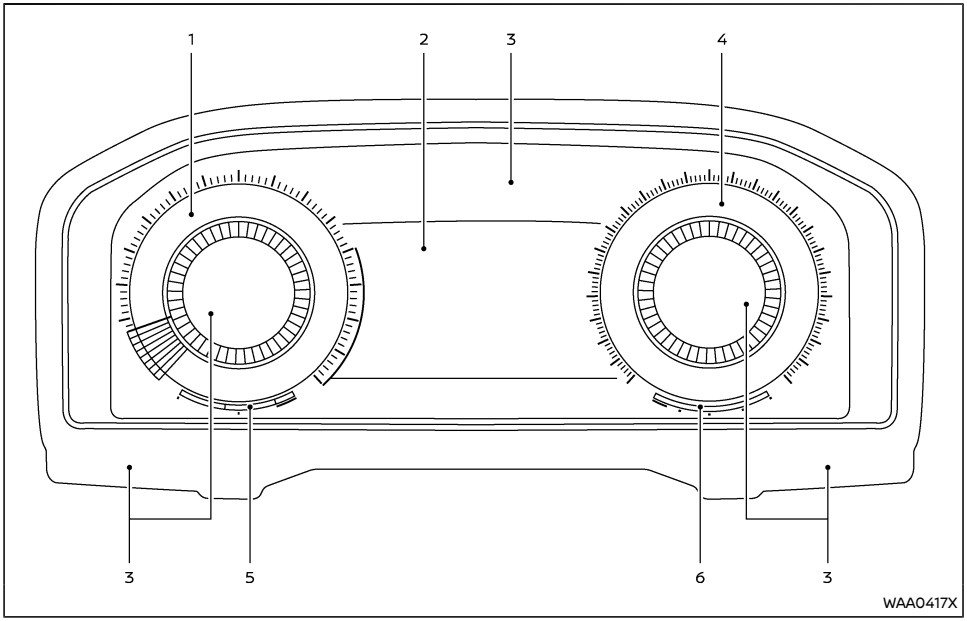
MODELS WITH ANALOG METER AND COLOR DISPLAY



Example

1. Tachometer (P.2-10)
2. Warning and indicator lights (P.2-13)
3. Vehicle information display (P.2-21)
   — Odometer (P.2-9)
4. Speedometer (P.2-9)
5. Engine coolant temperature gauge (P.2-10)
6. Fuel gauge (P.2-11)

MODELS WITH FULL-SCREEN DISPLAY

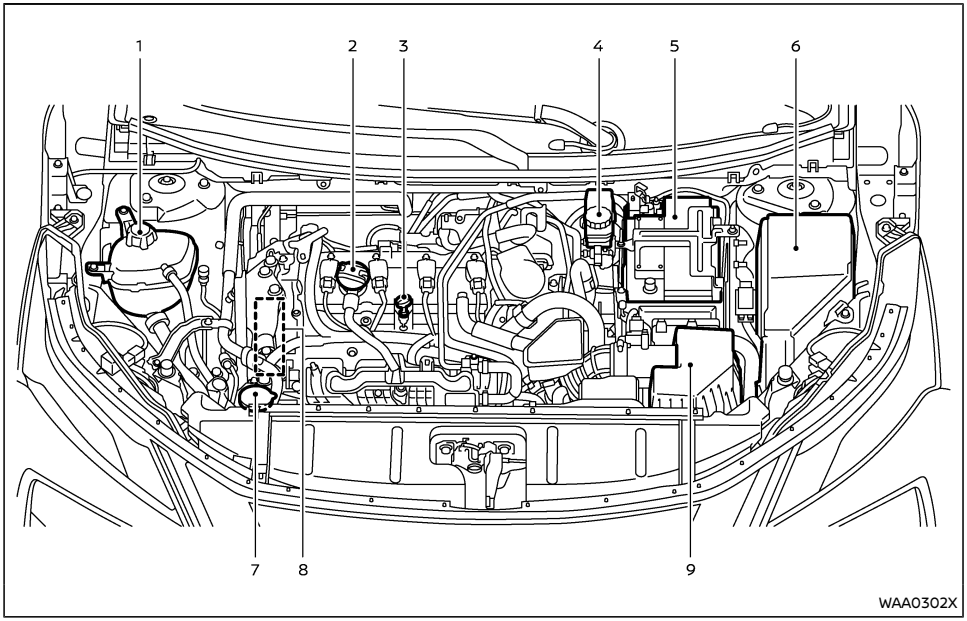


1. Tachometer (P.2-10)
2. Vehicle information display (P.2-21)
   — Odometer (P.2-9)
3. Warning and indicator lights (P.2-13)
4. Speedometer (P.2-9)
5. Engine coolant temperature gauge (P.2-10)
6. Fuel gauge (P.2-11)

The view of the meter screen can be changed. (See "Changing the meter screen view (models with full-screen display)" (P.2-21).)

ENGINE COMPARTMENT

PR25DD ENGINE MODEL



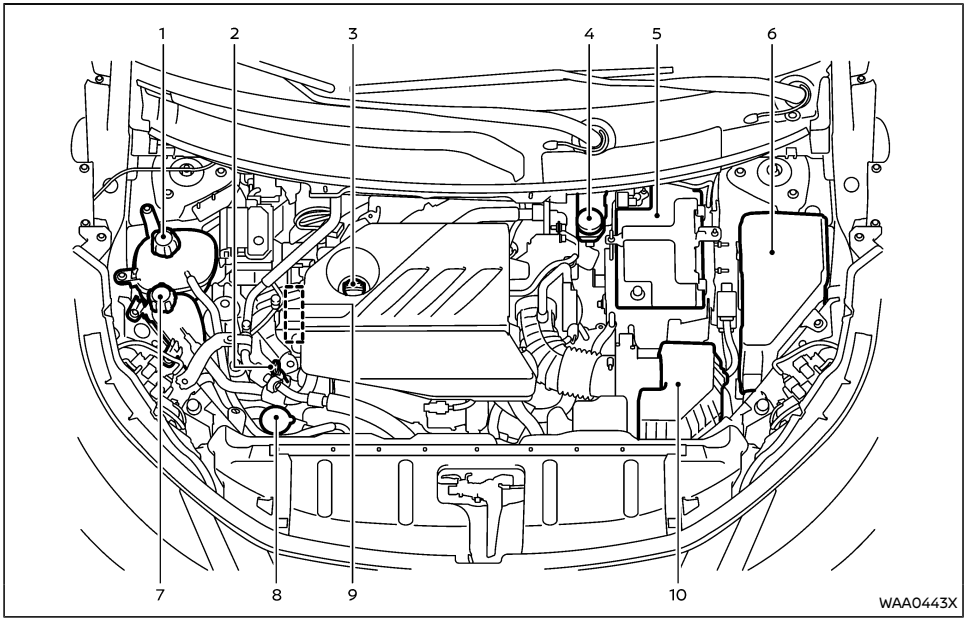
1. Engine coolant reservoir (P.8-7)
2. Engine oil filler cap (P.8-10)
3. Engine oil dipstick (P.8-9)
4. Brake fluid reservoir* (P.8-14)
5. Battery (P.8-18)
6. Fuse/fusible link box (P.8-21)
7. Window washer fluid reservoir (P.8-17)
8. Drive belt (P.8-12)
9. Air cleaner (P.8-15)

*: The layout illustrated is for the Left-Hand Drive (LHD) models. On the Right-Hand Drive (RHD) models, the brake fluid reservoir is located on the opposite side.

NOTE:

Your vehicle may not be equipped with an engine cover.

KR15DDT ENGINE MODEL



1. Engine coolant reservoir (P.8-7)
2. Engine oil dipstick (P.8-9)
3. Engine oil filler cap (P.8-10)
4. Brake fluid reservoir* (P.8-14)
5. Battery (P.8-18)
6. Fuse/fusible link box (P.8-21)
7. Intercooler coolant reservoir (P.8-8)
8. Window washer fluid reservoir (P.8-17)
9. Drive belt (P.8-12)
10. Air cleaner (P.8-15)

*: The layout illustrated is for the Left-Hand Drive (LHD) models. On the Right-Hand Drive (RHD) models, the brake fluid reservoir is located on the opposite side.

NOTE:

Your vehicle may not be equipped with an engine cover.

MEMO

1 Safety — seats, seat belts and supplemental restraint system

Seats 1-2
- Front seats 1-2
- Second row seats 1-6
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- Armrest 1-9

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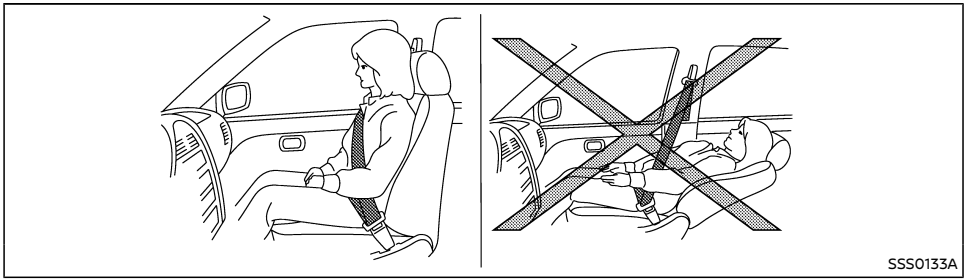
SEATS


SSS0133A

WARNING:

- **Do not drive and/or ride in the vehicle with the seatback reclined. This can be dangerous. The shoulder belt will not be properly against the body. In an accident, you and your passengers could be thrown into the shoulder belt and receive neck or other serious injuries. You and your passengers could also slide under the lap belt and receive serious injuries.**
- **For the most effective protection while the vehicle is in motion, the seatback should be upright. Always sit well back and upright in the seat and adjust the seat properly. (See "Seat belts" (P.1-12).)**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

CAUTION:

When adjusting the seat positions, be sure not to contact any moving parts to avoid possible injuries and/or damages.

FRONT SEATS

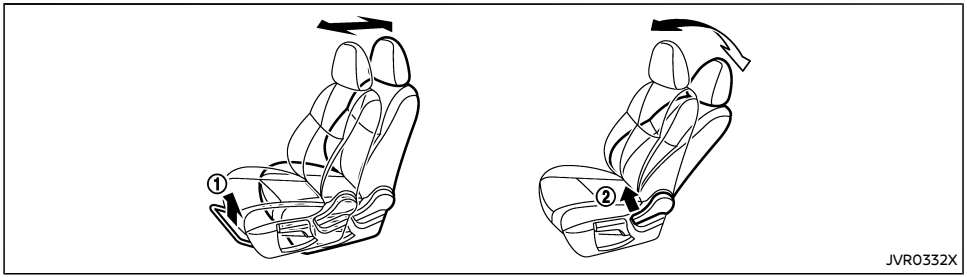
WARNING:

Do not adjust the driver's seat while driving so that full attention may be given to vehicle operation.

Manual seat adjustment

WARNING:

After adjusting a seat, gently shake the seat to confirm that the seat is locked securely. If the seat is not locked securely, it may move suddenly and could cause the loss of control of the vehicle.



Forward and backward:

1. Pull up the adjusting lever ①.
2. Slide the seat to the desired position.
3. Release the adjusting lever to lock the seat in position.

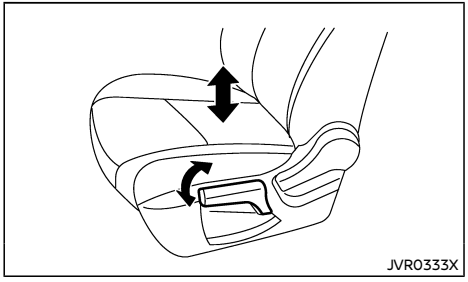
Reclining:

1. Pull up the adjusting lever ②.
2. Tilt the seatback to the desired position.
3. Release the adjusting lever to lock the seatback in position.

The reclining feature allows the adjustment of the seatback for occupants of different sizes to help obtain the proper seat belt fit. (See "Seat belts" (P.1-12).)

The seatback may be reclined to allow occupants to rest when the vehicle is parked.

Seat lifter (if equipped):



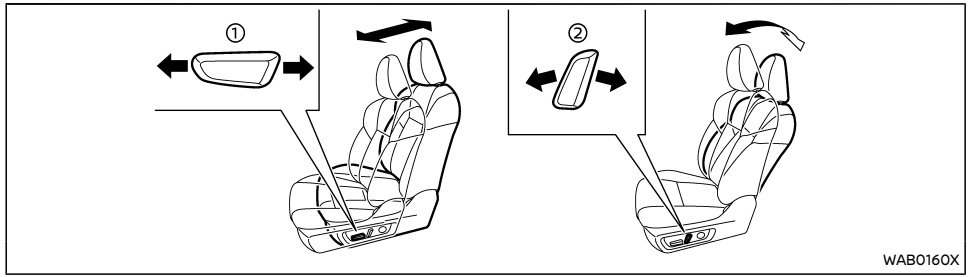
Pull up or push down the adjusting lever to adjust the seat height until the desired position is achieved.

Power seat adjustment

Operating tips:

- The power seat motor has an auto-reset overload protection circuit. If the motor stops during the seat adjustment, wait 30 seconds, then reactivate the switch.
- To avoid discharge of the battery, do not operate the power seats for a long period of time when the engine is not running.

See "Memory seat" (P.3-35) for the seat position memory function.



Forward and backward:

Move the adjusting switch as shown ① to the desired position.

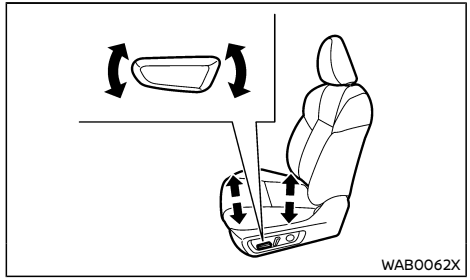
Reclining:

Move the adjusting switch as shown ② to the desired position.

The reclining feature allows the adjustment of the seatback for occupants of different sizes to help obtain the proper seat belt fit. (See "Seat belts" (P.1-12).)

The seatback may be reclined to allow occupants to rest when the vehicle is parked.

Seat lifter (if equipped):

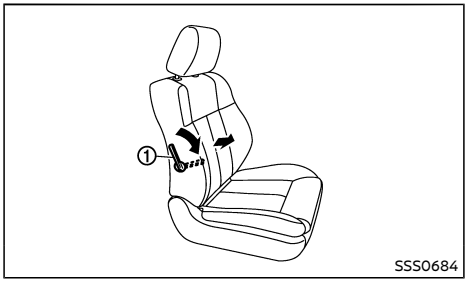


Move the switch as shown to adjust the angle of the front portion or height of the seat.

Lumbar support (if equipped)

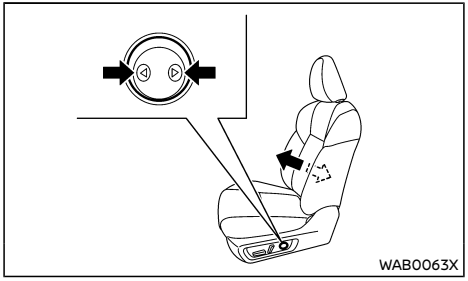
The lumbar support feature provides lower back support to the driver and front passenger (if equipped).

Manual adjustment (if equipped):



Pull or push the adjusting lever ① to adjust the seat lumbar area until the desired position is achieved.

Power adjustment (if equipped):



Push the adjusting switch as shown to adjust the seat lumbar area until the desired position is achieved.

NOTE:

The motor of the lumbar support will continue to run while the switch is pushed even after full travel in both directions is achieved.

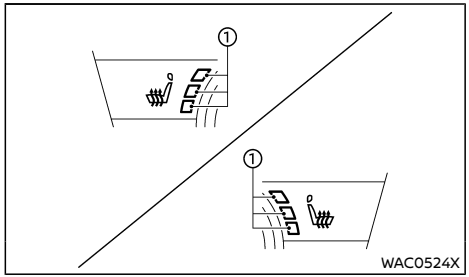
Heated seats (if equipped)

WARNING:

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

CAUTION:

- **The battery could run down if the seat heater is operated while the engine is not running.**
- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, non-genuine seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, thinner, or any similar materials.**
- **If any malfunctions are found or the heated seat does not operate properly, turn the switch off and have the system checked by a NISSAN dealer.**



The front seats are warmed by built-in heaters. The switches are located on the instrument panel and can be operated independently of each other.

Operation with switch:

1. Start the engine.
2. Push the heated seat switch and select the desired heat range.
   - For high heat, push the switch once.
   - For medium heat, push the switch twice.
   - For low heat, push the switch three times.
   - The indicator light ① on the switch will illuminate depending on the heat level when the heater is on.
3. To turn off the heater, push the heated seat switch until the indicator light turns off.

   The heater is controlled by a control module, automatically adjusting the heat level to maintain comfort according to the selected heat range.

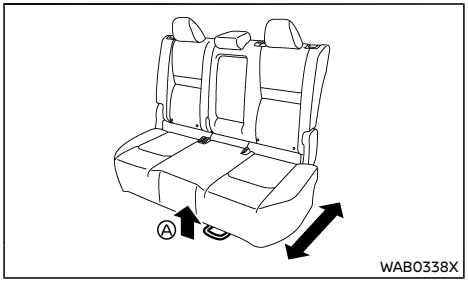
   The indicator light will remain on as long as the switch is on.

   When the vehicle's interior is warmed, or before you leave the vehicle, be sure to turn

off the seat heater.

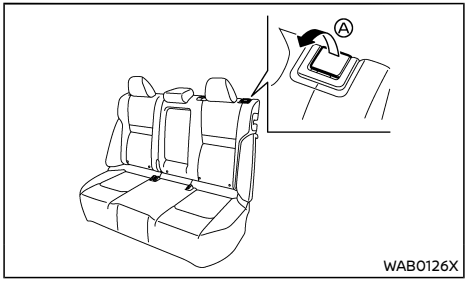
SECOND ROW SEATS

Forward and backward (if equipped)



1. Pull up the adjusting lever Ⓐ.
2. Slide the seat to the desired position.
3. Release the adjusting lever Ⓐ to lock the seat in position.

Reclining



1. Pull up the lever Ⓐ.
2. Tilt the seatback to the desired position.
3. Release the lever Ⓐ to lock the seatback in position.

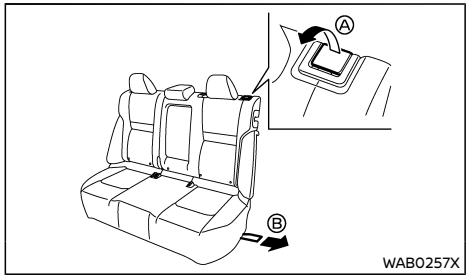
WARNING:

- **After adjustment, gently rock in the seat to make sure it is securely locked.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly. (See "Precautions on seat belt usage" (P.1-12).)**

Folding

Before folding the second row seats

- Secure the outer seat belt on the seat belt hook. (See "Seat belt hooks" (P.1-16).)
- If the second row seat is equipped with the head restraints, slide the front seat forward to make enough room behind the seat so that the second row seatback can be folded flat.
- Remove drink containers from the second row cup holder.



To fold down the seatback

- Two row model: Pull up the lever Ⓐ and fold the seatback.
- Three row model: Pull the strap Ⓑ on the lower side of the outboard seats to fold the seatback.

To return the seatback

To return the seatback to a seating position, raise the seatback until it latches in place.

When returning the seatback, make sure that the seat belts are not interfering with the seatback latch mechanism.

WARNING:

- **Never allow anyone to ride in the cargo area or on the second row seats when they are in the fold-down position. In a collision, people riding in these areas without proper restraints are more likely to be seriously injured or killed.**
- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

- **Do not allow more than one person to use the same seat belt.**
- **Do not fold down the second row seats when occupants are in the second row seat area or any luggage is on the second row seats.**
  - **— Make sure that the seat path is clear before moving the seat.**
  - **— Be careful not to allow hands or feet to get caught or pinched in the seat.**
- **Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Always replace and adjust them properly if they have been removed for any reason.**
- **If the head restraints are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

Walk-in mechanism (Three row model)

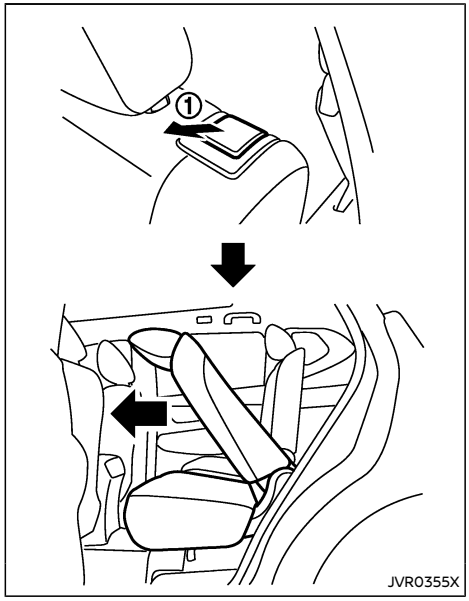
The second row seats can tilt and slide for easy entry/exit to/from the third row seats.

WARNING:

After operating the walk-in mechanism, be sure to return the seat to the rearmost position and then tilt up the seatback until it latches.

CAUTION:

- **When operating the walk-in mechanism, push and hold the seatback and operate slowly. If the seatback is tilted down quickly and then allowed to slide, there is a risk that it could contact your face or other parts of your body, or pinch your hand or foot, causing injury.**
- **When operating the walk-in mechanism, be sure not to contact any moving parts to avoid possible injuries and/or damage.**
- **When operating the walk-in mechanism, be sure that the second row seats are not occupied by passengers and/or any objects to avoid possible injuries and/or damage.**
- **Do not operate the walk-in mechanism with objects, drinks, etc. on the seat. This may cause objects to break or cause the passenger room to be soiled.**



1. Pull the lever ① to tilt down the seatback.
2. Slide the seat forward.
3. When returning the seat to its original position, slide the seat backward, tilt the seatback up and then secure it in place.

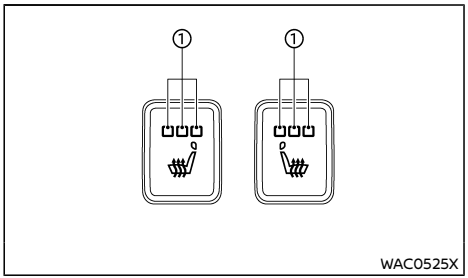
Heated seats (if equipped)

WARNING:

Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in body parts that contact the seat. Use of the seat heater by such people could result in serious injury.

CAUTION:

- **The battery could run down if the seat heater is operated while the engine is not running.**
- **Do not use the seat heater for extended periods or when no one is using the seat.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, non-genuine seat cover, etc. Otherwise, the seat may become overheated.**
- **Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use gasoline, thinner, or any similar materials.**
- **If any malfunctions are found or the heated seat does not operate properly, turn the switch off and have the system checked by a NISSAN dealer.**



The second row seats are warmed by built-in heaters. The switches are located on the back of the center console and can be operated independently of each other.

Operation with switch:

1. Start the engine.
2. Push the heated seat switch and select the desired heat range.
   - For high heat, push the switch once.
   - For medium heat, push the switch twice.
   - For low heat, push the switch three times.
   - The indicator light ① on the switch will illuminate depending on the heat level when the heater is on.
3. To turn off the heater, push the heated seat switch until the indicator light turns off.

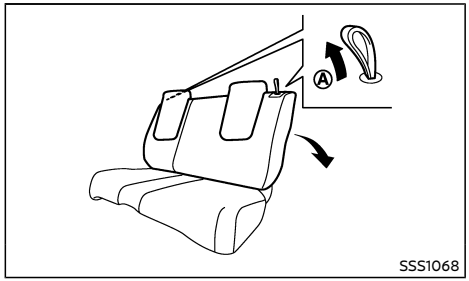
   The heater is controlled by a control module, automatically adjusting the heat level to maintain comfort according to the selected heat range.

   The indicator light will remain on as long as the switch is on.

   When the vehicle's interior is warmed, or before you leave the vehicle, be sure to turn off the seat heater.

THIRD ROW SEATS (if equipped)

Reclining



Pull the strap Ⓐ and position the seatback at the desired angle. Release the strap after positioning the seat at the desired angle.

The reclining feature allows adjustment of the seatback for occupants of different sizes to help obtain proper seat belt fit. (See "Seat belts" (P.1-12).) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.

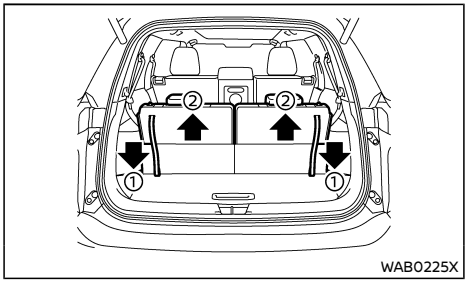
WARNING:

- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and**

upright in the seat with both feet on the floor and adjust the seat belt properly. See "Precautions on seat belt usage" (P.1-12).

- **After adjustment, check to be sure the seat is securely locked.**

Folding



WAB0225X

Before folding the third row seats, secure the outer seat belt on the seat belt hook. (See "Seat belt hooks" (P.1-16).)

To fold the third row seats flat for maximum cargo capacity:

1. Make sure the head restraints are all the way down.
2. Pull the strap ① to release the seat.
3. Once released, push the seatback forward ② .

To return the third row seats to a seating position:

Use the pull straps ① to raise each seatback. Pull back until the seatback latches into position. Make sure to properly raise each seatback to an upright and secured position.

WARNING:

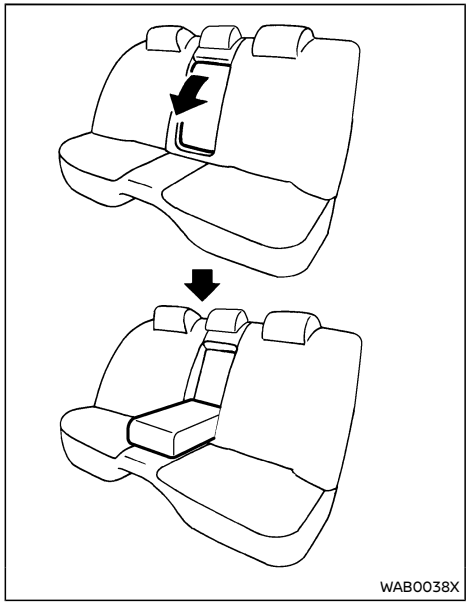
- **Never allow anyone to ride in the cargo area or on the third row seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury or death in an accident or sudden stop.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.**
- **When the seat is returned to the normal seating position, the head restraints must be returned to the upright position to properly protect vehicle occupants.**

ARMREST

Second row seat

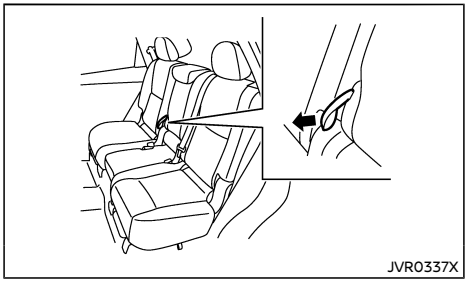
The center seatback can be folded to make the armrest.

Two row model:


WAB0038X

Fold down the seatback until it is horizontal.

Three row model:



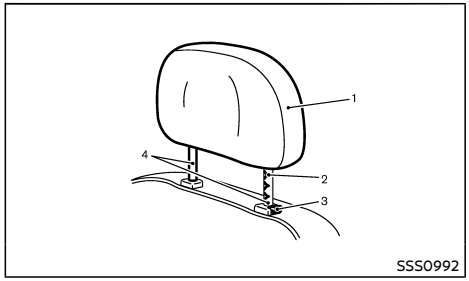
Pull the strap to unlatch the seatback and fold it down until it is horizontal.

WARNING:

Head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjustable head restraints must be adjusted properly, as specified in this section. Check the adjustment after someone else uses the seat. Do not attach anything to the head restraint stalks or remove the head restraint. Do not use the seat if the head restraint has been removed. If the head restraint was removed, reinstall and properly adjust the head restraint before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the head restraint. This may increase the risk of serious injury or death in a collision.

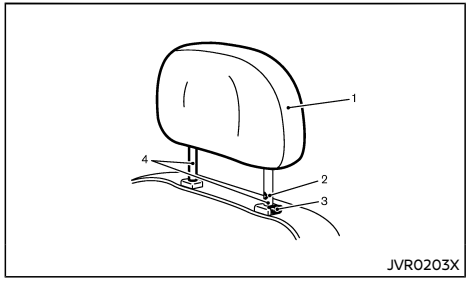
- Your vehicle is equipped with a head restraint that may be integrated, adjustable or non-adjustable.
- Adjustable head restraints have multiple notches along the stalk to lock them in a desired adjustment position.
- The non-adjustable head restraints have a single locking notch to secure them to the seat frame.
- Proper Adjustment:
  - For the adjustable type, align the head restraint so the center of your ear is approximately level with the center of the head restraint.
  - If your ear position is still higher than the recommended alignment, place the head restraint at the highest position.
- If the head restraint has been removed, ensure that it is reinstalled and locked in place before riding in that designated seating position.

ADJUSTABLE HEAD RESTRAINT COMPONENTS



1. Removable head restraint
2. Multiple notches
3. Lock knob
4. Stalks

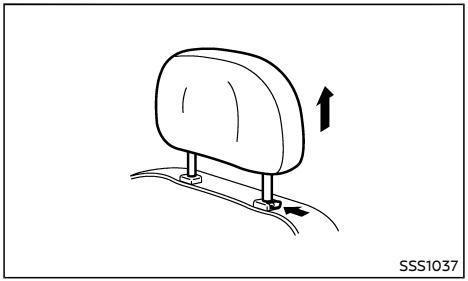
NON-ADJUSTABLE HEAD RESTRAINT COMPONENTS



1. Removable head restraint

2. Single notch
3. Lock knob
4. Stalks

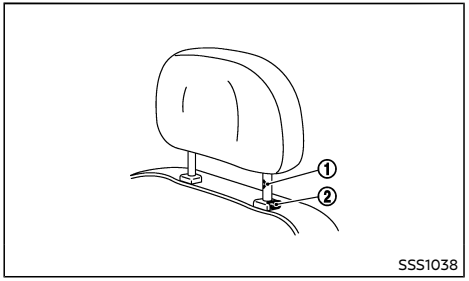
REMOVE


SSS1037

Use the following procedure to remove the head restraint.

1. Pull the head restraint up to the highest position.
2. Push and hold the lock knob.
3. Remove the head restraint from the seat.
4. Store the head restraint properly in a secure place so it is not loose in the vehicle.
5. Reinstall and properly adjust the head restraint before an occupant uses the seating position.

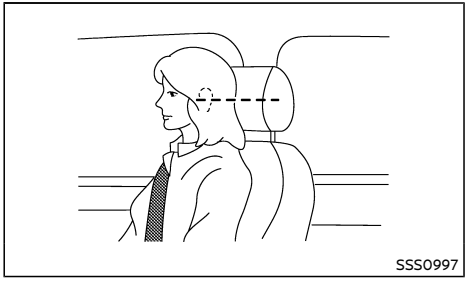
INSTALL



SSS1038

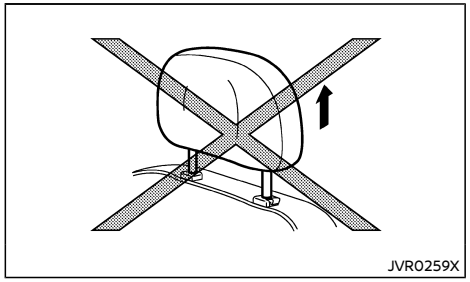
1. Align the head restraint stalks with the holes in the seat. Make sure that the head restraint is facing the correct direction. The stalk with the adjustment notch ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint down.
3. Properly adjust the head restraint before an occupant uses the seating position.

ADJUST


SSS0997

For adjustable head restraint

Adjust the head restraint so the center is level with the center of your ears. If your ear position is still higher than the recommended alignment, place the head restraint at the highest position.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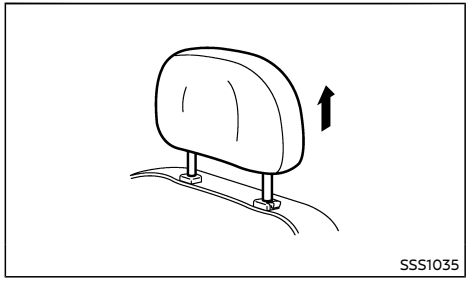
For non-adjustable head restraint

Make sure the head restraint is positioned from the stored position or any non-latch position so the lock knob is engaged in the notch before riding in that designated seating position.

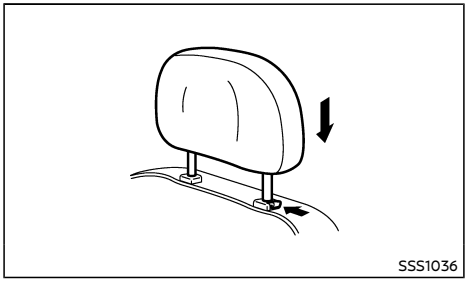
Raise


SSS1035

To raise the head restraint, pull it up.

Make sure the head restraint is positioned from the stored position or any non-latch position so the lock knob is engaged in the notch before riding in that designated seating position.

Lower

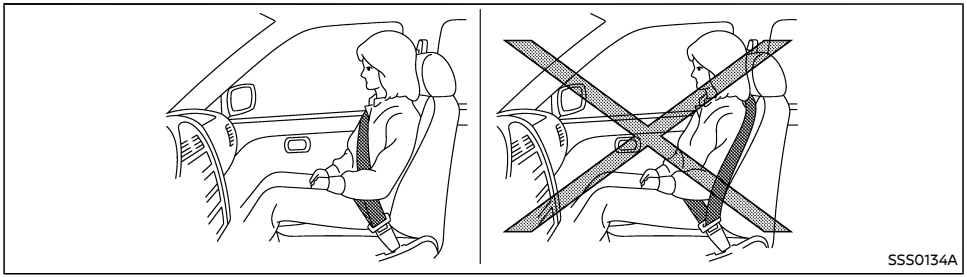


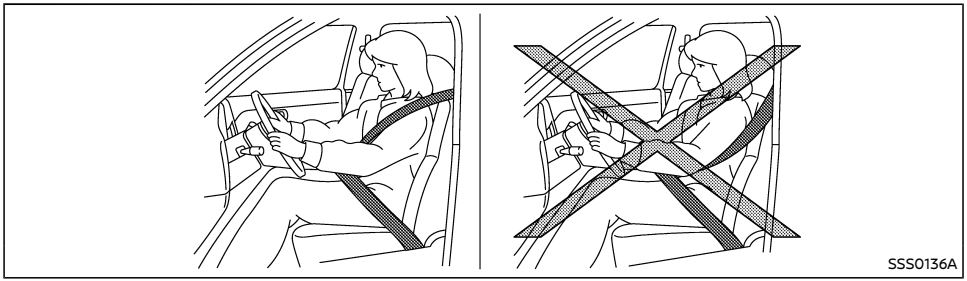
To lower, push and hold the lock knob and push the head restraint down.

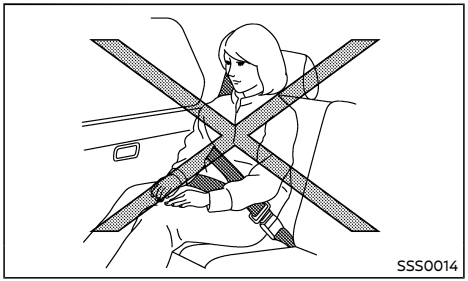
Make sure the head restraint is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

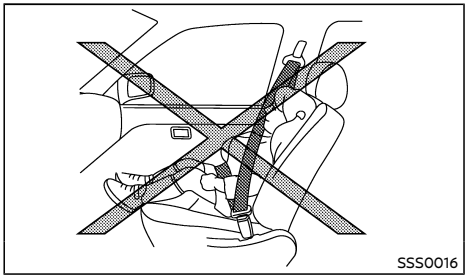
PRECAUTIONS ON SEAT BELT USAGE

If you are wearing the seat belt properly adjusted and sitting upright and well back in the seat, chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes the supplemental air bag systems.


SSS0134A


SSS0136A


SSS0014


SSS0016

WARNING:

- **Seatbelts are designed to bear upon the bony structure of the body, and should be worn low across the front of the pelvis or the pelvis, chest and shoulders, as applicable; wearing the lap section of the belt across the abdominal area must be avoided. Serious injury may occur if a seat belt is not worn properly.**
- **Position the lap belt as low and snug as possible around the hips, not the waist. A lap belt worn too high could increase the risk of internal injuries in an accident.**
- **Do not allow more than one person to use the same seat belt. Each belt assembly must only be used by one occupant; it is dangerous to put a belt around a child being carried on the occupant's lap.**
- **Never carry more people in the vehicle than there are seat belts.**
- **Never wear seat belts inside out. Belts should not be worn with straps twisted. Doing so may reduce their effectiveness.**
- **Seatbelts should be adjusted as firmly as possible, consistent with comfort, to provide the protection for which they have been designed. A slack belt will greatly reduce the protection afforded to the wearer.**
- **Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint system.**
- **Do not put the belt behind your back or under your arm. Always route the shoulder belt over your shoulder and across your chest. The belt should be**

away from your face and neck, but not falling off your shoulder. Serious injury may occur if a seat belt is not worn properly.

- **No modifications or additions should be made by the user which will either prevent the seat belt adjusting devices from operating to remove slack, or prevent the seat belt assembly from being adjusted to remove slack.**
- **Care should be taken to avoid contamination of the webbing with polishes, oils and chemicals, and particularly battery acid. Cleaning may safely be carried out using mild soap and water. The belt should be replaced if webbing becomes frayed, contaminated or damaged.**
- **All seat belt assemblies including retractors and attaching hardware should be inspected after any collision by a NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and, when necessary, replaced if either damage or improper operation is noted.**
- **It is essential to replace the entire assembly after it has been worn in a severe impact even if damage to the assembly is not obvious.**
- **Once the pre-tensioner seat belt has activated, it cannot be reused. It must be replaced together with the retractor. Contact a NISSAN dealer.**
- **Removal and installation of the pre-tensioner seat belt system components should be done by a NISSAN dealer.**

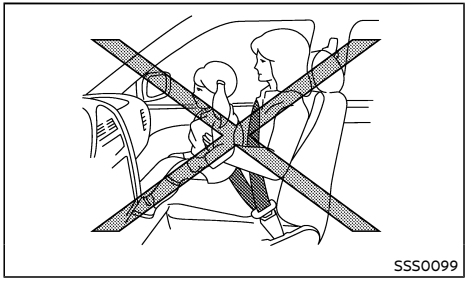
CHILD SAFETY

WARNING:

- **Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hipbones. In an accident, an improperly fitted seat belt could cause serious or fatal injury.**
- **Always use an appropriate child restraint system.**

Children need adults to help protect them. They need to be properly restrained. The proper restraint depends on the child's size.

Infants and small children


SSS0099

NISSAN recommends that infants and small children be seated in a child restraint system. You should choose a child restraint system that fits your vehicle and the child, and always follow the manufacturer's instructions for installation and use.

Large children

WARNING:

- **Never allow children to stand or kneel on any seats.**
- **Never allow children in the cargo areas while the vehicle is moving. A child could be seriously injured in an accident or sudden stop.**

Children who are too large for a child restraint system should be seated and restrained by the seat belts that are provided.

If the child's seating position has a shoulder belt that fits close to the face or neck, the use of a booster seat (commercially available) may help overcome this. The booster seat should raise the child so that the shoulder belt is properly positioned across the top, middle portion of the shoulder and the lap belt is low on the hips. The booster seat should also fit the vehicle seat. Once the child has grown so that the shoulder belt is no longer on or near the face or neck of the child, use the shoulder belt without the booster seat. In addition, there are many types of child restraint systems available for larger children that should be used for maximum protection.

PREGNANT WOMEN

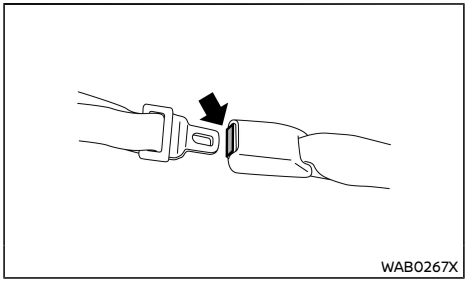
NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never put the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

INJURED PERSONS

NISSAN recommends that injured persons use seat belts. Contact your doctor for specific recommendations.

CENTER MARK ON SEAT BELTS

Selecting correct set of seat belts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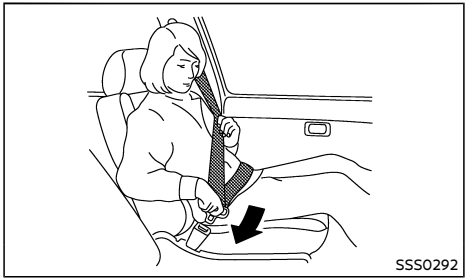
The center seat belt buckle is identified by the CENTER mark. The center seat belt tongue can be fastened only into the center seat belt buckle.

THREE-POINT TYPE SEAT BELTS


SSS0292

WARNING:

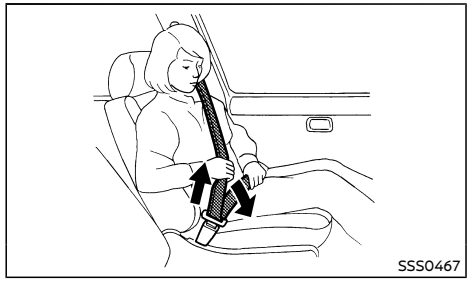
Every person who drives or rides in this vehicle should use a seat belt at all times.

Fastening seat belts

WARNING:

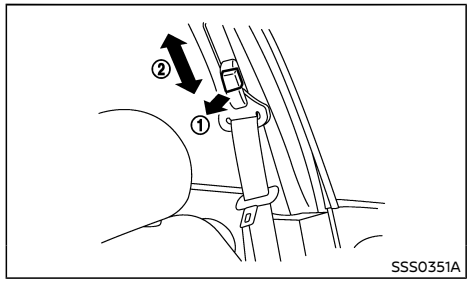
The seatback should not be in a reclined position any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat.

1. Adjust the seat. (See "Seats" (P.1-2).)
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.
   - **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move, and allows you some freedom of movement in the seat.**
   - **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**


SSS0467

3. Position the lap belt portion low and snug on the hips as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and is snug across your chest.

Shoulder belt height adjustment (for front seats)



SSS0351A

WARNING:

- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**
- **The shoulder belt should rest on the middle of the shoulder. It must not rest against the neck.**
- **Be sure that the seat belt is not twisted in any way.**
- **Be sure that the shoulder belt anchor is secured by trying to move the shoulder belt anchor up and down after adjustment.**

The shoulder belt anchor height should be

adjusted to the position best for you.

The belt should be away from your face and neck, but not falling off your shoulder.

To adjust, pull out the release button ① and move the shoulder belt anchor to the proper position ②, so that the belt passes over the center of the shoulder.

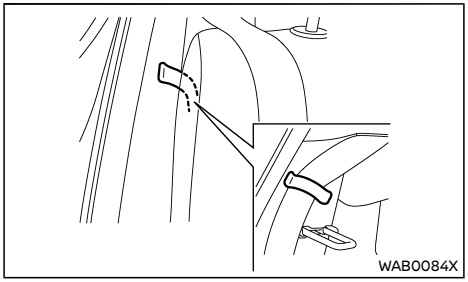
Release the button to lock the shoulder belt anchor into position.

Unfastening seat belts

Push the button on the buckle. The seat belt automatically retracts.

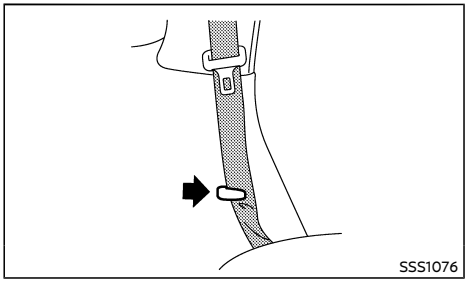
Seat belt hooks

Second row seat:



When folding down the second row seats, hook the second row outer seat belts on the seat belt hooks.

Third row seat (if equipped):



When folding down the third row seats, hook the third row seat belts on the seat belt hooks.

Checking seat belt operation

Seat belt retractors are designed to lock seat belt movement:

- When the seat belt is pulled quickly from the retractor.
- When the vehicle slows down rapidly.

To increase your confidence in the seat belts, check the operation by grasping the shoulder belt and pulling forward quickly. The retractor should lock and restrict further belt movement. If the retractor does not lock during this check, contact a NISSAN dealer immediately.

SEAT BELT MAINTENANCE

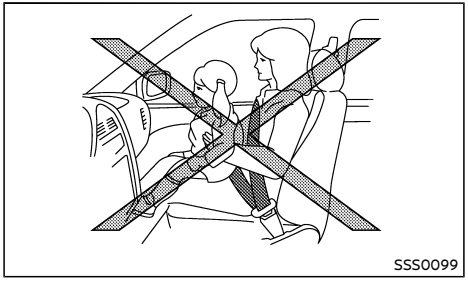
Periodically check that the seat belt and all the metal components, such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the seat belt webbing is found, the entire seat belt assembly should be replaced.

If dirt builds up in the shoulder belt guide of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.

To clean the seat belt webbing, apply a mild soap solution or any solution recommended for cleaning upholstery or carpet. Then wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.

CHILD RESTRAINTS

PRECAUTIONS ON CHILD RESTRAINT USAGE


SSS0099

WARNING:

- **Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint can result in serious injury or death.**
- **Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.**
- **NISSAN recommends that the child restraints be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.**
- **Improper use or improper installation of a child restraint can increase the risk or severity of injury for both the child and other occupants of the vehicle and can lead to serious injury or death in an accident.**
- **Follow all of the child restraint manufacturer's instructions for installation and use. When purchasing a child restraint, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraint in your vehicle.**
- **The direction of the child restraint, either front-facing or rear-facing, depends on the type of the child restraint and the size of the child. Refer to the child restraint manufacturer's instructions for details.**
- **After attaching a child restraint, test it before you place the child in it. Push it from side to side and tug it forward to make sure that it is held securely in place. The child restraint should not move more than 25 mm (1 in). If the restraint is not secure, tighten the belt as necessary, or install the restraint in another seat and test it again.**
- **When the child restraint is not in use, keep it secured with the ISOFIX child restraint system or a seat belt to prevent it from being thrown around in case of a sudden stop or accident.**
- **Adjustable seatbacks should be positioned to ensure full contact between child restraint and seatback.**
- **Never install a rear-facing child restraint on the front passenger's seat when the front passenger's air bag is available. Supplemental front-impact air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front-impact air bags in an accident and could seriously injure or kill your child.**
- **If the seat belt in the position where a child restraint is installed requires a locking device and if it is not used, injuries could result from a child restraint tipping over during normal vehicle braking or cornering.**

CAUTION:

Remember that a child restraint left in a closed vehicle can become very hot. Check the seating surface and buckles before placing your child in a child restraint.

NISSAN recommends that infants and small children be seated in a child restraint. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use. In addition, there are many types of child restraints available for larger children that should be used for maximum protection.

UNIVERSAL CHILD RESTRAINTS FOR FRONT SEAT AND REAR SEATS

NOTE:

Universal child restraints approved to UN Regulation No.44 (UN R44) or UN Regulation No. 129 (UN R129) are clearly marked "Universal".

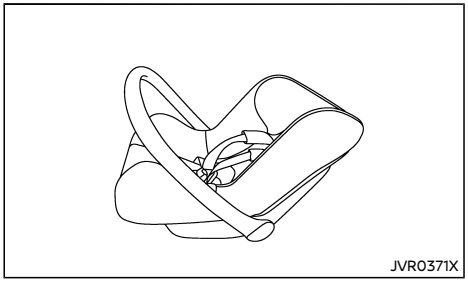
When selecting any child restraint, keep the following points in mind:

- Choose a child restraint that complies with the UN R44 or UN R129.
- Place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Always follow all of the recommended procedures.
- Check the child restraint in your vehicle to be sure it is compatible with vehicle's seat belt system.
- Refer to the tables later in this section for a list of the recommended fitment positions and the approved child restraints for your vehicle.

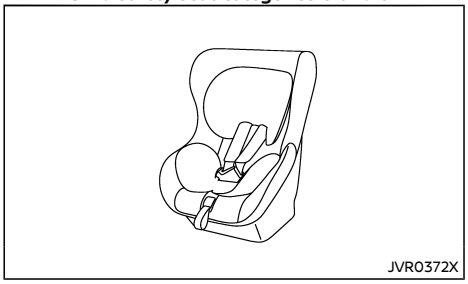
Mass group of child seat

Mass group	Child's weight
Group 0	up to 10 kg
Group 0+	up to 13 kg
Group I	9 to 18 kg
Group II	15 to 25 kg
Group III	22 to 36 kg

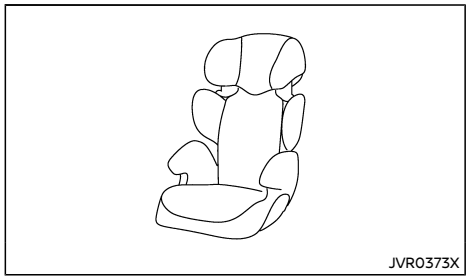
Kind of child seats (example):



Child safety seat categories 0 and 0+



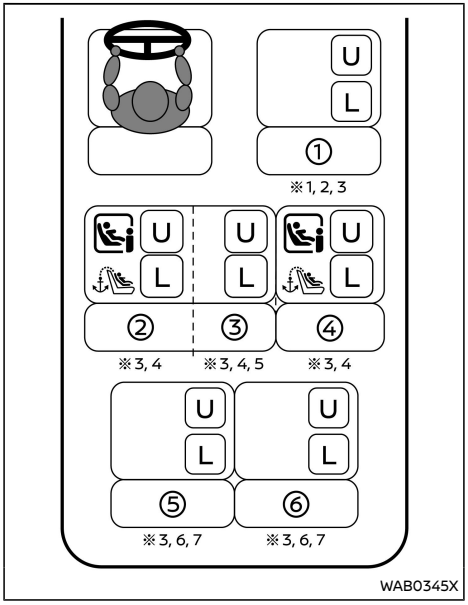
Child safety seat categories 0+ and I



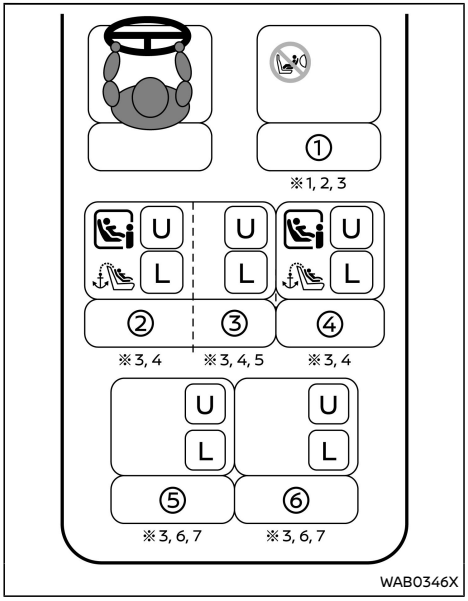
Child safety seat categories II and III

Selecting the child restraint system for each seating position (for Europe, Egypt, India and the Middle East)

A child restraint system that can be used differs according to the seating position.



<PASSENGER AIR BAG OFF> indicator illuminated (if equipped)



<PASSENGER AIR BAG ON> indicator illuminated (if equipped)

①	Front passenger seat
②	Row 2: left hand outboard seat
③	Row 2: center seat
④	Row 2: right hand outboard seat
⑤	Row 3: left seat (for three row model)
⑥	Row 3: right seat (for three row model)
U	Suitable for child safety seats that are fixed with vehicle seatbelt
	Suitable for i-Size child safety seats
	Prohibit installation of rearward facing child restraint system
	Seats equipped with top tether anchor
L	Suitable for child safety seats listed in the attached list

*1: Adjust the seat slide to the rearmost position.

*2: Adjust the seat lifter (if equipped) to the uppermost position.

*3: Move the head restraint to the uppermost position or remove it (and store securely) if there is any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

*4: Adjust the front seat slide to the center position.

*5: Do not install child restraints with a support leg.

*6: Adjust the second seat slide to the front most position.

*7: Adjust the second seat backrest to the first locking position.

Detailed information for child restraint system installation:

Seat position number	Front		Second row			Third row	
	①		②	③	④	⑤	⑥
	Air Bag Activation	Air Bag Deactivation	Left	Center	Right	Left	Right
Seating position suitable for universal belted (Yes/No)	No	Yes	Yes	Yes	Yes	Yes	Yes
i-Size seating position (Yes/No)	No	No	Yes	No	Yes	No	No
Seating position suitable for lateral fixture (L1/L2)	—	—	—	—	—	—	—
Largest suitable rearward facing fixture (R1/R2X/R2/R3)	—	—	R3	—	R3	—	—
Largest suitable forward facing fixture (F2X/F2/F3)	—	—	F3	—	F3	—	—
Largest suitable booster fixture (B2/B3)	—	—	B3	—	B3	—	—

List of recommended child restraints:

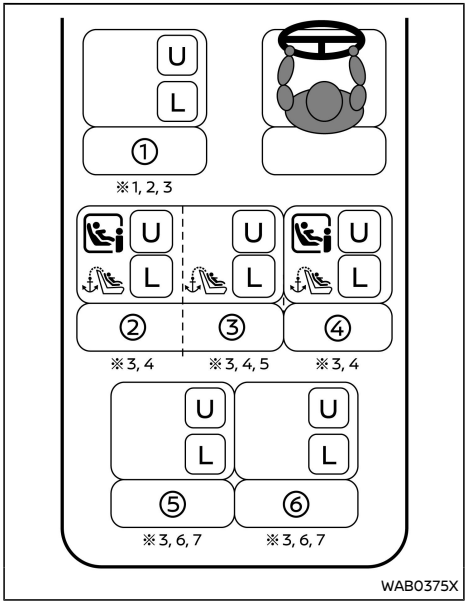
Age (approx.)	Weight (approx.)	Height (approx.)	CRS Mass Category	Recommend CRS	CRS suitable seat position						
					① Air bag Activation	①** Air bag Deactivation	②**	③**	④**	⑤**	⑥**
0 - 12 months	Up to 10 kg	< 75 cm	0	Maxi Cosi 2way Pearl + 2wayFix Base	No	No	Yes	No	Yes	No	No
0 - 18 months	Up to 13 kg	< 85 cm	0+		No	No	Yes	No	Yes	No	No
9 months - 4 years old	9 - 18 kg	76 - 105 cm	I	Britax Römer Trifix 2 i-Size	No	No	Yes	No	Yes	No	No
4 - 6 years old	15 - 25 kg	100 - 125 cm	II	Britax Römer Kidfix i-Size*	No	Yes (Belt only)	Yes	Yes (Belt only)	Yes	Yes (Belt only)	Yes (Belt only)
6 - 10 years old	22 - 36 kg	> 125 cm	III	Britax Römer Kidfix i-Size*	No	Yes (Belt only)	Yes	Yes (Belt only)	Yes	Yes (Belt only)	Yes (Belt only)

* It is recommended to use the lap belt Secure Guard, SICT and XP-Pad when using the Kidfix i-Size.

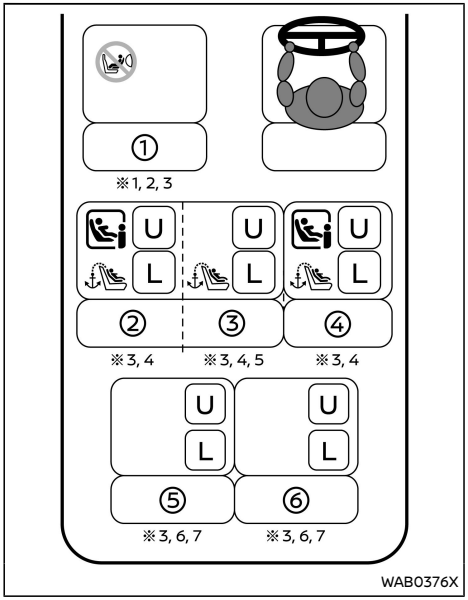
** Move the head restraint to the uppermost position or remove it (and store securely) if there is any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

Selecting the child restraint system for each seating position (for Australia)

A child restraint system that can be used differs according to the seating position.



<PASSENGER AIR BAG OFF> indicator illuminated



<PASSENGER AIR BAG ON> indicator illuminated

①	Front passenger seat
②	Row 2: left hand outboard seat
③	Row 2: center seat
④	Row 2: right hand outboard seat
⑤	Row 3: left seat (for three row model)
⑥	Row 3: right seat (for three row model)
U	Suitable for child safety seats that are fixed with vehicle seatbelt
	Suitable for i-Size child safety seats
	Installation of rear-facing child safety seats is prohibited
	Seats equipped with top tether anchor
L	Suitable for child safety seats listed in the attached list

*1: Adjust the seat slide to the rearmost position.

*2: Adjust the seat lifter (if equipped) to the uppermost position.

*3: Move the head restraint to the uppermost position or remove it (and store securely) if there is any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

*4: Adjust the front seat slide to the center position.

*5: Do not install child restraints with a support leg.

*6: Adjust the second seat slide to the front most position.

*7: Adjust the second seat backrest to the first locking position.

Detailed information for child restraint system installation:

Seat position number	Front		Second row			Third row	
	①		②	③	④	⑤	⑥
	Air Bag Activation	Air Bag Deactivation	Left	Center	Right	Left	Right
Seating position suitable for general belts (Yes/No)	No	Yes	Yes	Yes	Yes	Yes	Yes
i-Size seating position (Yes/No)	No	No	Yes	No	Yes	No	No
Seating position suitable for lateral fixtures (L1/L2)	—	—	—	—	—	—	—
Suitable maximum rear-facing fixtures (R1/R2/R2X/R3)	—	—	R3	—	R3	—	—
Suitable maximum front-facing fixtures (F2/F2X/F3)	—	—	F3	—	F3	—	—
Suitable maximum booster fixtures (B2/B3)	—	—	B3	—	B3	—	—

List of recommended child restraints:

Type		Age (Approximately)	Height (Approximately)		Recommend CRS		Actual CRS suitable seat position						
							①		②	③	④	⑤	⑥
					Universal	ISOFIX	Air bag Activation	Air bag Deactivation					
A	A1	6 months	<70 cm	Rearward	-	-	-	-	-	-	-	-	-
	A2	12 months	<80 cm	Rearward	-	-	-	-	-	-	-	-	-
	A3	6 months	<70 cm	Transversely installation	-	-	-	-	-	-	-	-	-
	A4	0-30 months		Rearward	-	-	-	-	-	-	-	-	-
B		6 months-4 years old		Forward	-	-	-	-	-	-	-	-	-
C	C1	4-10 years old		Forward	-	-	-	-	-	-	-	-	-
	C2	7-10 years old		Forward	-	-	-	-	-	-	-	-	-
D		6 months-4 years old		Forward	-	-	-	-	-	-	-	-	-
E		4-8 years old	<128 cm	Booster seat	Britax Safe n Sound Hi-Liner SG (Forward)	-	N/A	N/A	Yes	Yes	Yes	N/A	N/A
F		4-10 years old	<138 cm	Booster seat	Britax Safe n Sound Kid Guard (Forward)	-	N/A	N/A	Yes	Yes	Yes	N/A	N/A
G		6 months-8 years old		Forward	-	-	-	-	-	-	-	-	-
H		4-10 years old			-	-	-	-	-	-	-	-	-

* If you install a child restraint, remove the head restraint.

Selecting the child restraint system for each seating position (for Mexico and Latin America)

Approved child restraint positions (without ISOFIX):

The following restriction is applied when using child restraints varying by infants weight and installation position.

Mass group		Suitability				
		Front passenger seat (Air bag ON)	Front passenger seat (Air bag OFF)	Second row outer seat	Second row center seat	Third row seat
0	<10 kg	X	U *1*2*3	U *3*4	U *3*4*5	U *3*6*7
0+	<13 kg	X	U *1*2*3	U *3*4	U *3*4*5	U *3*6*7
I	9 - 18 kg	X	UF *1*2*3	UF *3*4	UF *3*4*5	UF *3*6*7
II	15 - 25 kg	X	UF *1*2*3	UF *3*4	UF *3*4*5	UF *3*6*7
III	22 - 36 kg	X	UF *1*2*3	UF *3*4	UF *3*4*5	UF *3*6*7

X: not suitable for child restraint system

U: suitable for universal category child restraint system approved for this weight group

UF: suitable for forward-facing universal category child restraint system approved for this weight group

L: suitable for particular child restraints given on attached list or vehicle list of child restraint manufacturer

*1: Adjust the seat slide to the rearmost position.

*2: Adjust the seat lifter (if equipped) to the uppermost position.

*3: Move the head restraint to the uppermost position or remove it (and store securely) if there is any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

*4: Adjust the front seat slide to the center position.

*5: Do not install child restraints with a support leg.

*6: Adjust the second seat slide to the front most position.

*7: Adjust the second seat backrest to the first locking position.

Permissible options for fitting an ISOFIX child restraint:

Mass group			Suitability			
			Front passenger seat	Second row outer seat	Second row center seat	Third row seat
Carry-cot	F	ISO/L1	X	X	X	X
	G	ISO/L2	X	X	X	X
0 (<10 kg)	E	ISO/R1	X	IL	X	X
0+ (<13 kg)	E	ISO/R1	X	IL	X	X
	D	ISO/R2	X	IL	X	X
	C	ISO/R3	X	IL	X	X
I (9 - 18 kg)	D	ISO/R2	X	IL	X	X
	C	ISO/R3	X	IL	X	X
	B	ISO/F2	X	IUF	X	X
	B1	ISO/F2X	X	IUF	X	X
	A	ISO/F3	X	IUF	X	X
II (15 - 25 kg)	—	—	X	IL	X	X
III (22 - 36 kg)	—	—	X	IL	X	X

X: not suitable for child restraint system

IUF: suitable for universal category forward facing child restraint system approved for this weight group

IL: suitable particular ISOFIX category child restraint system (CRS) given in the below list or vehicle list of child seat manufacturer.

Permissible options for fitting an i-Size child restraint:

	Seating position				
	Front passenger seat	Second row left seat	Second row center seat	Second row right seat	Third row seat
i-Size Child Restraint System	X	i-U	X	i-U	X

i-U: Suitable for i-Size "universal" Child Restraint Systems forward and rearward facing.

X: Seating position not suitable for i-Size "universal" Child Restraint Systems.

Permissible options for i-Size booster fixture:

	Seating position				
	Front passenger seat	Second row left seat	Second row center seat	Second row right seat	Third row seat
Largest suitable booster fixture (B2/B3)	—	B3	-	B3	X

List of recommended ISOFIX child restraints:

Weight group	Height (Approximately)	Facing position	Name of CRS	Fixture of CRS
0+ (<13 kg)	<85 cm	Rear facing	Cybex Sirona S i-Size	ISOFIX and support leg
I (9 - 18 kg)	76 - 105 cm	Front facing	Cybex Sirona S i-Size	ISOFIX and support leg

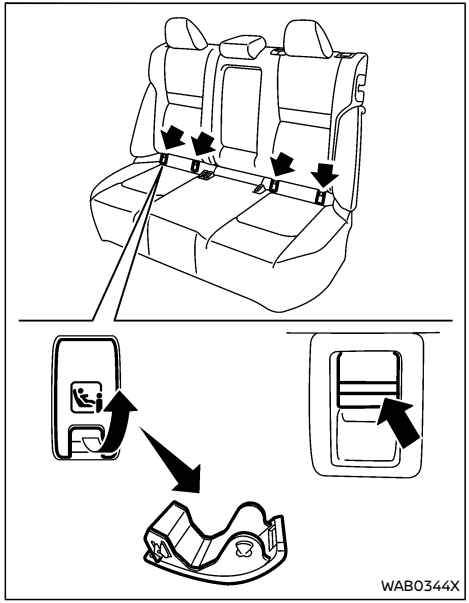
ISOFIX CHILD RESTRAINT SYSTEM (for second row seats)

Your vehicle is equipped with special anchor points that are used with ISOFIX child restraint systems.

ISOFIX lower anchor point locations

The ISOFIX anchor points are provided to install child restraints in the second row outboard seating positions only. **Do not attempt to install a child restraint in the center position using the ISOFIX anchors.**

Type A:

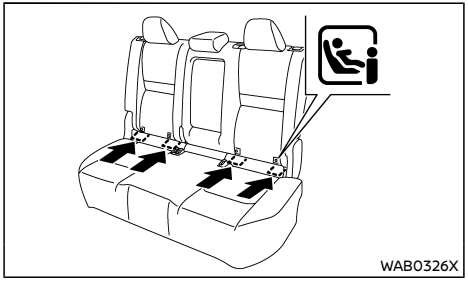


The ISOFIX lower anchor points are located under covers labelled ISOFIX at the bottom of the rear seat cushions. To access a ISOFIX lower anchor point, insert your finger into the cover and pull the cover off.

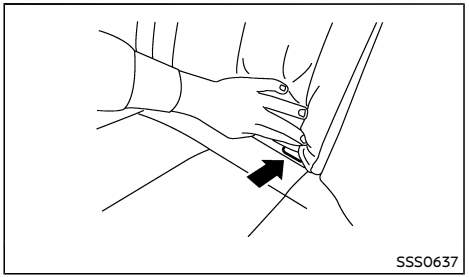
CAUTION:

Store the loose ISOFIX covers (for example, in the console box) where they will not get damaged to avoid losing them. (See "Console box" (P.2-69).)

Type B:



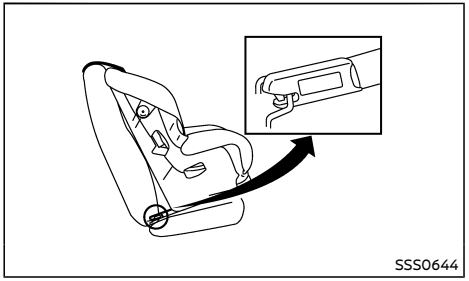
ISOFIX label location



ISOFIX lower anchor location

The ISOFIX anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the ISOFIX anchors.

ISOFIX child restraint anchor attachments



Anchor attachment

ISOFIX child restraints include two rigid attachments that can be connected to two anchors located in the seat. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Check your child restraint for a label stating that it is compatible with the ISOFIX child restraints. This information may also be in the instructions provided by the child restraint manufacturer.

ISOFIX child restraints generally require the use of a top tether strap or other anti-rotation devices such as support legs. When installing ISOFIX child restraints, carefully read and follow the instructions in this manual and those supplied with the child restraints. (See "Child restraint installation using ISOFIX (for second row seats)" (P.1-31).)

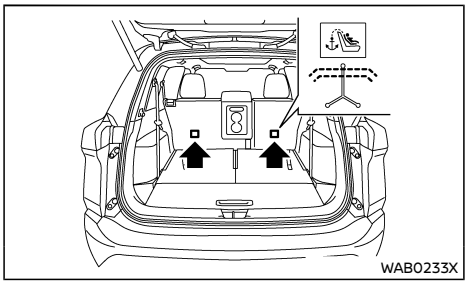
CHILD RESTRAINT ANCHORAGE (for second row seats)

Your vehicle is designed to accommodate a child restraint system on the second row seat. When installing a child restraint system, carefully read and follow the instructions in this manual and those supplied with the child restraint system.

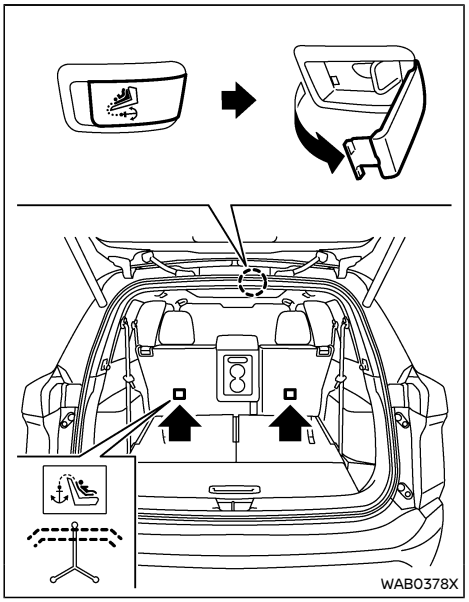
WARNING:

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**
- **The child restraint top tether strap may be damaged by contact with the cargo cover (if equipped) or items in the luggage area. Remove the cargo cover from the vehicle or secure it and any luggage. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**

Anchorage location



Type A



Type B

Anchorages are located as illustrated. Position the top tether strap over the top of the seatback and secure it to the tether anchorage that provides the straightest installation. Tighten the tether strap according to the manufacturer's instruction to remove any slack.

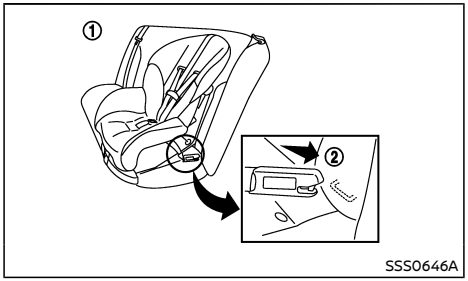
CHILD RESTRAINT INSTALLATION USING ISOFIX (for second row seats)

WARNING:

- **Attach ISOFIX child restraints only at the specified locations. For the ISOFIX lower anchor locations, see "ISOFIX child restraint system (for second row seats)" (P.1-29). If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **Do not install child restraints that require the use of a top tether strap to seating positions that do not have a top tether anchor.**
- **Do not secure a child restraint in the center rear seating position using the ISOFIX lower anchors. The child restraint will not be secured properly.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area and feeling to make sure there are no obstructions over the ISOFIX anchors, such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the ISOFIX anchors are obstructed.**
- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not be properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**

Installation on second row outboard seats

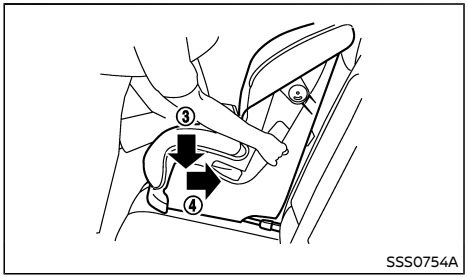
Front-facing:



Front-facing: Steps 1 and 2

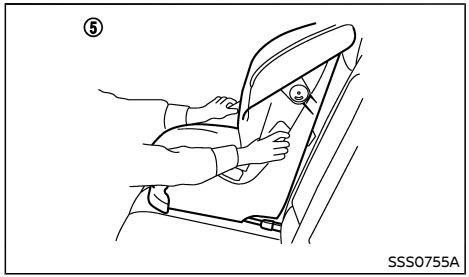
Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a front-facing child restraint on the second row outboard seats using ISOFIX:

1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.
3. The back of the child restraint should be secured against the vehicle seat back. If necessary, remove the head restraint to obtain the correct child restraint fit. (See "Head restraints" (P.1-10).) If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed. If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



Front-facing: Step 4

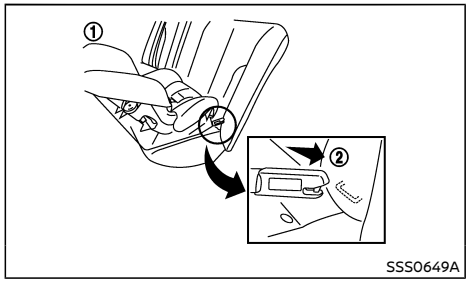
4. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback.
5. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See "Child restraint anchorage (for second row seats)" (P.1-30).)
6. If the child restraint is equipped with other anti-rotation devices such as support legs, use them instead of the top tether strap following the child restraint manufacturer's instructions.



Front-facing: Step 7

7. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
8. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 7.

Rear-facing:

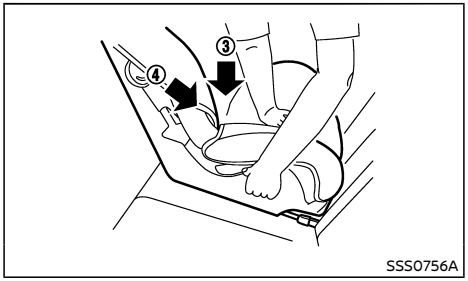


Rear-facing: Steps 1 and 2

Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a rear-facing child restraint on the rear outboard seats using

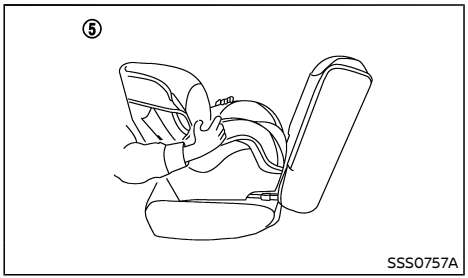
ISOFIX:

1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.



Rear-facing: Step 3

3. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback.
4. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See "Child restraint anchorage (for second row seats)" (P.1-30).)
5. If the child restraint is equipped with other anti-rotation devices such as support legs, use them instead of the top tether strap following the child restraint manufacturer's instructions.



Rear-facing: Step 6

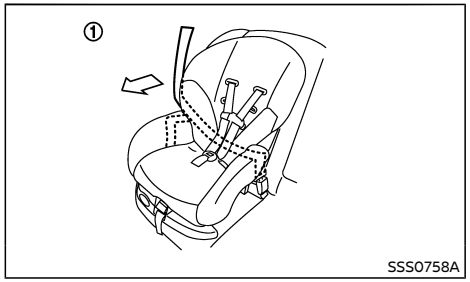
6. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
7. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 6.

CHILD RESTRAINT INSTALLATION USING THREE-POINT TYPE SEAT BELT

Installation on rear seats

If you install a child restraint on the third row seat, slide the second row seat to the frontmost position (Three row model).

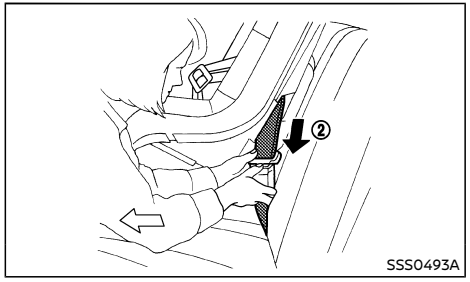
Front-facing:



Front-facing: Step 1

Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a front-facing child restraint on the rear seats using three-point type seat belt without automatic locking mode:

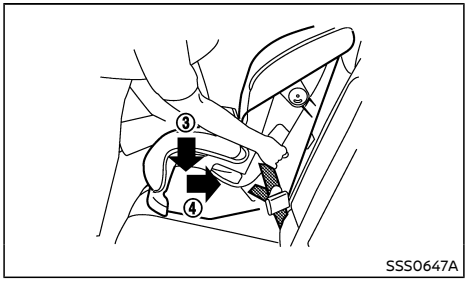
1. Position the child restraint on the seat ①.



Front-facing: Step 2

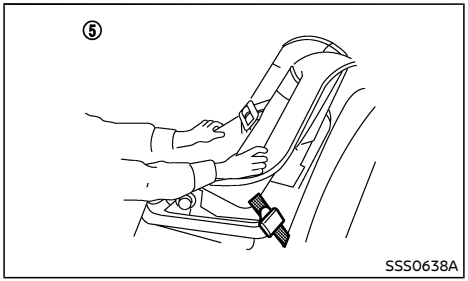
2. Route the seat belt tongue through the child restraint and insert it into the buckle ② until you hear and feel the latch engage.
3. To prevent slack in the seat belt webbing, it is necessary to secure the seat belt in place with locking devices attached to the child

restraint.



Front-facing: Step 4

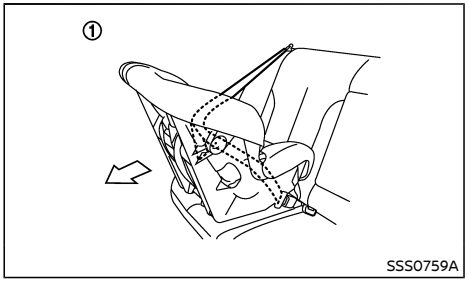
4. Remove any additional slack from the seat belt; press downward ③ and rearward ④ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt. Adjustable seatbacks should be positioned to ensure full contact between child restraint and seatback.



Front-facing: Step 5

5. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
6. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 5.

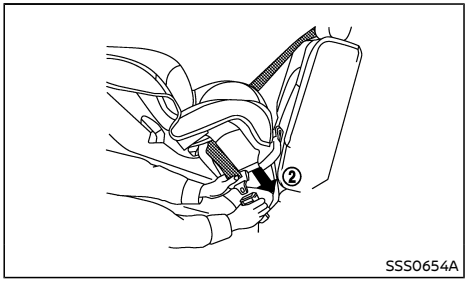
Rear-facing:



Rear-facing: Step 1

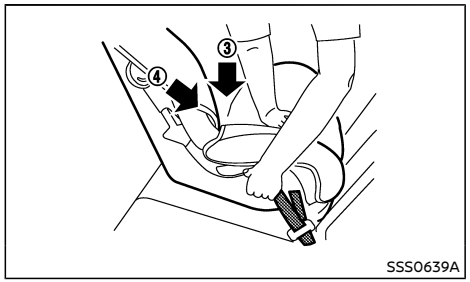
Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a rear-facing child restraint on the rear seats using three-point type seat belt without automatic locking mode:

1. Position the child restraint on the seat ①.



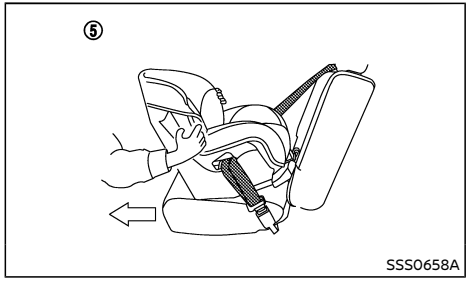
Rear-facing: Step 2

2. Route the seat belt tongue through the child restraint and insert it into the buckle ② until you hear and feel the latch engage.
3. To prevent slack in the seat belt webbing, it is necessary to secure the seat belt in place with locking devices attached to the child restraint.



Rear-facing: Step 4

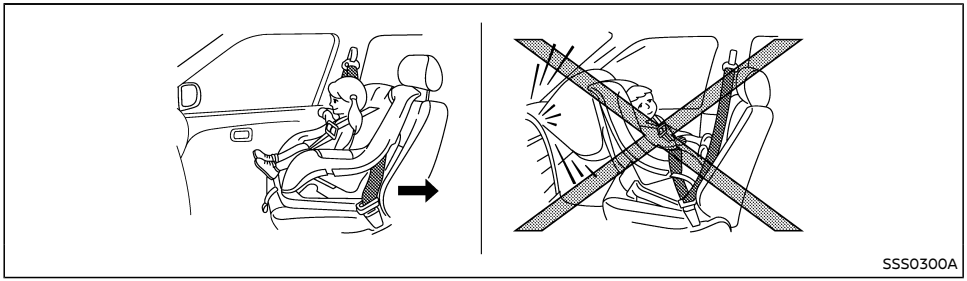
4. Remove any additional slack from the seat belt; press downward ③ and rearward ④ firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Rear-facing: Step 5

5. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
6. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 5.

Installation on front passenger's seat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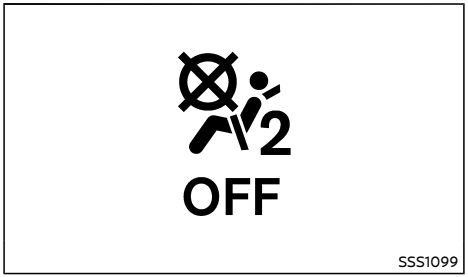
WARNING:

- **Never install a rear-facing child restraint on the front passenger's seat when the front passenger's air bag is available. Supplemental front-impact air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front-impact air bags in an accident and could seriously injure or kill your child.**
- **Never install a child restraint with a top tether strap on the front seat.**
- **NISSAN recommends that a child restraint be installed on the rear seat. However, if you must install a child restraint on the front passenger's seat, move the passenger's seat to the rearmost position.**
- **Child restraints for infants must be used in the rear-facing direction and therefore must not be used on the front passenger's seat when the front passenger's air bag is available.**
- **Failure to use the seat belts will result in the child restraint not being properly secured. It could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.**

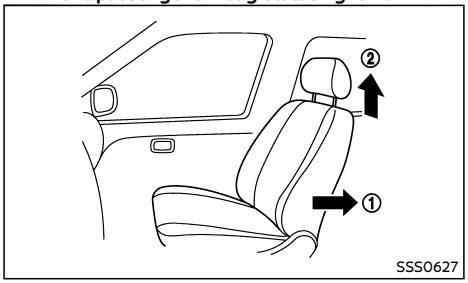
Front-facing:

Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a front-facing child restraint on the front passenger's seat using a three-point type seat belt.

Model with front passenger air bag status light: If the child restraint is installed on the front passenger seat, place the ignition switch in the "ON" position. The front passenger air bag status light <PASSENGER AIR BAG OFF>, located on the roof console, should illuminate. If this light is not illuminated, see "Supplemental Restraint System (SRS)" (P.1-37). Move the child restraint to another seating position. Have the system checked by a NISSAN dealer.



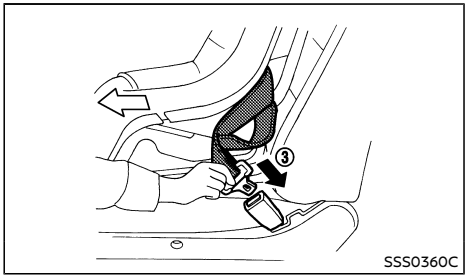
Front passenger air bag status light <OFF>



Front-facing: Steps 1 and 2

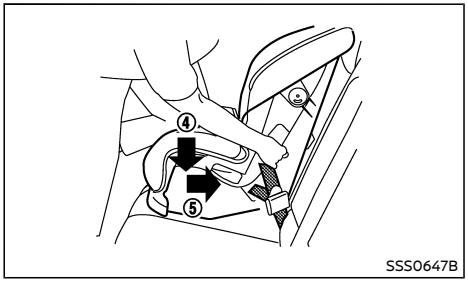
1. Move the seat to the rearmost position ①.
2. Adjust or remove the head restraint ② to obtain the correct child restraint fit.
3. Adjust the seat lifter (if equipped) to the uppermost position.
4. Position the child restraint in the seat.

   Always follow the child restraint system manufacturer's instructions for installation and use.



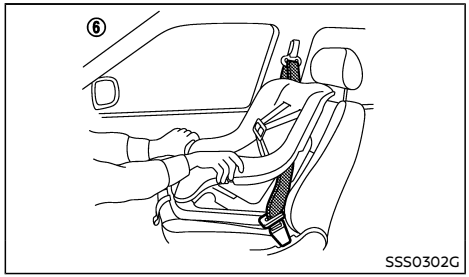
Front-facing: Step 5

5. Route the seat belt tongue through the child restraint and insert it into the buckle ③ until you hear and feel the latch engage.
6. To prevent slack in the seat belt webbing, it is necessary to secure the seat belt in place with locking devices attached to the child restraint.



Front-facing: Step 7

7. Remove any additional slack from the seat belt; press downward ④ and rearward ⑤ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



Front-facing: Step 8

8. Test the child restraint before you place the child in it ⑥. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
9. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 5 through 8.

   If the child restraint is still loose, do not use it. Please check the child restraint system manufacturer's instructions for installation and use. Seek advice from a NISSAN dealer.
10. Model with front passenger air bag status light: Place the ignition switch in the "ON" position. Check the front passenger air bag status light located on the roof console. The front passenger air bag status light (OFF) should illuminate.

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

This Supplemental Restraint System (SRS) section contains important information concerning the driver's and passenger's supplemental front-impact air bags, supplemental side-impact air bags, supplemental front central side-impact air bag (if equipped), supplemental curtain side-impact air bags and pre-tensioner seat belts.

Supplemental front-impact air bag system

This system can help cushion the impact force to the head and chest areas of the driver and/or front passenger in certain frontal collisions. The supplemental front-impact air bag is designed to inflate on the front where the vehicle is impacted.

Supplemental side-impact air bag system

This system can help cushion the impact force to the chest and pelvis areas of the driver and front passenger in certain side-impact collisions. The supplemental side-impact air bag is designed to inflate on the side where the vehicle is impacted.

Supplemental front central side-impact air bag system (if equipped)

This system can help cushion the impact force to the head area of the driver and front passenger in certain side impact collisions.

The front central side-impact air bag is designed to inflate in the front central area where the vehicle is impacted.

Supplemental curtain side-impact air bag system

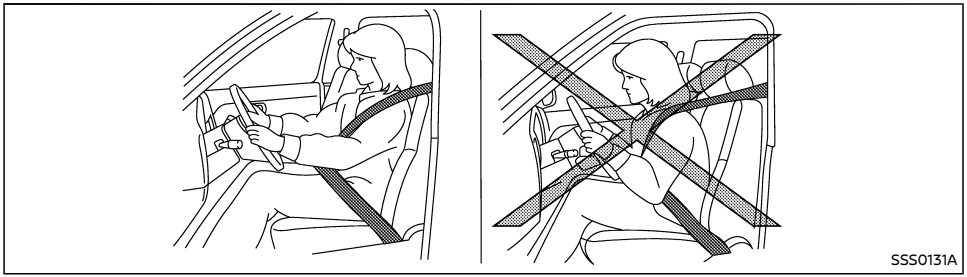
This system can help cushion the impact force to the head of the driver and passengers in front and rear outboard seating positions in certain side-impact collisions. The supplemental curtain side-impact air bag is designed to inflate on the side where the vehicle is impacted.

The SRS is designed to **supplement** the accident protection provided by the seat belts and **is not** designed to **substitute** for them. The SRS can help save lives and reduce serious injuries. However, inflating air bags may cause abrasions or other injuries. Air bags do not provide protection to the lower body. Seat belts should always be correctly worn and the occupants should always be seated a suitable distance away from the steering wheel, instrument panel and door finishers. (See "Seat belts" (P.1-12).) The air bags inflate quickly in order to help protect the occupants. The force of the air bags inflating can increase the risk of injury if the occupants are too close to, or are against, the air bag modules during inflation.

The front and side-impact air bags will deflate quickly after deployment. The front central side-impact air bag and curtain side-impact air bags will remain inflated for a short period of time.

The SRS operates only when the ignition switch is in the "ON" position.

When the ignition switch is in the "ON" position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS is operational. (See "SRS air bag warning light" (P.1-41).)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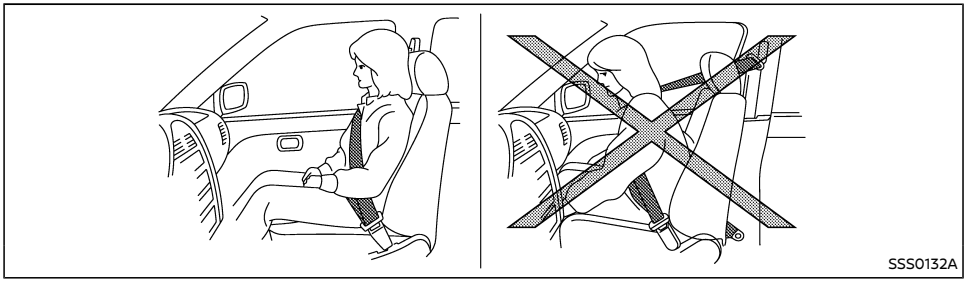
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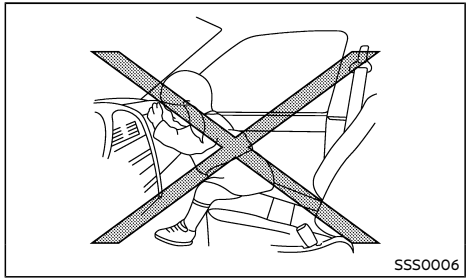
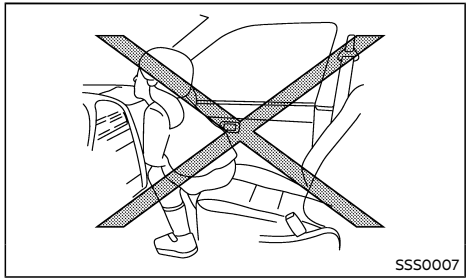
WARNING:

- **The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.**
- **The seat belts and the supplemental front-impact air bags are most effective when you are sitting well back and upright in the seat. The front-impact air bags inflate with great force. If you and your passengers are unrestrained, leaning forward, sitting sideways, or out of position in any way, you and your passengers are at greater risk of injury or death in an accident. You and your passengers may also receive serious or fatal injuries from the supplemental front-impact air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.**
- **Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk of injury if the supplemental front air bag inflates.**


SSS0006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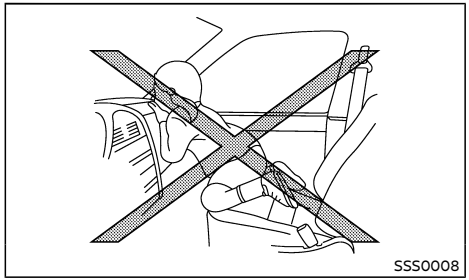
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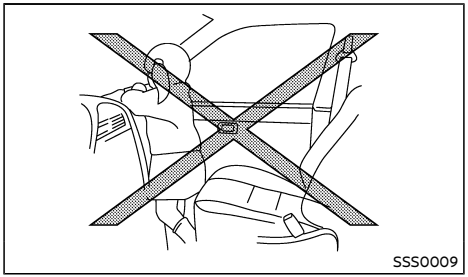
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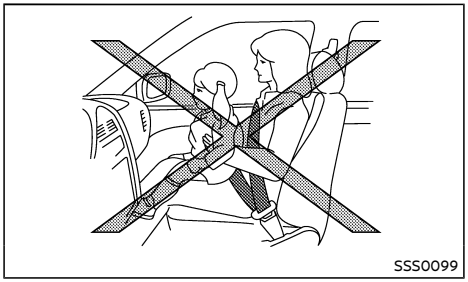
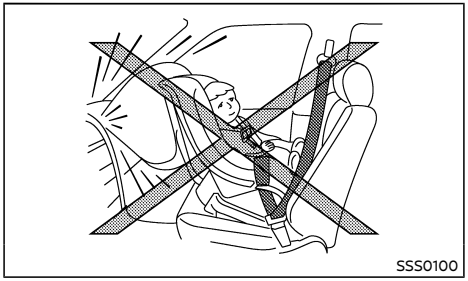
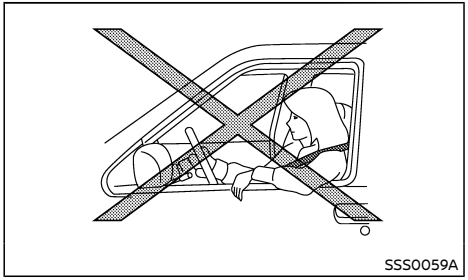
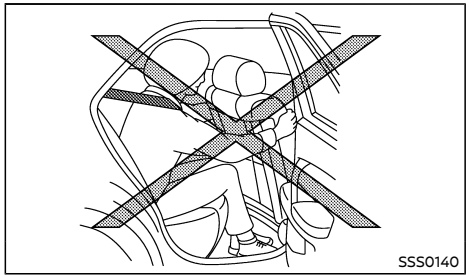

SSS0099

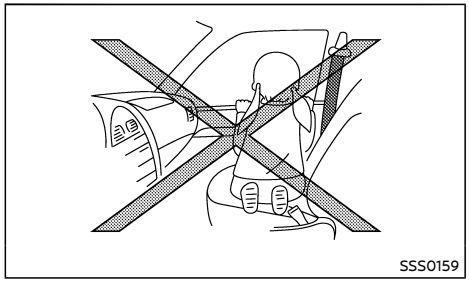

SSS0100

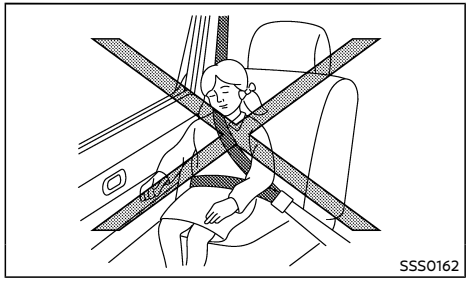
WARNING:

- **Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.**
- **Children may be severely injured or killed when the air bags inflate if they are not properly restrained.**
- **Never install a rear-facing child restraint system on the front seat. An inflating supplemental front-impact air bag could seriously injure or kill your child. (See "Child restraints" (P.1-17).)**


SSS0059A


SSS0140


SSS0159


SSS0162

WARNING:

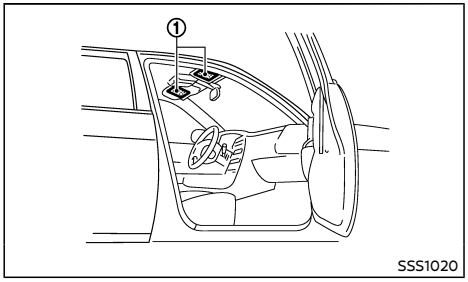
- **The supplemental side-impact air bags, supplemental front central side-impact air bag (if equipped) and supplemental curtain side-impact air bags ordinarily will not inflate in the event of a front impact, rear impact, rollover, or lower severity side collision. Always wear the seat belts to help reduce the risk or severity of injury in accidents.**
- **The seat belts and the supplemental front central side-impact air bag, supplemental side-impact air bags and supplemental curtain side-impact air bags are most effective when you are sitting well back and upright in the seat. The supplemental front central side-impact air bag, supplemental side-impact air bags and supplemental curtain side-impact air bags inflate with great force. If you and your passengers are unrestrained, leaning forward, sitting sideways, or out of position in any way, you and your passengers are at greater risk of injury or death in an accident.**
- **Do not allow anyone to place their hands, legs or face near the supplemental front central side-impact air bag, supplemental side-impact air bags, supplemental curtain side-impact air bags located on the center of the seatback of the driver's seat, the sides of the seatback of the front seats or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hands out of the windows or lean against the doors. Some examples of dangerous riding positions are shown in the illustrations.**
- **When sitting in the rear seats, do not hold onto the seatback of the front seats. If the supplemental front central side-impact air bag, supplemental side-impact air bags and supplemental curtain side-impact air bags inflate, you may be seriously injured. Be especially careful with children, who should always be properly restrained.**
- **Do not use non-genuine seat covers on the front seatbacks. They may interfere with the supplemental front central side-impact air bag and supplemental side-impact air bag inflations.**

Pre-tensioner seat belt system

The pre-tensioner seat belt system may activate with the supplemental air bag system in certain types of collisions.

Working with the seat belt retractors and front lap outer anchors, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, helping to restrain front and second row outboard seat occupants. (See "Pre-tensioner seat belt system" (P.1-49).)

Air bag warning labels



Warning labels about the supplemental air bag system are placed in the vehicle as shown in the illustration.

The warning label ① is located on the surface of the driver's and/or front passenger's sun visor.



The label warns:

"NEVER use a rearward facing child restraint on a seat protected by an ACTIVE AIRBAG in front of it, DEATH or SERIOUS INJURY to the CHILD can occur."

In vehicles equipped with a front-impact passenger air bag system, use a rear-facing child restraint system only on the rear seats.

When installing a child restraint system in your vehicle, always follow the child restraint system manufacturer's instructions for installation. For additional information, see "Child restraints" (P.1-17).

SRS air bag warning light



The supplemental air bag warning light, displaying in the meter monitors the circuits for the air bag systems, pre-tensioner seat belt system and all related wiring.

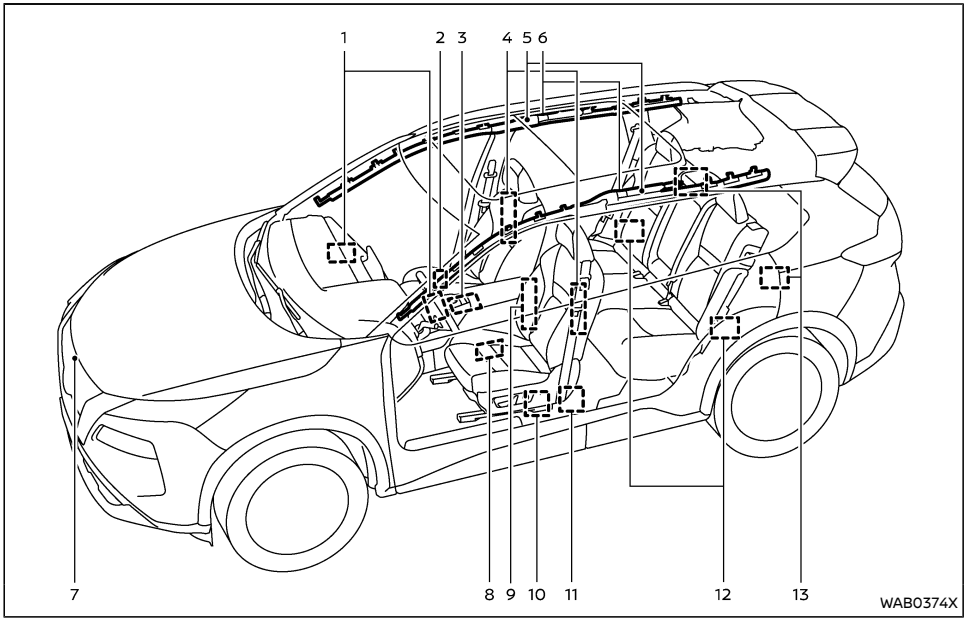
When the ignition switch is in the “ON” position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS air bag systems are operational.

If any of the following conditions occur, the air bag and/or pre-tensioner seat belt systems need servicing:

- The SRS air bag warning light remains on after approximately 7 seconds.
- The SRS air bag warning light does not illuminate at all.

Under these conditions, the air bag, pre-tensioner seat belt and/or occupant classification sensor (if equipped) systems may not operate properly. They must be checked and repaired. Contact a NISSAN dealer immediately.

SUPPLEMENTAL AIR BAG SYSTEMS



Example (Two row model shown)

1. Supplemental front-impact air bag modules
2. Occupant classification sensor (front passenger’s seat) (if equipped)
3. Air bag Control Unit (ACU)
4. Supplemental side-impact air bag modules
5. Supplemental curtain side-impact air bag inflators
6. Supplemental curtain side-impact air bag modules
7. Crash zone sensor
8. Front door pressure sensors (left-side shown; right-side similar) (if equipped)
9. Supplemental front central side-impact air bag modules (driver’s seat) (if equipped)

10. Lap outer pre-tensioners (front)
11. Seat belt pre-tensioner retractors (front)
12. Satellite sensors (rear)
13. Seat belt pre-tensioner retractors (second row outboard seats)

WARNING:

- **Do not place any objects on the steering wheel pad, on the instrument panel, and near the front door finishers and the front seats. Do not place any objects between any occupants and the steering wheel pad, on the instrument panel, and near the front door finishers and the front seats. Such objects may become dangerous projectiles and cause injury if a supplemental air bag inflates.**
- **Immediately after inflation, several supplemental air bag system components will be hot. Do not touch them: you may severely burn yourself.**
- **No unauthorized changes should be made to any components or wiring of the supplemental air bag systems. This is to prevent accidental inflation of the supplemental air bags or damage to the supplemental air bag systems.**
- **Do not make unauthorized changes to your vehicle's electrical system, suspension system, front end structure and side panels. This could affect proper operation of the supplemental air bag systems.**
- **Tampering with the supplemental air bag systems may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel by placing materials over the steering wheel pad and above, around or on the instrument panel or by installing additional trim materials around the supplemental air bag systems.**
- **Work on and around the supplemental air bag systems should be done by a NISSAN dealer. The SRS wiring should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the supplemental air bag systems.**
- **The SRS wiring harness connectors are yellow and/or orange for easy identification.**

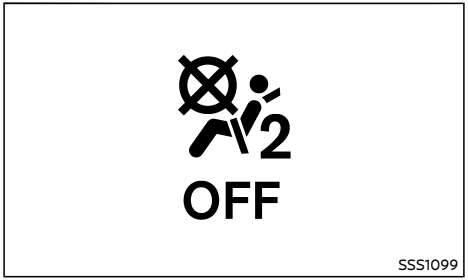
When the air bags inflate, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

Supplemental front-impact air bag system

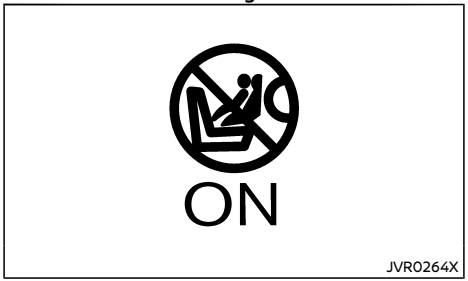
The driver's supplemental front-impact air bag is located at the center of the steering wheel. The passenger's supplemental front-impact air bag is located at the instrument panel above the glove box.

The supplemental front-impact air bag system is designed to inflate in higher severity frontal collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. It may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental front-impact air bag system operation.

Front passenger air bag status light (if equipped):



OFF light



ON light

WARNING:

Never install a rear-facing child restraint system on the front passenger seat without ensuring that the front passenger air bag is deactivated. The vehicle is equipped with an automatic front-passenger front air bag deactivation system. The <PASSENGER AIR BAG OFF> indicator must be lit. In a frontal collision, supplemental front impact air bags inflate with great force. An inflating supplemental front-impact air bag could seriously injure or kill your child.

The front passenger seat is equipped with occupant classification sensor that turns the front passenger air bag on or off depending on the type of occupant or object detected on the front passenger seat. The status of the front passenger air bag (ON or OFF) is indicated by the front passenger air bag status lights <PASSENGER AIR BAG OFF> and <PASSENGER AIR BAG ON> which are located on the roof console.

After the ignition switch is placed in the "ON" position, the <PASSENGER AIR BAG OFF> and <PASSENGER AIR BAG ON> indicator lights must light up simultaneously for approximately 7 seconds.

The indicator lights display the status of the front passenger front air bag:

- <PASSENGER AIR BAG ON> lights up: the front passenger front air bag is enabled. If, in the event of an accident, all deployment criteria are met, the front passenger front air bag is deployed.
- <PASSENGER AIR BAG OFF> lights up: the front passenger front air bag is disabled. It will then not be deployed in the event of an accident.

CONDITION	DESCRIPTION	PASSENGER AIR BAG INDICATOR LIGHT OFF OR ON	FRONT PASSENGER AIR BAG STATUS
Empty	Empty front passenger seat	OFF illuminated	INHIBITED
Nissan recommended child restraint with child	Bag or Child Restraint in front passenger seat*	OFF illuminated	INHIBITED
Adult	Adult in the front passenger seat	ON illuminated	ACTIVATED

* If an approved child restraint system is not being used, the passenger air bag may be active (ON illuminated).

In addition to the above, certain objects placed on the front passenger seat may also cause the light to operate as described above.

For additional information related to the normal operation and troubleshooting of this occupant classification sensor system, please refer to "Troubleshooting" later in this section.

Automatic front-passenger air bag deactivation system (if equipped):

WARNING:

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection. Failure to follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity of injury in an accident.

In order to recognize a child restraint system on the front-passenger seat, the automatic front-passenger front air bag deactivation system categorises the person in the front passenger seat using an occupant classification sensor. Depending on that result, the front-passenger front air bag is either enabled or disabled. If a NISSAN recommended child restraint system is fitted to the front passenger seat, the <PASSENGER AIR BAG OFF> OFF indicator light must light up after the system self-test and remain lit. The front passenger front air bag is disabled.

The occupant classification sensor in this vehicle is designed to detect the type of occupant or objects on the seat. For example, if an approved child restraint on the seat, it can be detected together with the child and cause the air bag to turn OFF.

Front passenger seat adult occupants who are properly seated and using the seat belt as outlined in this manual should automatically cause the passenger air bag to be turned ON. However, if the occupant is not sitting correctly on the seat cushion (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. Always be sure to be seated and wearing the seat belt properly for the most effective protection by the seat belt and supplemental air bag.

NISSAN recommends that pre-teens and children be properly restrained in a rear seat. NISSAN also recommends that appropriate child restraints and booster seats be properly installed in a rear seat. If this is not possible, the occupant classification sensor is designed to operate as described above to turn the front passenger air bag OFF for NISSAN recommended child restraints. Failing to properly secure child restraints may allow the restraint to tip or move in an accident or sudden stop. This can also result in the passenger air bag inflating in a crash instead of being OFF. (See "Child restraints" later in this section for proper use and installation.)

If the front passenger seat is not occupied, the passenger air bag are designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the way the object is detected by the occupant classification sensor. Other conditions could also result in air bag inflation, such as if a child is standing on the seat, or if two children are on the seat, if the seat is wet, or if an electrical device is on the seat, contrary to the instructions in this manual. Always be sure that you and all vehicle occupants are seated and restrained properly.

Using the front passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF.

If an adult occupant is in the seat but the <PASSENGER AIR BAG OFF> OFF indicator light is illuminated (indicating that the front passenger air bag is OFF), it could be that the person is not sitting on the seat properly. If a non-genuine seat cover or additional cushion is

used, this may also prevent the occupant classification sensor from detecting an adult correctly.

If a child restraint must be used in the front seat, the <PASSENGER AIR BAG OFF> indicator light may or may not be illuminated, depending on the size of the child and the type of child restraint being used. If the <PASSENGER AIR BAG OFF> light is not illuminated (indicating that the air bag might inflate in a crash), it could be that the child restraint or seat belt is not being used properly. Make sure that the child restraint is installed properly, the seat belt is used properly and the occupant is positioned properly. If the <PASSENGER AIR BAG OFF> light is not illuminated, reposition the occupant or child restraint in a rear seat.

If the <PASSENGER AIR BAG OFF> light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, it is recommended that you take your vehicle to a NISSAN dealer. A NISSAN dealer can check the system status by using a special tool. However, until you have confirmed with your dealer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The air bag system and front passenger air bag status lights will take a few seconds to register a change in the passenger seat status. This is normal system operation and does not indicate a malfunction.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meters and gauges area, will illuminate (blinking or steadily lit). Also, if the seat is wet and the system cannot work correctly, the system will deactivate the passenger air bag temporarily and illuminate the supplemental air bag warning light until seat is dry. Have the system checked. It is recommended you visit a NISSAN dealer for this service.

Normal operation:

In order for the occupant classification sensor system to classify the front passenger, please follow the precautions and steps outlined below:

Precautions:

- Make sure that a child restraint or other object is not pressing against the rear of the seatback.
- Make sure that a rear passenger is not pushing or pulling on the back of the front passenger seat.
- Make sure that the front passenger seat or seatback is not forced back against an object on the seat or floor behind it.
- Make sure that there is no object placed under the front passenger seat.
- Make sure that the front passenger seat head restraint does not contact the roof when adjusting the front passenger seat.
- Make sure the seat is dry.
- Make sure no electrical devices are placed on the seat.
- Make sure additional non-genuine seat covers or cushions are not used on the front passenger seat.
- Make sure the occupant of the seat is not wearing heavily padded clothing items.

Steps:

1. Adjust the seat as outlined. (See "Seats" earlier in this section.) Sit upright, leaning against the seatback, and centered on the seat cushion with your feet comfortably extended to the floor.
2. Make sure there are no objects on your lap.
3. Fasten the seat belt as outlined. (See "Seat belts" earlier in this section.) Front passenger seat belt buckle status is monitored by the occupant classification system, and is used as an input to determine occupancy status. So, it is highly recommended that the front passenger fastens their seat belt.
4. Remain in this position for several seconds allowing the system to classify the front passenger before the vehicle is put into motion.
5. Ensure proper classification by checking the front passenger air bag status light.

NOTE:

This vehicle's occupant classification sensor system generally keeps the classification locked during driving, so it is important that you confirm that the front passenger is properly classified prior to driving. However, the occupant classification sensor system may recalculate the classification of the occupant under some conditions (both while driving and when stopped), so the front passenger seat occupant should continue to remain seated as outlined above.

WARNING:

If the <PASSENGER AIR BAG OFF> indicator light is lit, the front-passenger front air bag is disabled. It will not be deployed in the event of an accident and cannot perform its intended protective function. A person in the front passenger seat could then, for example, come into contact with the vehicle's interior, especially if the person is sitting too close to the dashboard. This poses an increased risk of injury or even fatal injury.

When the front-passenger seat is occupied,

always make sure that:

- **The classification of the person in the front passenger seat is correct and that the front passenger front air bag is enabled or disabled in accordance with the person in the front passenger seat.**
- **The front-passenger seat has been moved back as far back as possible.**
- **The person is seated correctly.**

If you secure a child on the front passenger seat in a rearward-facing child restraint system and the <PASSENGER AIR BAG ON> indicator lights up, the passenger's air bag could be deployed in the event of an accident. The child could be struck by the air bag. There is an increased risk of injury, possibly even fatal. In this case, always ensure that the passenger's air bag is disabled. The <PASSENGER AIR BAG OFF> indicator must light up.

Troubleshooting:

If you think the front passenger air bag status light is incorrect:

1. If the <PASSENGER AIR BAG OFF> light is lit with an adult occupying the front passenger seat:

This may be due to the following conditions that may be interfering with the occupant classification sensor:

- Occupant is not sitting upright, leaning against the seatback, and centered on the seat cushion with his/her feet comfortably extended to the floor.
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.
- The seat is wet or damp.
- An electrical device like a smartphone or tablet PC is placed on the seat.
- Non-genuine seat covers or cushions are used on the front passenger seat
- The occupant of the seat is wearing heavily padded clothing items.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle.

NOTE:

A system check will be performed during which the front passenger air bag status lights will remain lit for about 7 seconds initially.

If the <PASSENGER AIR BAG OFF> light is still lit after this, the person should be advised not to ride in the front passenger seat and the vehicle should be checked as soon as possible. It is recommended you visit a NISSAN dealer for this service.

2. If the <PASSENGER AIR BAG ON> light is lit with a child restraint occupying the front passenger seat.

This may be due to the following conditions that may be interfering with the occupant classification sensor:

- The child restraint is not properly installed, as outlined. (See "Child restraints" (P.1-17).)
- A child restraint or other object pressing against the rear of the seatback.
- A rear passenger pushing or pulling on the back of the front passenger seat.
- Forcing the front seat or seatback against an object on the seat or floor behind it.
- An object placed under the front passenger seat.
- An object placed between the seat cushion and center console or between the seat cushion and the door.
- The seat is wet or damp.
- An electrical device like a smartphone or tablet PC is placed on the seat.
- The front passenger seat head restraint contacting the roof.

If the vehicle is moving, please come to a stop when it is safe to do so. Check and correct any of the above conditions. Restart the vehicle.

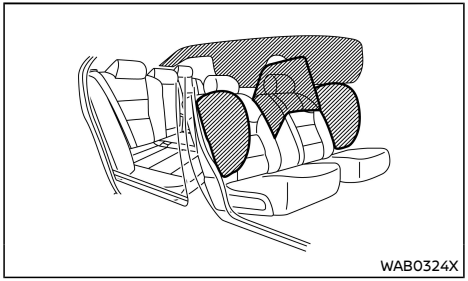
NOTE:

A system check will be performed during which the front passenger air bag status light will remain lit for about 7 seconds initially.

If the <PASSENGER AIR BAG ON> light is still lit after this, the child restraint should be repositioned in the rear seat and it is recommended that the vehicle should be checked by a NISSAN dealer as soon as possible.

3. If the <PASSENGER AIR BAG ON> light is lit with no front passenger and no objects on the front passenger seat, the vehicle should be checked as soon as possible. It is recommended you visit a NISSAN dealer for this service.

Supplemental side-impact air bag system


WAB0324X

The supplemental side-impact air bag is located at the outside of the front seats' seatbacks.

The supplemental side-impact air bag system is designed to inflate in higher severity side collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity side impact. It may not inflate in certain side collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental side-impact air bag system operation.

Supplemental front central side-impact air bag system (if equipped)

The supplemental front central side-impact air bag is located at the inside of the driver's seats' seatback.

The supplemental front central side-impact air bag system is designed to inflate in higher severity side collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity side impact. It may not inflate in certain side collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental front central side-impact air bag system operation.

Supplemental curtain side-impact air bag system

The supplemental curtain side-impact air bag is located at the roof rails.

The supplemental curtain side-impact air bag system is designed to inflate in higher severity side collisions, although it may inflate if the forces in another type of collision are similar to those of a higher severity side impact. It may not inflate in certain side collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental curtain side-impact air bag system operation.

SRS AIR BAG DEPLOYMENT CONDITIONS

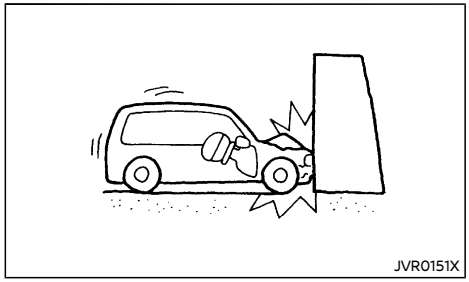
The SRS air bags activate in the event of a front or side impact in which the vehicle occupants may be severely injured even if they are wearing the seat belts properly.

They may not activate when the crash energy is absorbed and/or distributed by the vehicle body. Vehicle damage (or lack of it) is not always an indication of proper SRS air bag system operation.

When the SRS air bag will deploy

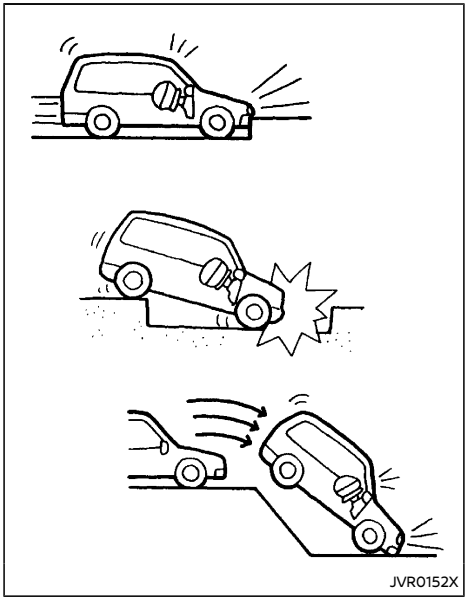
Supplemental front-impact air bags:

The supplemental front-impact air bag system is designed to inflate in higher severity frontal collisions. Some examples are shown in the following illustrations.


JVR0151X

The supplemental front-impact air bag system will deploy in the event of an impact which exceeds a 25 km/h (16 MPH) frontal collision with a solid wall that does not move or deform.

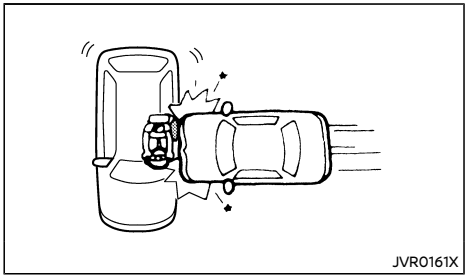
The supplemental front-impact air bag system may also deploy when the vehicle receives severe damage to the undercarriage.


JVR0152X

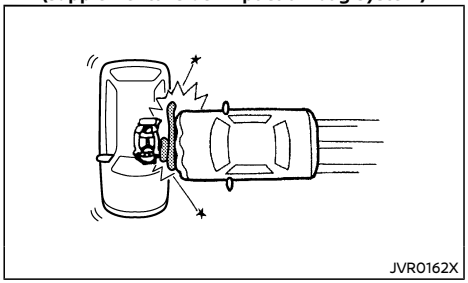
- Hitting a curb, pavement edge or hard surface at high speed
- Falling into a deep hole or ditch
- Landing hard on the ground after jumping

Supplemental side-impact and curtain side-impact air bags:

The supplemental side-impact and curtain side-impact air bag systems are designed to inflate in higher severity side collisions. Some examples are shown in the following illustrations.


JVR0161X

(supplemental side-impact air bag system)


JVR0162X

(supplemental curtain side-impact air bag system)

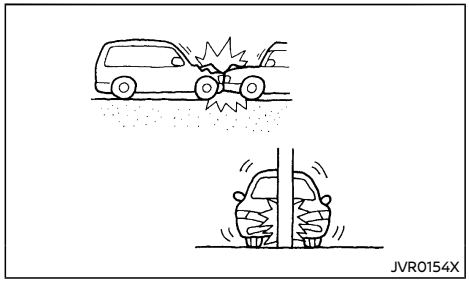
- The supplemental side-impact and curtain side-impact air bags will deploy in the event of a side impact with a normal passenger vehicle that exceeds at a speed of 25 km/h (16 MPH).

When the SRS air bag is unlikely to deploy

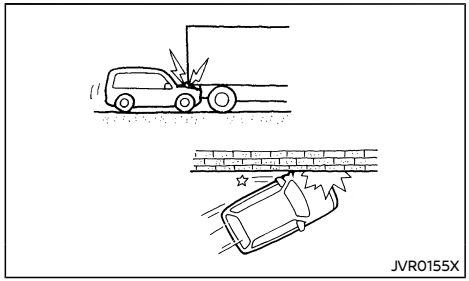
The SRS air bags may not deploy in cases where the impact is not forceful enough to inflate the SRS air bags.

For example, if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, the SRS air bags are unlikely to deploy.

Supplemental front-impact air bags:

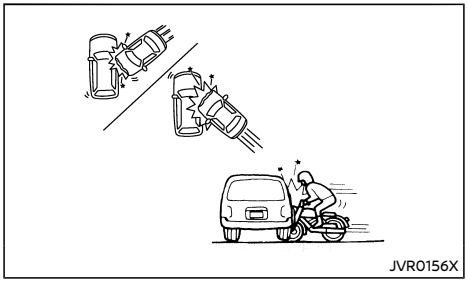

JVR0154X

- Striking a vehicle of the same class that is parked
- Crashing into a solid utility pole

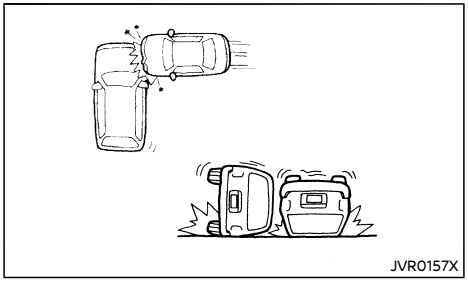

JVR0155X

- Running under the tail gate of a truck
- A frontal offset impact to the guard rails

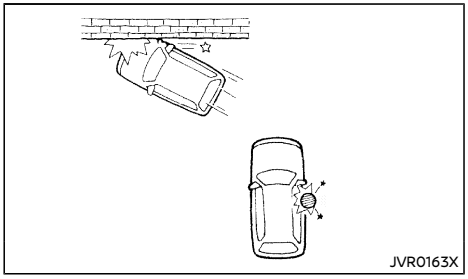
Supplemental side-impact and curtain side-impact air bags:


JVR0156X

- A collision from the side at an angle
- A side impact with a two-wheeled vehicle


JVR0157X

- A collision from the side impacting the vehicle engine room (luggage room)
- Vehicle rollover


JVR0163X

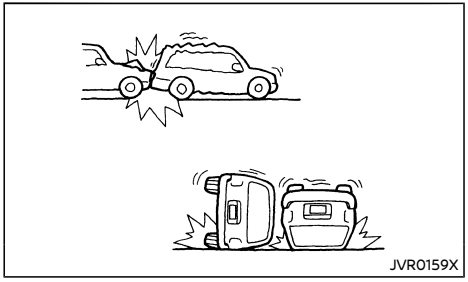
- A frontal offset impact to the guard rails
- A collision with a pole

When the SRS air bag will not deploy

Once the SRS air bag has inflated, the air bag module will not function again if your vehicle collides with another vehicle or an object.

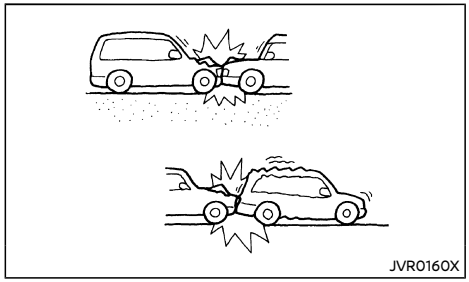
Other examples where the SRS air bag will not deploy are shown in the following illustrations.

Supplemental front-impact air bags:


JVR0159X

- A collision from the side or rear
- Vehicle rollover

Supplemental side-impact and curtain side-impact air bags:


JVR0160X

- A frontal collision with a parked or moving vehicle
- A rear collision

PRE-TENSIONER SEAT BELT SYSTEM

WARNING:

- **The pre-tensioner seat belt cannot be reused after activation. It must be replaced together with the retractor and buckle as a unit.**
- **If the vehicle becomes involved in a collision but the pre-tensioner is not activated, be sure to have the pre-tensioner system checked and, if necessary, replaced by a NISSAN dealer.**
- **No unauthorized changes should be made to any components or wiring of the pre-tensioner seat belt system. This is to prevent accidental activation of the pre-tensioner seat belt or damage to the pre-tensioner seat belt system.**

- **Work around or on the pre-tensioner seat belt system should be done by a NISSAN dealer. The SRS wiring should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the pre-tensioner seat belt system.**
- **If you need to dispose of the pre-tensioner seat belt system, or scrap the vehicle, contact a NISSAN dealer. Correct pre-tensioner disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**

The pre-tensioner seat belt system may activate with the supplemental air bag system in certain types of collisions.

Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain the occupants.

The pre-tensioner is encased with the front and second row outboard seat belt's retractor and anchor. These seat belts are used the same as conventional seat belts.

When the pre-tensioner seat belt activates, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

REPAIR AND REPLACEMENT PROCEDURE

WARNING:

- **Once the air bags have been inflated, the air bag modules will not function and must be replaced. The air bag modules must be replaced by a NISSAN dealer. The inflated air bag modules cannot be repaired.**
- **The air bag systems should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**
- **If you need to dispose of the SRS or scrap the vehicle, contact a NISSAN dealer. Correct disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**
- **If there is an impact to your vehicle from any direction, your occupant classification sensor (if equipped) should be checked to verify it is still functioning correctly. It is recommended that you visit a NISSAN dealer for this service. The occupant classification sensor should be checked even if no air bags deploy as a result of the impact. Failure to verify proper occupant classification sensor function may result in an improper air bag deployment resulting in injury or death.**

The air bags and pre-tensioner seat belts are designed to activate on a one-time-only basis. As a reminder, unless the SRS air bag warning light is damaged, the SRS air bag warning light remains illuminated after inflation has occurred. The repair and replacement of the SRS should be done only by a NISSAN dealer.

When maintenance work is required on the vehicle, information about the air bags, pre-tensioner seat belts and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be in the "OFF" position when working under the hood or inside the vehicle.

2 Instruments and controls

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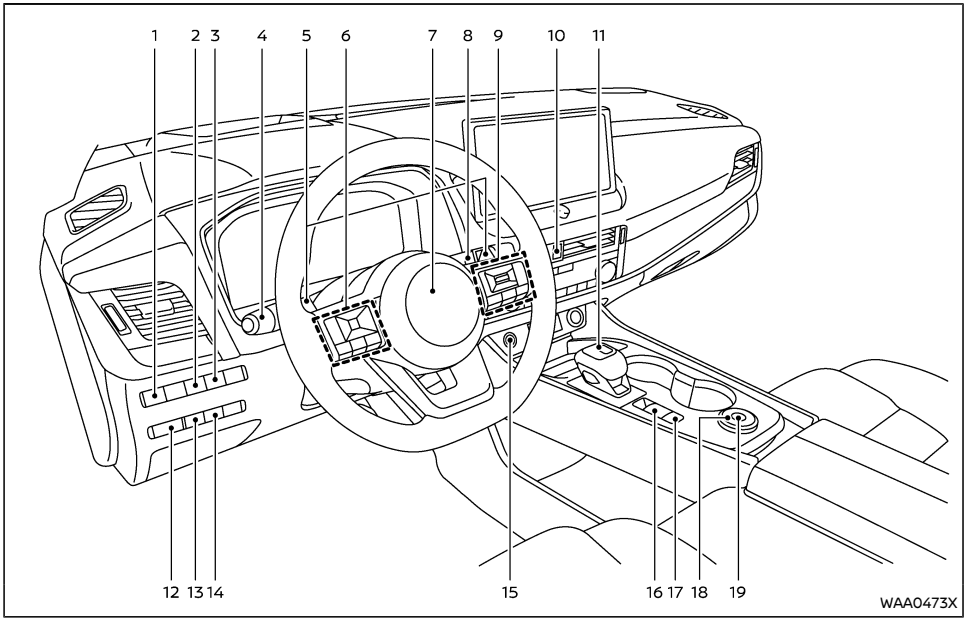
COCKPIT

LEFT-HAND DRIVE (LHD) MODEL

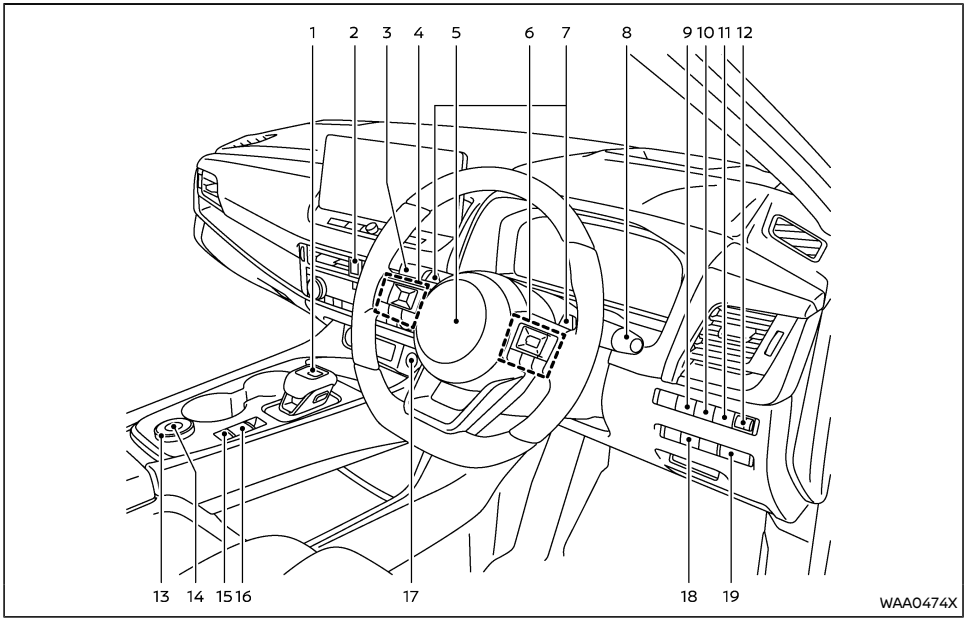


1. Headlight aiming control switch*
2. Steering Assist switch* (models with ProPILOT) or dynamic driver assistance switch* (models without ProPILOT)
3. Head Up Display (HUD) switch*
4. Headlight and turn signal switch/Fog light switch*
5. Paddle shifters
6. Steering-wheel-mounted controls (left side)
   — Audio control
   — Vehicle information display control
7. Steering wheel
   — Horn
8. Wiper and washer switch
9. Steering-wheel-mounted controls (right side)
   — Speed limiter switches*
   — Cruise control switches*
   — Intelligent Cruise Control (ICC) switches*
   — ProPILOT switches*
   — Bluetooth® Hands-Free Phone System switches
   — Voice Recognition system switch*
10. Hazard indicator flasher switch
11. Shift lever
    — Continuously Variable Transmission (CVT)
12. Instrument brightness control
13. Stop/Start or Idling Stop OFF switch*
14. Power back door switch*
15. Push-button ignition switch
16. Parking brake switch
17. Automatic brake hold switch
18. Drive Mode Selector**
19. Hill descent control switch*

*: if equipped

**: The Drive Mode Selector illustrated is for the 4WD/AWD model. On the 2WD model, the shape and location differ.

RIGHT-HAND DRIVE (RHD) MODEL



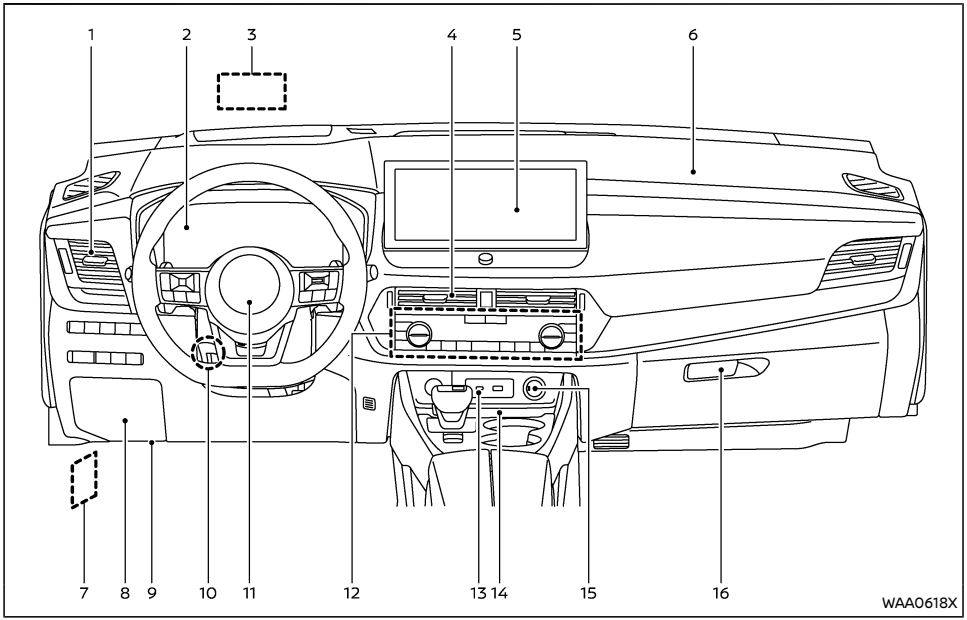
1. Shift lever
   — Continuously Variable Transmission (CVT)
2. Hazard indicator flasher switch
3. Headlight and turn signal switch/Fog light switch*
4. Steering-wheel-mounted controls (left side)
   — Audio control*
   — Vehicle information display control
5. Steering wheel
   — Horn
6. Steering-wheel-mounted controls (right side)
   — Speed limiter switches*
   — Cruise control switches*
   — Intelligent Cruise Control (ICC) switches*
   — ProPILOT switches*
   — Bluetooth® Hands-Free Phone System switches
   — Voice Recognition system switch*
7. Paddle shifters
8. Wiper and washer switch
9. Head Up Display (HUD) switch*
10. Steering Assist switch* (models with ProPILOT) or dynamic driver assistance switch* (models without ProPILOT)
11. Stop/Start OFF switch*
12. Headlight aiming control switch*
13. Drive Mode Selector**
14. Hill descent control switch*
15. Automatic brake hold switch
16. Parking brake switch
17. Push-button ignition switch
18. Power back door switch*
19. Instrument brightness control

*: if equipped

**: The Drive Mode Selector illustrated is for the 4WD/AWD model. On the 2WD model, the shape and location differ.

INSTRUMENT PANEL

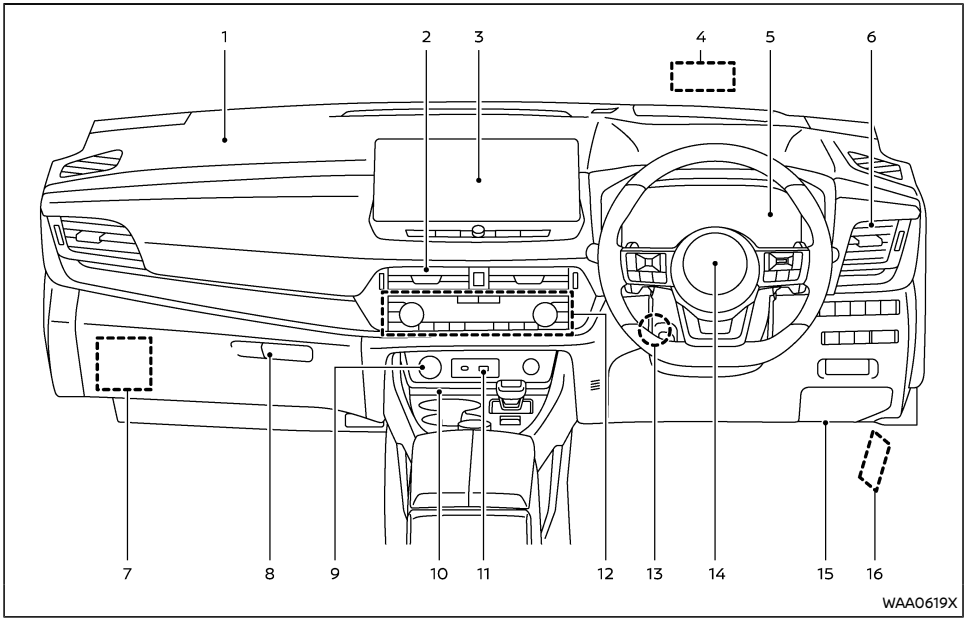
LEFT-HAND DRIVE (LHD) MODEL



1. Side ventilator
2. Meters and gauges/Clock
3. Head Up Display (HUD)*
4. Center ventilator
5. Audio system* or navigation system*
   - Rear view Monitor*
   - Intelligent Around View Monitor*
   - Bluetooth® Hands-Free Phone System
   - Clock
6. Front passenger supplemental air bag
7. Hood release handle
8. Fuse box cover
9. USB port for TSR map update*
10. Tilt and telescopic steering lock lever
11. Driver supplemental front-impact air bag
12. Heater and air conditioner control
    - Defogger switch
    - Heated seat switches*
    - Heated steering wheel switch*
    - Heated windshield*
13. USB (Universal Serial Bus) connection port (s)*
14. Wireless charger*
15. Power outlet
16. Glove box

*: if equipped

RIGHT-HAND DRIVE (RHD) MODEL

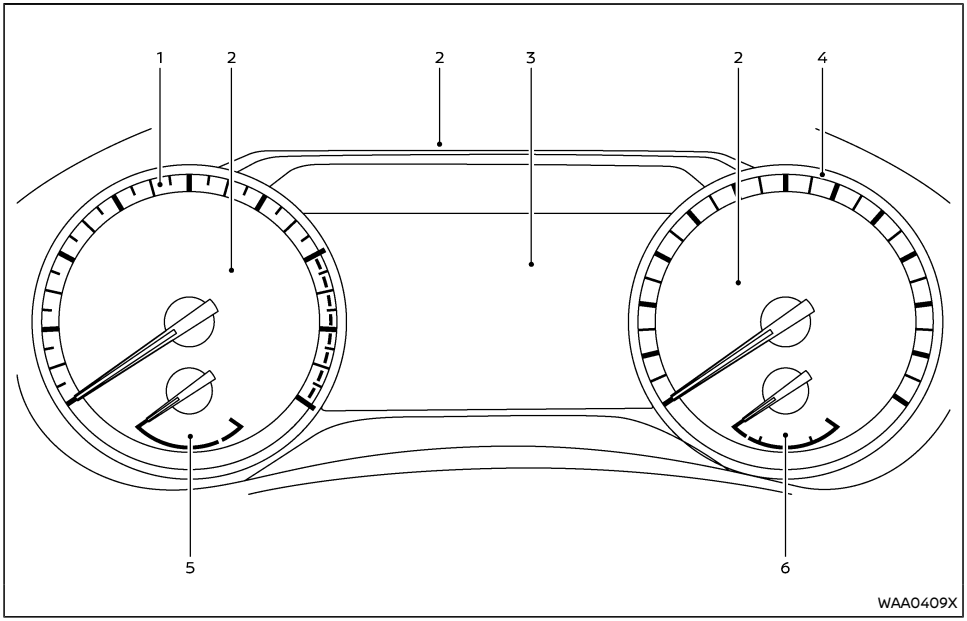


1. Front passenger supplemental air bag
2. Center ventilator
3. Audio system* or navigation system*
   — Rear view Monitor*
   — Intelligent Around View Monitor*
   — Bluetooth® Hands-Free Phone System
   — Clock
4. Head Up Display (HUD)*
5. Meters and gauges/Clock
6. Side ventilator
7. Fuse box cover
8. Glove box
9. Power outlet
10. Wireless charger*
11. USB (Universal Serial Bus) connection port (s)*
12. Heater and air conditioner control
    — Defogger switch
    — Heated seat switches*
    — Heated steering wheel switch*
    — Heated windshield*
13. Tilt and telescopic steering lock lever
14. Driver supplemental front-impact air bag
15. USB port for TSR map update*
16. Hood release handle

*: if equipped

METERS AND GAUGES

MODELS WITH ANALOG METER AND COLOR DISPLAY



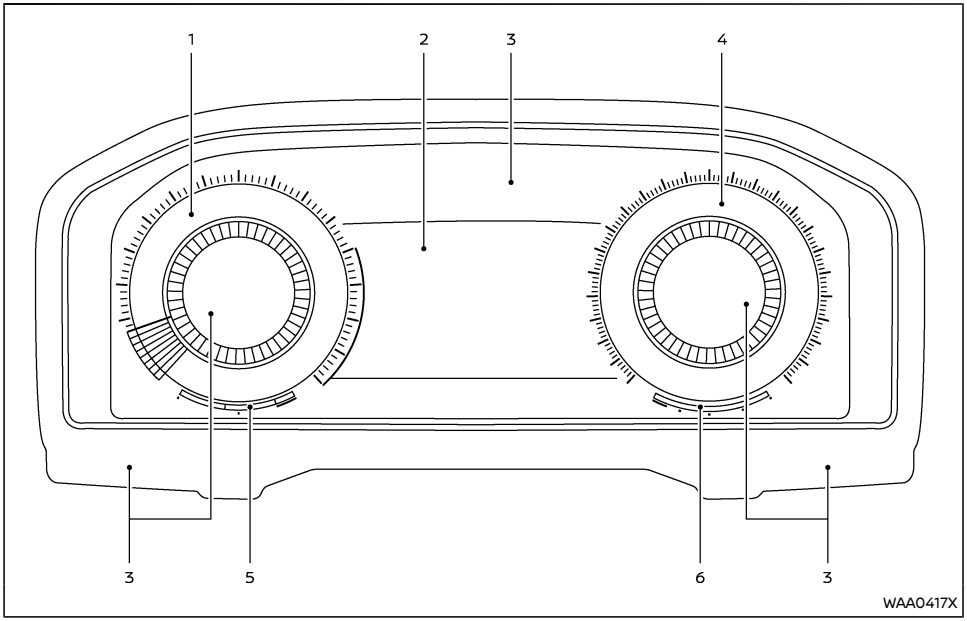
Example

1. Tachometer
2. Warning and indicator lights
3. Vehicle information display
   — Odometer
4. Speedometer
5. Engine coolant temperature gauge
6. Fuel gauge

CAUTION:

- **For cleaning, use a soft cloth, dampened with water. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or cause discoloration to the lens.**
- **Do not spray any liquid such as water on the meter lens. Spraying liquid may cause the system to malfunction.**

MODELS WITH FULL-SCREEN DISPLAY

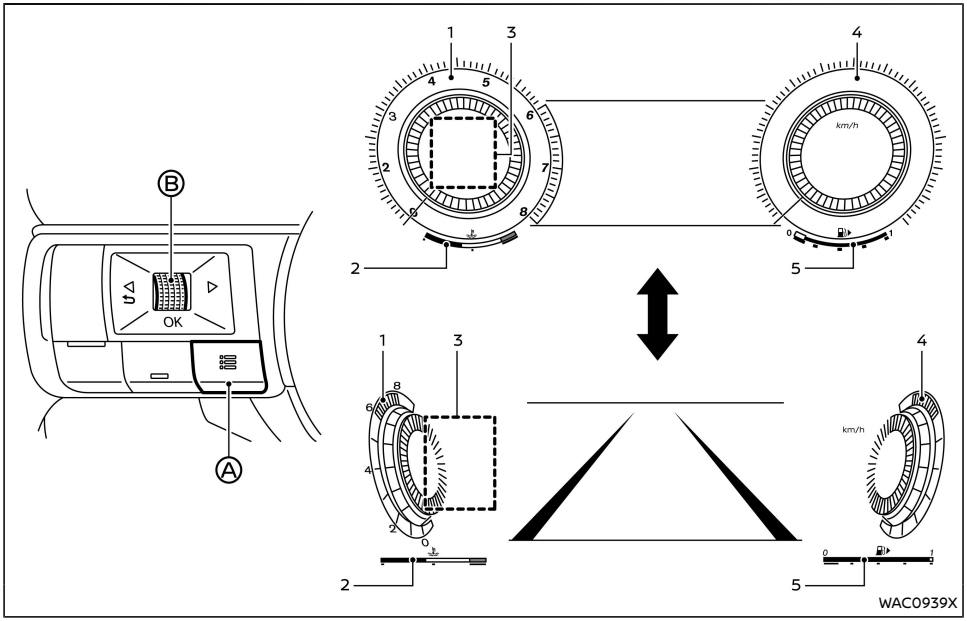


1. Tachometer
2. Vehicle information display
   — Odometer
3. Warning and indicator lights
4. Speedometer
5. Engine coolant temperature gauge
6. Fuel gauge

CAUTION:

- **For cleaning, use a soft cloth, dampened with water. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or cause discoloration to the lens.**
- **Do not spray any liquid such as water on the meter lens. Spraying liquid may cause the system to malfunction.**

Changing the meter screen view (models with full-screen display)



Example

1. Tachometer
2. Engine coolant temperature gauge
3. Personal Display
4. Speedometer
5. Fuel gauge

For models with full-screen display, the meter screen view can be changed to expand the vehicle information display area.

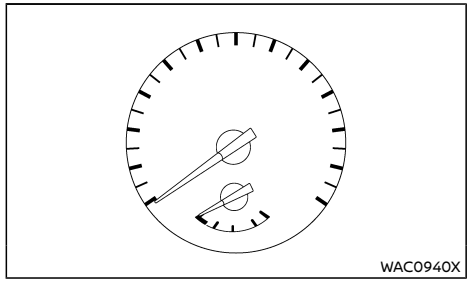
To change the meter screen view:

1. Push the shortcut menu button Ⓐ on the left side of the steering wheel.

   "Shortcut Menu" appears on the vehicle information display area.
2. Select "Change Display View" by rotating the scroll dial Ⓑ and push it to change the view.

SPEEDOMETER AND ODOMETER

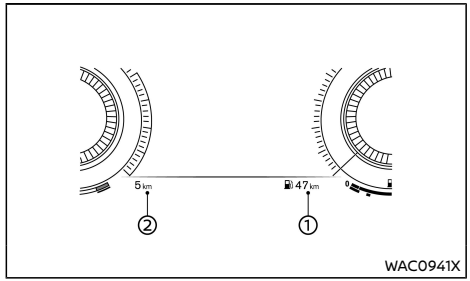
Speedometer



Example

The speedometer indicates vehicle speed (km/h and/or MPH (if equipped)).

Distance to empty (dte)/Odometer



Example

Distance to empty (dte):

The distance to empty (dte) ① provides an estimation of the distance that can be driven before refueling. The dte is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The display is updated every 30 seconds.

The dte mode includes a low range warning feature. If the fuel level is low, the warning is displayed on the screen.

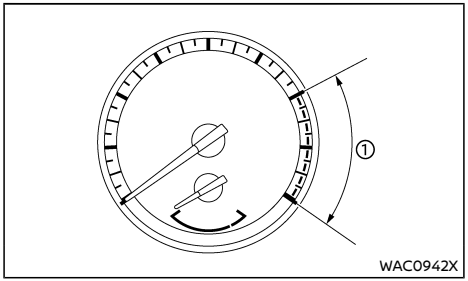
When the fuel level drops even lower, the dte display will change to "———".

- If the amount of fuel added is small, the display just before the ignition switch is placed in the "OFF" position may continue to be displayed.
- When driving uphill or rounding curves, the fuel in the tank shifts, which may momentarily change the display.

Odometer:

The odometer ② is displayed in the vehicle information display to display the total distance the vehicle has been driven.

TACHOMETER



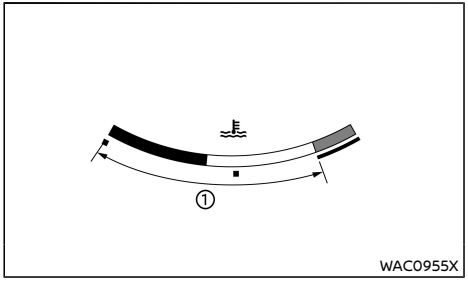
Example

The tachometer indicates engine speed in revolutions per minute (RPM). **Do not rev the engine into the red zone ①.**

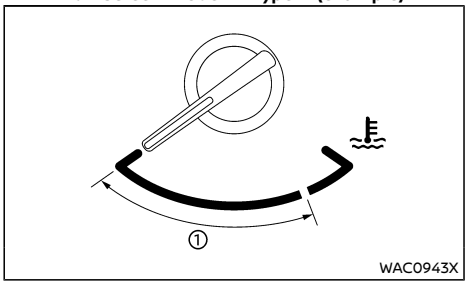
CAUTION:

When engine speed approaches the red zone, shift to a higher gear or reduce engine speed. Operating the engine in the red zone may cause serious engine damage.

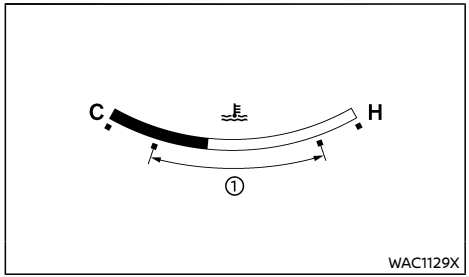
ENGINE COOLANT TEMPERATURE GAUGE



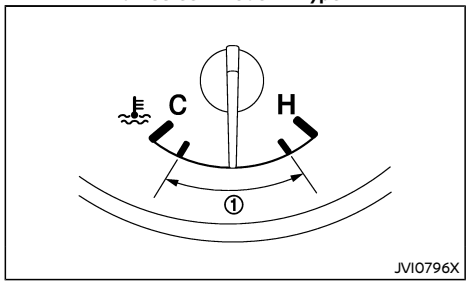
Full-screen model — Type A (example)



Analog model — Type A (example)



Full-screen model — Type B



Analog model — Type B

The engine coolant temperature gauge indicates the engine coolant temperature.

The engine coolant temperature is normal when the gauge needle points within the zone ① shown in the illustration.

The engine coolant temperature will vary with the outside air temperature and driving conditions.

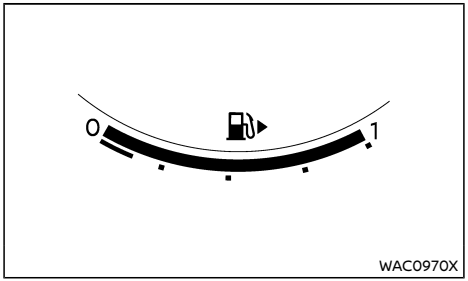
CAUTION:

- **If the gauge indicates the engine coolant temperature is near the hot (H) end of the normal range, reduce vehicle speed to**

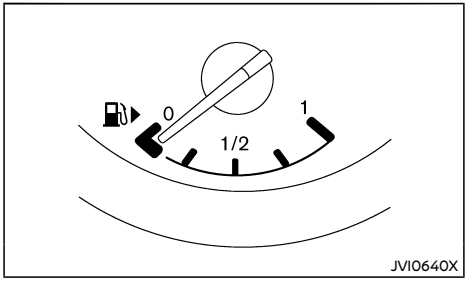
decrease the temperature.

- **If the gauge is over the normal range, stop the vehicle as soon as safely possible and let the engine idle.**
- **If the engine is overheated, continued operation of the vehicle may seriously damage the engine. (See "If your vehicle overheats" (P.6-15) for immediate action required.)**

FUEL GAUGE



Full-screen model



Analog model

The fuel gauge indicates the approximate fuel level in the tank when the ignition switch is in the "ON" position.

The gauge may move slightly during braking, turning, accelerating, or going up and down hills due to movement of fuel in the tank.

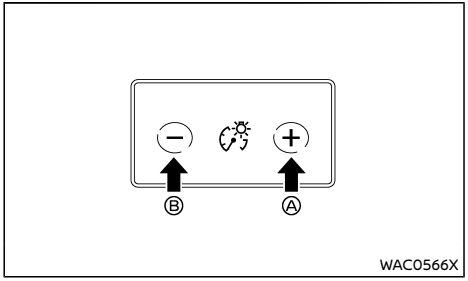
The low fuel warning appears on the vehicle information display when the fuel level in the tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reads 0 (empty).

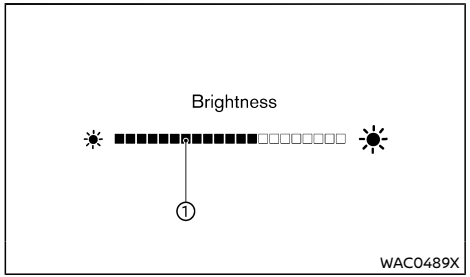
The arrow, , indicates the fuel-filler lid is located on the right side of the vehicle.

CAUTION:

Refuel before the gauge reads the empty (0) position.

INSTRUMENT BRIGHTNESS CONTROL





The instrument brightness control switch can be operated when the ignition switch is in the "ON" position. When the switch is operated, the vehicle information display switches to the brightness adjustment mode.

Push the + side of the switch Ⓐ to brighten the instrument panel lights. The bar ① moves to the right side.

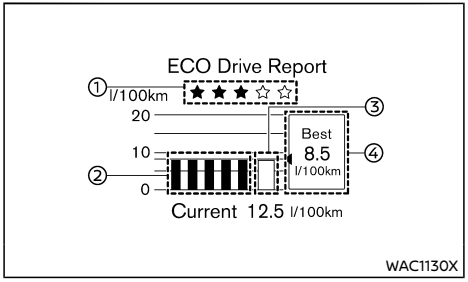
Push the - side of the switch Ⓑ to dim the lights. The bar ① moves to the left side.

The vehicle information display returns to the normal display when the instrument brightness control switch is not operated for more than 5 seconds.

CONTINUOUSLY VARIABLE TRANSMISSION (CVT) POSITION INDICATOR

The Continuously Variable Transmission (CVT) position indicator indicates the shift lever position when the ignition switch is in the "ON" position. (See "18. Continuously Variable Transmission (CVT) position indicator" (P.2-34).)

ECO DRIVE REPORT



Example

When the ignition switch is placed in the "ON" or "OFF" position, the ECO Drive Report is displayed.

① ECO evaluation
② Previous 5 times (History)
③ Current fuel economy
④ Best fuel economy

The result of ECO evaluation is displayed when the vehicle is driven for about 10 minutes or more.

①: The more economically you drive, the more ★ appear.

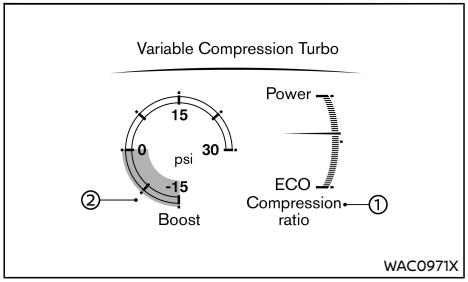
②: The average fuel economy for the previous 5 times will be displayed.

③: The average fuel economy since the last reset will be displayed.

④: The best fuel economy of the past history will be displayed.

When the "ECO Advice Adjust Tyre Pressures" message appears in the ECO Drive Report, the display can be switched to the Tire Pressures display by pushing the scroll dial on the steering wheel to show an additional message (if equipped).

VARIABLE COMPRESSION TURBO (if equipped)



Example

Your engine is equipped with a variable compression ratio system called "Variable Compression Turbo". This system can vary the engine compression ratio continuously.

According to driving conditions, the system applies optimum compression ratio automatically to achieve both high output and high fuel economy efficiency.

This is not a physical gauge. It is a display option in the vehicle information display that can be selected. (See "Vehicle information display" (P.2-21).)

① Compression ratio status display

Displays the status of compression ratio controlled by Variable Compression Turbo. The lowest compression ratio (8:1) and the highest (14:1) are displayed as "Power" and "Eco" respectively.

② Turbo charger boost pressure gauge

Displays the turbo charger boost pressure. The unit for the gauge can be changed in the "Settings" menu. (See "Unit/Language" (P.2-28).)

NOTE:

Under some conditions, the compression ratio may not change. This is not a malfunction of the system.

CAUTION:

If the Variable Compression Turbo becomes malfunction, the Malfunction Indicator Light (MIL) may come on. For additional information, see "Malfunction Indicator Light (MIL)" (P.2-19).

WARNING LIGHTS, INDICATOR LIGHTS AND AUDIBLE REMINDERS

	Anti-lock Braking System (ABS) warning light		Master warning light		Hill descent control system on indicator light*
	Brake warning light (red)		Rear Automatic Braking (RAB) system OFF warning light*		Hill start assist system indicator light
	Charge warning light		Seat belt warning light and chime		Intelligent Driver Alertness indicator light*
	Electronic parking brake system warning light		Speed [120 km/h (75 MPH)] warning light*		Low beam indicator light*
	Electronic parking brake warning light		Supplemental Restraint System (SRS) air bag warning light		Malfunction Indicator Light (MIL)
	Electric power steering warning light		Adaptive LED headlight indicator light*		Rear fog light indicator light*
	Electric shift control system warning light		Automatic brake hold indicator light (white)		Slip indicator light
	Engine oil pressure warning light		Automatic brake hold indicator light (green)		Small light indicator light
	Hands OFF warning light*		Front fog light indicator light*		Turn signal/hazard indicator lights
	Intelligent Emergency Braking with Pedestrian Detection system OFF warning light*		High beam assist indicator light*		Vehicle Dynamic Control (VDC) off indicator light/Electronic Stability Program (ESP) off indicator light
	Low tire pressure warning light*		High beam indicator light	*: if equipped	

CHECKING LIGHTS

With all doors closed, apply the parking brake, fasten the seat belts and place the ignition switch in the "ON" position without starting the engine. The following lights (if equipped) will come on:

The following lights (if equipped) come on briefly and then go off:

If any light does not come on or operates in a way other than described, it may indicate a burned-out bulb and/or a system malfunction. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

WARNING LIGHTS

Anti-lock Braking System (ABS) warning light

When the ignition switch is in the "ON" position, the Anti-lock Braking System (ABS) warning light illuminates and then turns off. This indicates the ABS is operational.

If the ABS warning light illuminates while the engine is running, or while driving, it may indicate the ABS is not functioning properly. Have the system checked by a NISSAN dealer promptly.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. (See "Brake system" (P.5-171).)

Brake warning light

WARNING:

- **If the brake fluid level is below the minimum mark on the brake fluid reservoir, do not drive the vehicle until the brake system has been checked by a NISSAN dealer.**
- **Even if you judge it to be safe, have your vehicle towed because driving it could be dangerous.**
- **Depressing the brake pedal without the engine running and/or with a low brake fluid level could increase the stopping distance and require greater pedal travel distance and effort.**

The brake warning light indicates a low brake fluid level of the brake system and an Anti-lock Braking System (ABS) malfunction.

Low brake fluid warning indicator:

When the ignition switch is placed in the "ON" position, the brake warning light illuminates, and then turns off.

If the brake warning light illuminates while the engine is running, or while driving, and the parking brake is released, it may indicate the brake fluid level is low.

When the brake warning light illuminates while driving, stop the vehicle safely as soon as possible. Stop the engine and check the brake fluid level. If the brake fluid level is at the minimum mark, add brake fluid as necessary. (See "Brake fluid" (P.8-14).)

Anti-lock Braking System (ABS) warning indicator:

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the Anti-lock Braking System (ABS) warning light illuminate, it may indicate the ABS is not functioning properly. Have the brake system checked, and if necessary repaired, by a NISSAN dealer promptly. (See "Anti-lock Braking System (ABS) warning light" (P.2-14).)

Charge warning light

When the ignition switch is in the "ON" position, the charge warning light illuminates and then turns off. This indicates the charging system is operational.

If the charge warning light illuminates while the engine is running, or while driving, it may indicate the charging system is not functioning properly and may need servicing.

When the charge warning light illuminates while driving, stop the vehicle safely as soon as possible. Stop the engine and check the alternator or starter generator (if equipped) belt. If the alternator or starter generator (if equipped) belt is loose, broken or missing, the charging system needs repair. (See "Drive belt" (P.8-12).)

If the alternator or starter generator (if equipped) belt appears to be functioning correctly but the charge warning light remains illuminated, have the charging system checked by a NISSAN dealer promptly.

CAUTION:

Do not continue driving if the alternator or starter generator (if equipped) belt is loose, broken or missing.

Electronic parking brake system warning light

When the ignition switch is in the "ON" position, the electronic parking brake system warning light illuminates and then turns off.

The electronic parking brake system warning light functions for the electronic parking brake system. If the warning light illuminates, it may indicate that the electronic parking brake system is not functioning properly. Have the brake system checked, and if necessary repaired, by a NISSAN dealer promptly.

Electronic parking brake warning light

The electronic parking brake warning light indicates that the electronic parking brake system is operating.

When the ignition switch is placed in the "ON" position, the electronic parking brake warning light illuminates. When the engine is started and the parking brake is released, the warning light turns off.

If the parking brake is not released, the electronic parking brake warning light remains on. Be sure that the electronic parking brake warning light has turned off before driving. (See "Parking brake" (P.3-36).)

If the electronic parking brake warning light illuminates or flashes while the electronic parking brake system warning light illuminates, it may indicate that the electronic parking brake system is not functioning properly. Have the electronic parking brake system checked, and if necessary repaired, by a NISSAN dealer promptly.

Electric power steering warning light

When the ignition switch is in the "ON" position, the electric power steering warning light illuminates. After starting the engine, the electric power steering warning light turns off. This indicates the electric power steering is operational.

If the electric power steering warning light illuminates while the engine is running, it may indicate the electric power steering is not functioning properly and may need servicing. Have the electric power steering checked by a NISSAN dealer.

When the electric power steering warning light illuminates with the engine running, the power assist to the steering will cease operation but you will still have control of the vehicle. At this time, greater steering efforts are required to operate the steering wheel, especially in sharp turns and at low speeds.

(See "Electric power steering" (P.5-170).)

Electric shift control system warning light

When the ignition switch is in the "ON" position, the electric shift control system warning light illuminates, and then turns off. This indicates the electric shift control system is operational.

The electric shift control system warning light illuminates when a malfunction occurs in the electric shift control system. When the master warning light illuminates, the chime sounds and the following message is displayed in the vehicle information display: "Apply parking brake".

When the ignition switch is placed in the "OFF" position, the chime sounds continuously. Ensure the parking brake is applied.

Have the system checked by a NISSAN dealer.

Engine oil pressure warning light

This light warns of low engine oil pressure. When the ignition switch is in the "ON" position, the engine oil pressure warning light illuminates. After starting the engine, the engine oil pressure warning light turns off. This indicates that the oil pressure sensors in the engine are operational.

If the engine oil pressure warning light illuminates or blinks while the engine is running, it may indicate that the engine oil pressure is low.

Stop the vehicle safely as soon as possible. Stop the engine immediately and call a NISSAN dealer.

CAUTION:

- **Running the engine with the engine oil pressure warning light illuminated could cause serious damage to the engine.**
- **The engine oil pressure warning light is not designed to indicate a low oil level. The oil level should be checked using the dipstick. (See "Engine oil" (P.8-9).)**

Hands OFF warning light (if equipped)

When the Steering Assist is activated, it monitors the driver's steering wheel operation. If the steering wheel is not operated or the driver takes his/her hands off the steering wheel for a period of time, the warning light illuminates. If the driver does not operate the steering wheel after the warning light has been illuminated, an audible alert sounds and the warning flashes in the vehicle information display, followed by a quick brake application to request the driver to take control of the vehicle again. If the driver remains unresponsive, the vehicle will automatically turn on the hazard lights and slow to a complete stop. (See "Steering Assist" (P.5-129).)

Intelligent Emergency Braking with Pedestrian Detection system OFF warning light (if equipped)

When the ignition switch is in the "ON" position, the Intelligent Emergency Braking with Pedestrian Detection system OFF warning light illuminates. After starting the engine, the Intelligent Emergency Braking with Pedestrian Detection system OFF warning light turns off.

This light illuminates when the Intelligent Emergency Braking with Pedestrian Detection system is set to OFF on the vehicle information display.

If the light illuminates or flashes when the Intelligent Emergency Braking with Pedestrian Detection system is ON, it may indicate that the system is unavailable. See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) or "Intelligent Forward Collision Warning" (P.5-147).

Low tire pressure warning light (if equipped)

Your vehicle is equipped with a Tire Pressure Monitoring System (TPMS) that monitors the tire pressure of all tires except the spare tire.

The low tire pressure warning light warns of low tire pressure or indicates that the TPMS is not functioning properly.

After the ignition switch is placed in the "ON" position, this light illuminates for about 1 second and turns off.

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. The "Low Tyre Pressure" warning also appears in the vehicle information display.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure to the recommended COLD tire pressure shown on the tire placard. The low tire pressure warning light may not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, reset the tire pressures registered in your vehicle (model with TPMS reset function) and then drive the vehicle at speeds above 25 km/h (16 MPH). These operations are required to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The "Low Tyre Pressure" warning is active as long as the low tire pressure warning light remains illuminated.

Model with TPMS reset function:

TPMS resetting must be also performed after a tire or a wheel is replaced, or the tires are rotated.

Depending on a change in the outside temperature, the low tire pressure warning light may illuminate even if the tire pressure has been adjusted properly. Adjust the tire pressure to the recommended COLD tire pressure again when the tires are cold, and reset the TPMS.

If the low tire pressure warning light still continues to illuminate after the resetting operation, it may indicate that the TPMS is not functioning properly. Have the system checked by a NISSAN dealer.

For additional information, see "Vehicle information display" (P.2-21), "Tire Pressure Monitoring System (TPMS)" (P.5-7) and "Tire Pressure Monitoring System (TPMS)" (P.6-3).

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is placed in the "ON" position. The light will remain on after the 1 minute. Have the system checked by a NISSAN dealer. The "Low Tyre Pressure" warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.

For additional information, see "Tire Pressure Monitoring System (TPMS)" (P.5-7).

WARNING:

- **If the light does not illuminate with the ignition switch placed in the "ON" position, have the vehicle checked by a NISSAN dealer as soon as possible.**

- **If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the tire placard to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat or the TPMS may be malfunctioning. If you have a flat tire, replace it with a spare tire (if equipped) or repair it using the emergency tire puncture repair kit (if equipped) as soon as possible. If no tire is flat and all tires are properly inflated, have the vehicle checked by a NISSAN dealer.**
- **Since the spare tire (if equipped) is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after the 1 minute. Contact your NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **After adjusting the tire pressure, be sure to reset the TPMS. Otherwise, the TPMS will not warn of low tire pressure (model with TPMS reset function).**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**

CAUTION:

- **The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.**
- **If the vehicle is being driven at speeds of less than 25 km/h (16 MPH), the TPMS may not operate correctly.**
- **Be sure to install the specified size of tires to the four wheels correctly.**

Master warning light

When the ignition switch is in the "ON" position, the master warning light illuminates if a warning message appears in the vehicle information display.

See "Vehicle information display" (P.2-21).

Rear Automatic Braking (RAB) system OFF warning light (if equipped)

This light comes on when the ignition switch is placed in the "ON" position. It turns off after the engine is started.

This light illuminates when the RAB system is turned off with the shift position in "R" (Reverse) in the vehicle information display.

If the light illuminates or flashes when the RAB system is on, it may indicate that the system is unavailable. For additional information, see "Rear Automatic Braking (RAB)" (P.5-157).

Seat belt warning light and chime

Type A:

The seat belt warning light and chime remind you to fasten the seat belts.

The light illuminates whenever the ignition switch is placed in the "ON" position, and will remain illuminated until the seat belts are fastened.

The seat belt warning light for the front passenger will illuminate if the seat belt is not fastened when the front passenger's seat is occupied.

When the vehicle speed exceeds 15 km/h (approximately 10 MPH), the light will continue to blink and the chime will sound for a certain period of time unless the driver's seat belt is securely fastened.

When the vehicle speed exceeds 15 km/h (approximately 10 MPH), if the front passenger's seat or rear seat is occupied, the light will continue to blink and the chime will sound for a certain period of time unless the front passenger's seat belt or rear seat belt is securely fastened.

(See "Seat belts" (P.1-12).)

Type B:

The seat belt warning light will immediately illuminate whenever the ignition switch is placed in the "ON" position and any front row occupant's seat belt is not fastened. It will also illuminate if any rear seat belt changes from fastened to unfastened.

If the vehicle speed exceeds 15 km/h (approximately 10 MPH), the light will flash and a chime will sound for a certain period of time or until all occupants are deemed to have their seat belts securely fastened.

(See "Seat belts" (P.1-12).)

Speed [120 km/h (75 MPH)] warning light (if equipped)

This light blinks when the vehicle speed goes over approximately 120 km/h (75 MPH). Be sure to observe the speed limit in the area where you are driving.

Supplemental Restraint System (SRS) air bag warning light

When the ignition switch is in the "ON" position, the Supplemental Restraint System (SRS) air bag warning light illuminates for about 7 seconds and then turns off. This indicates the SRS air bag system is operational.

If any of the following conditions occur, the SRS air bag system and pre-tensioner seat belt need servicing. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

- The SRS air bag warning light remains illuminated after about 7 seconds.
- The SRS air bag warning light does not illuminate at all.

Unless checked and repaired, the SRS air bag system and/or pre-tensioner seat belt may not function properly. (See "Supplemental Restraint System (SRS)" (P.1-37).)

INDICATOR LIGHTS

Adaptive LED headlight indicator light (if equipped)

The adaptive LED headlight indicator light illuminates when the adaptive LED headlight system is turned on and it is operational. (See "Adaptive LED headlight" (P.2-51).)

Automatic brake hold indicator light (white)

Automatic brake hold indicator light (white) illuminates when Automatic brake hold system is on standby. (See "Automatic brake hold" (P.3-38).)

Automatic brake hold indicator light (green)

Automatic brake hold indicator light (green) illuminates when Automatic brake hold system is operating. (See "Automatic brake hold" (P.3-38).)

Front fog light indicator light (if equipped)

The front fog light indicator light illuminates when the front fog lights are on. (See "Fog light switch" (P.2-56).)

High beam assist indicator light (if equipped)

The high beam assist indicator light illuminates when the high beam assist system is turned on and it is operational. (See "High beam assist" (P.2-50).)

High beam indicator light

The high beam indicator light illuminates when the headlight high beam is on. The indicator turns off when the low beam is selected. (See "Headlight and turn signal switch" (P.2-49).)

Hill descent control system on indicator light (if equipped)

When the ignition switch is placed in the "ON" position the hill descent control system on indicator light illuminates briefly and then turns off. This indicates that the hill descent control system is operational.

The light illuminates when the hill descent control system is activated.

If the hill descent control switch is on and the indicator light blinks, the system is not engaged.

If the indicator light does not illuminate or blink when the hill descent control switch is on, the system may not be functioning properly. Have the system checked by a NISSAN dealer.

For additional information, see "Hill descent control system" (P.5-176).

Hill start assist system indicator light

When the ignition switch is in the "ON" position, the hill start assist system indicator light illuminates and then turns off.

This light illuminates when the hill start assist system is operating.

See “Hill Start Assist system” (P.5-175).

Intelligent Driver Alertness indicator light (if equipped)

When the ignition switch is in the “ON” position, the Intelligent Driver Alertness indicator light illuminates. After starting the engine, the Intelligent Driver Alert indicator light turns off. This indicates that the Intelligent Driver Alertness system is operational.

The Intelligent Driver Alertness indicator light will illuminate white when the system is operating. If the light illuminates yellow while the engine is running, it may indicate that the Intelligent Driver Alertness system is not functioning properly. Have the system checked by a NISSAN dealer.

(See “Intelligent Driver Alertness” (P.5-155).)

Low beam indicator light

The low beam indicator light illuminates when the headlight low beam is on. The indicator turns off when the high beam is selected. (See “Headlight and turn signal switch” (P.2-49).)

Malfunction Indicator Light (MIL)

CAUTION:

- **Continuing vehicle operation without proper servicing of the emission control system and/or CVT system could lead to poor driveability, reduced fuel economy, and damage to the emission control system, which may affect the vehicle’s warranty coverage.**
- **Incorrect setting of the emission control system may lead to non-compliance of local and national emission laws and regulations.**

When the ignition switch is in the “ON” position, the Malfunction Indicator Light (MIL) illuminates. After starting the engine, the MIL turns off. This indicates that the engine control system is operational.

When the ignition switch is in the “ON” position, sometimes the MIL may illuminate for 20 seconds and then blink for 10 seconds, without the engine running. This is due to a function of checking the emission control system, and it is not a malfunction. After a few normal drives, this function will not occur and the MIL stays illuminated with the ignition switch in the “ON” position.

If the MIL illuminates while the engine is running, it may indicate that the engine control system and/or CVT system is not functioning properly and may need servicing. Have the vehicle checked, and if necessary repaired, by a NISSAN dealer promptly.

If the MIL blinks while the engine is running, it may indicate a potential malfunction in the engine control system and/or CVT system. In this case, the engine control system and/or CVT system may not function properly and may need servicing. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

Precautions:

To reduce or avoid possible damage to the engine control system and/or CVT system when the MIL blinks:

- Avoid driving at speeds above 70 km/h (43 MPH).
- Avoid sudden acceleration or deceleration.
- Avoid going up steep uphill grades.
- Avoid carrying or towing unnecessary loads.

Rear fog light indicator light (if equipped)

The rear fog light indicator light illuminates when the rear fog light is on. (See “Fog light switch” (P.2-56).)

Slip indicator light

When the ignition switch is in the “ON” position, the slip indicator light illuminates and then turns off.

The light will blink when the Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system or the traction control system is operating, thus alerting the driver that the vehicle is nearing its traction limits. The road surface may be slippery.

If the light illuminates while the VDC/ESP system is on, this light alerts the driver to the fact that the VDC/ESP system’s fail-safe mode is operating, for example the VDC/ESP system may not be functioning properly. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly. If a malfunction

occurs in the system, the VDC/ESP system function will be canceled but the vehicle is still driveable. For additional information, see "Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system" (P.5-172) of this manual.

Small light indicator light

This indicator illuminates when the headlight switch is turned to the "AUTO", or position and the front clearance lights, rear combination lights, license plate lights or headlights are on. The indicator turns off when these lights are turned off.

Turn signal/hazard indicator lights

The turn signals/hazard indicator lights blink when the turn signal switch lever or hazard indicator flasher switch is "ON". (See "Headlight and turn signal switch" (P.2-49) or "Hazard warning flasher switch" (P.6-2).)

Vehicle Dynamic Control (VDC) off indicator light/Electronic Stability Program (ESP) off indicator light

The light comes on when the VDC/ESP is turned OFF. This indicates that the VDC/ESP system and traction control system are not operating.

Turn the VDC/ESP on using the vehicle information display, or restart the engine and the system will operate normally. (See "Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system" (P.5-172).)

The light also comes on when placing the ignition switch in the "ON" position. The light will turn off after about 2 seconds if the system is operational. If the light stays on or comes on along with the indicator light while you are driving, have the system checked by a NISSAN dealer.

WARNING:

The VDC/ESP should remain on unless freeing a vehicle from mud or snow.

While the VDC/ESP system is operating, you might feel a slight vibration or hear the system working when starting the vehicle or accelerating, but this is not a malfunction.

AUDIBLE REMINDERS

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the warning sound is heard.

Stop/Start System or Idling Stop System reminder buzzer (if equipped)

The Stop/Start System or Idling Stop System reminder buzzer will sound if the engine hood is opened while the Stop/Start System or Idling Stop System is activated. (See "Stop/Start System or Idling Stop System" (P.5-24).)

NOTE:

Be sure to close the engine hood. When the engine hood is open, the engine will be in the normal stopped state. In this case, restart the engine with the ignition switch.

Light reminder chime

The light reminder chime will sound when the headlight switch is placed in the or position after the engine was turned off, and the driver's door is opened with the light is on.

Turn the headlight switch to the "AUTO" or "OFF" (if equipped) position when you leave the vehicle.

Door lock warning chime

When the chime sounds, be sure to check both the vehicle and the Intelligent Key. See "Troubleshooting guide" (P.3-12).

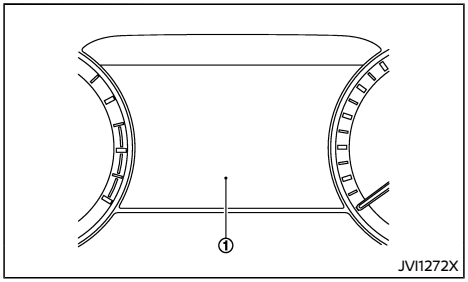
Driving Aid chimes (if equipped)

An audible alert/chime may be heard if any of the following systems (if equipped) are active:

- Lane Departure Warning (LDW)
- Intelligent Lane Intervention
- Emergency Lane Assist (ELA)
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention
- Rear Cross Traffic Alert (RCTA)
- Intelligent Cruise Control (ICC)
- ProPILOT
- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning
- Intelligent Driver Alertness
- Rear Automatic Braking (RAB)
- Parking sensor (sonar) system

For additional information, refer to the "5. Starting and driving" section of this manual.

VEHICLE INFORMATION DISPLAY



Example

The vehicle information display ① is located as shown above, and it displays the warnings and information. The following items are also displayed if the vehicle is equipped with them:

- Vehicle setting
- Trip computer information
- Driver Assistance
- Cruise control system information
- ProPILOT
- Intelligent Key operation information
- Audio information
- Navigation - turn by turn
- Indicators and warnings
- Tire pressure information
- Other information

NOTE:

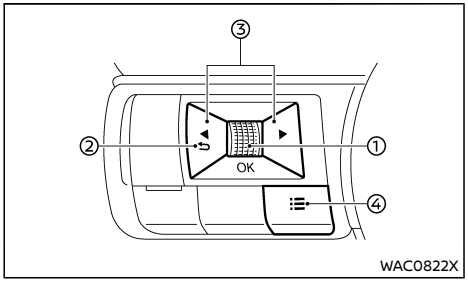
The wording displayed in the vehicle information display in this manual is mostly written in British (UK) English. When American (US) English is selected in the language setting, there may be some wording and/or spelling differences.

For language setting, see "Unit/Language" (P.2-28).

CHANGING THE METER SCREEN VIEW (models with full-screen display)

For the model with full-screen display, the meter screen view can be changed to expand the vehicle information display area. See "Changing the meter screen view (models with full-screen display)" (P.2-9) for how to change the view.

HOW TO USE THE VEHICLE INFORMATION DISPLAY



The vehicle information display can be changed using the scroll dial ①, ↩ ②, and ◀ ▶ ③ located on the steering wheel.

① Scroll dial - navigate through the items and change or select an item in vehicle information display

this scroll dial allows up/down navigation and push to select

② ↩ - go back to the previous menu

③ ◀ ▶ - change from one display screen to the next (i.e. trip, Fuel economy)

④ ☰ - display the "Shortcut Menu" screen

SHORTCUT MENU

When the ☰ button ④ is pushed, the "Shortcut Menu" screen appears on the vehicle information display. Select the menu by rotating the scroll dial ① and push it.

The following menus are available:

- Driver Assist Custom (if equipped)
  Allows user to enable or disable the system settings in the "Custom Mode Setup" menu.
- Emergency Lane (if equipped)
  Allows user to turn the Emergency Lane Assist (ELA) system ON/OFF.
- Change Display View (if equipped)
  Allows user to change the meter screen view. (See "Changing the meter screen view (models with full-screen display)" (P.2-9).)
- Audio Source (if equipped)
  Allows user to select the available audio source. (See the separate NissanConnect Owner's Manual for the audio system.)
- Custom Mode Setup (if equipped)
  Allows user to set up preferred driver assist modes.
- Driver Assistance (if equipped)
  Allows user to change some functions in the "Driver Assistance" settings. (See "Driver Assistance" (P.2-22).)
- Personal Display (if equipped)
  Allows user to change the "Personal Display" settings. (See "Personal Display" (P.2-24).)

STARTUP DISPLAY

When the ignition switch is placed in the "ON" position, the vehicle information display may display the following screens if the vehicle is equipped with them:

- Home
- Blank
- Speed
- Drive Computer
- Fuel Economy
- ECO Pedal Guide
- Tyre Pressures
- 4x4-i Torque Split
- Stop/Start
- Variable Compression Turbo
- Navigation
- Compass
- Audio
- Driving Aids
- Intelligent Cruise Control (ICC)
- ProPILOT
- Traffic Sign/Speed Limit Sign
- Warnings
- Settings

Warnings will only appear if there are any present. For more information on warnings and indicators, see "Vehicle information display warnings and indicators" (P.2-30).

To control what items appear in the vehicle information display, see "Settings" (P.2-22).

SETTINGS

The setting mode allows user to change the information displayed in the vehicle information display and some settings:

- ESP Setting/VDC Setting
- Driver Assistance
- Personal Display (if equipped)
- Head-Up Display (if equipped)
- ECO Settings
- Tyre Pressures/TPMS Setting (if equipped)
- Clock
- Vehicle Settings
- Maintenance
- Display Settings/Customize Display
- Unit/Language
- I-Key Link/Key-Linked Settings (if equipped)
- Factory Reset

NOTE:

The displayed wording is mostly written in British (UK) English. When American (US) English is selected in the language setting, there may be some wording and/or spelling differences.

ESP Setting/VDC Setting

To change the setting, use the scroll dial ① to select and push it.

- System

  Allows user to turn the Electronic Stability Program (ESP)/Vehicle Dynamic Control (VDC) system ON or OFF. By default the ESP/VDC system will be turned ON. If the ESP/VDC system is turned off, the ESP/VDC OFF indicator light will illuminate.

NOTE:

The vehicle should be driven with the ESP/VDC system ON for most driving conditions. (See "Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system" (P.5-172).)

Driver Assistance

To change the status, warnings or turn on or off any of the systems/warnings displayed in the "Driver Assistance" menu, use the scroll dial ① to select and change a menu item:

- Steering Assist (if equipped)
- Lane (if equipped)
- Blind Spot (if equipped)
- Emergency Brake (if equipped)
- Traffic Sign/Speed Limit Sign (if equipped)
- Traffic Sign Assist (if equipped)
- CRUISE Navi Link (if equipped)
- Speed Limit Link (if equipped)
- Speed Link Offset (if equipped)
- Parking Aids (if equipped)
- Rear Cross Traffic Alert (if equipped)
- Driver Attention Alert (if equipped)
- Timer Alert
- Low Temp. Alert
- Steering Effort (if equipped)

Steering Assist (if equipped):

Allows user to turn the Steering Assist ON/OFF. (See "ProPILOT/ProPILOT Assist" (P.5-109).)

Lane (if equipped):

- Warning (if equipped)

  Allows user to turn the Lane Departure Warning (LDW) system ON/OFF.
- Intervention (if equipped)

  Allows user to turn the Intelligent Lane Intervention system ON/OFF.

- Emergency Lane (if equipped)
  Allows user to turn the Emergency Lane Assist (ELA) system ON/OFF.
- Advanced Lane (if equipped)
  Allows user to turn the Advanced Lane function of the ELA system ON/OFF.
- Lane Sensitivity (if equipped)
  Allows user to select an item from below.
  — Strong
  — Normal
  — Mild
- Vibration level/Steering Vibration
  Allows user to select an item from below.
  — High
  — Middle
  — Low

(See "Lane Departure Warning (LDW)" (P.5-49), "Intelligent Lane Intervention" (P.5-53), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Emergency Lane Assist (ELA) system (Type B)" (P.5-65).)

Blind Spot (if equipped):

- Warning
  Allows user to turn the Blind Spot Warning (BSW) system ON/OFF.
- Intervention (if equipped)
  Allows user to turn the Intelligent Blind Spot Intervention system ON/OFF.

(See "Blind Spot Warning (BSW)" (P.5-72) and "Intelligent Blind Spot Intervention" (P.5-77).)

Emergency Brake (if equipped):

Models without Rear Automatic Braking (RAB) system:

Allows user to turn the Intelligent Emergency Braking with Pedestrian Detection system and Intelligent Forward Collision Warning system ON/OFF.

Models with Rear Automatic Braking (RAB) system:

- Front/Emergency Braking
  Allows user to turn the Intelligent Emergency Braking with Pedestrian Detection system and Intelligent Forward Collision Warning system ON/OFF.
- Rear/Rear Auto Braking
  Allows user to turn the Rear Automatic Braking (RAB) system ON/OFF.

(See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136), "Intelligent Forward Collision Warning" (P.5-147) and "Rear Automatic Braking (RAB)" (P.5-157).)

Traffic Sign/Speed Limit Sign (if equipped):

Allows user to turn the Traffic Sign Recognition (TSR) ON/OFF. (See "Traffic Sign Recognition (TSR) (Type B)" (P.5-45).)

Traffic Sign Assist (if equipped):

- Speed Limit
  Allows user to customize the TSR system.
  — Warning
  — Info Only
  — OFF
- New Limit Alert
  Allows user to turn the notification (chime) ON/OFF.
- Database Version
  Allows user to confirm the version of the map data.
- Update by USB
  Allows user to update the map data.
  — 1. Verify Vehicle Info
  — 2. Install New Data
- License Information
  Allows user to confirm the map license information.
  — License Expiration
  — License State

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).)

CRUISE Navi Link (if equipped):

Allows user to turn the CRUISE Navi Link function ON/OFF.

Speed Limit Link (if equipped):

Models without ProPILOT with Navi-link:

Allows user to turn the Speed Limit Link function ON/OFF.

Models with ProPILOT with Navi-link:

Allows user to customize the Speed Limit Link function.

- OFF
- Prompt
- Auto

Speed Link Offset (if equipped):

Allows user to set whether the speed limit used by the Speed Limit Link function will be accepted exactly or with some tolerance.

Parking Aids (if equipped):

To change the status or turn on or off any of the systems displayed in the "Parking Aids" menu, use the scroll dial ① to select and change a menu item:

- Moving Object (if equipped)
  Allows user to turn the Moving Object Detection (MOD) ON/OFF.

- Display/Auto Show Sonar
  Allows user to turn the parking sensor (sonar) system display ON/OFF.
- Front (if equipped)
  Allows user to turn the front sensors ON/OFF.
- Rear
  Allows user to turn the rear sensors ON/OFF.
- Distance
  Allows user to select the sensor's detection distance (Far/Long, Medium or Near/Short).
- Volume
  Allows user to select the volume of the tone (High, Medium or Low).

(See "Moving Object Detection (MOD)" (P.4-17) and "Parking sensor (sonar) system" (P.5-177).)

Rear Cross Traffic Alert (if equipped):

Allows user to turn the Rear Cross Traffic Alert (RCTA) system ON/OFF. (See "Rear Cross Traffic Alert (RCTA)" (P.5-85).)

Driver Attention Alert (if equipped):

Allows user to turn the Intelligent Driver Alertness on or off. (See "Intelligent Driver Alertness" (P.5-155).)

Timer Alert:

Allows user to adjust the Timer Alert or reset.

- (Current Time)/(Set Time)
- Reset

Low Temp. Alert:

Allows user to turn the Low Temperature Alert function ON/OFF.

Steering Effort (if equipped):

Allows user to adjust the power steering to reduce or increase steering effort.

- Drive Mode
- Standard
- Sport

Personal Display (if equipped)

To change the display in the "Personal Display" menu, use the scroll dial ① to select and change a menu item:

- Blank
- Navigation (if equipped)
- Time to Destination (if equipped)
- Fuel Economy
  — Since Reset/Manual Reset1
  — Since Start/Manual Reset2
  — Since Refuel/Auto Refuel
- Trip
  — Since Reset/Manual Reset1
  — Since Start/Manual Reset2
  — Since Refuel/Auto Refuel
- Gear Position
- Average Speed
  — Since Reset/Manual Reset1
  — Since Start/Manual Reset2
  — Since Refuel/Auto Refuel

Head-Up Display (if equipped)

To change the status or turn on or off any of the systems displayed in the "Head-Up Display" menu, use the scroll dial ① to select and change a menu item:

- Brightness
- Height
- Rotation
- Contents Selection
  — Navigation (if equipped)
  — Driving Aids
  — Traffic Sign/Speed Limit Sign (if equipped)
  — Audio
  — Telephone / TEL/SMS
- Reset

(See "Head Up Display (HUD)" (P.2-46).)

ECO Settings

This setting allows user to change the ECO mode system settings.

To change the status or turn on or off any of the systems displayed in the "ECO Settings" menu, use the scroll dial ① to select and change a menu item:

- ECO Drive Mode/ECO Customize
  — ECO Cruise Control (if equipped)
  — Stop/Start / Idling stop (if equipped)
  — ECO Climate Control/Air Conditioning
- ECO Info Settings/ECO Drive Assist
  — ECO Indicator
  — ECO Drive Report
- View History
  To reset the View History:
  1) Select "View History" using the scroll dial ① and push it.
  2) Push the scroll dial ①.
  3) Select "Yes" by pushing the scroll dial ①.
- Tyre ECO advice (if equipped)
  Push the scroll dial ① to turn the "Tyre ECO advice" ON/OFF.

Tyre Pressures/TPMS Setting (if equipped)

The settings in this menu are all related to the Tire Pressure Monitoring System (TPMS). (See "Tire Pressure Monitoring System (TPMS)" (P.5-7) and "Tire placard" (P.9-10).)

- Target Front (if equipped)
- Target Rear (if equipped)
- Tyre Pressure Unit
- Calibrate/TPMS Reset (if equipped)

Target Front (if equipped):

The "Target Front" tire pressure is the pressure specified for the front tires on the tire placard.

Use the scroll dial ① to select and change the value for the "Target Front" tire pressure.

Target Rear (if equipped):

The "Target Rear" tire pressure is the pressure specified for the rear tires on the tire placard.

Use the scroll dial ① to select and change the value for the "Target Rear" tire pressure.

Tyre Pressure Unit:

The unit for tire pressure that is shown in the vehicle information display can be changed to:

- psi
- bar
- kPa
- kgf/cm^2

Use the scroll dial ① to select and change the unit.

If necessary, refer to the following table to convert between units.

kPa	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340
psi	29	30	32	33	35	36	38	39	41	42	44	45	46	48	49
bar	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4
kgf/cm^2	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4

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When the tire pressure unit is changed, the unit for the turbo charger boost pressure gauge (if equipped) is also changed. (See "Variable Compression Turbo" (P.2-12).)

Calibrate/TPMS Reset (if equipped):

The tire pressure is affected by the temperature of the tire; the tire temperature increases when the car is driven. To be able to accurately monitor the tire air leakage and to prevent false TPMS warnings due to changes in temperature, the TPMS system uses temperature sensors in the tires to perform temperature compensation calculations.

On rare occasions it may be necessary to recalibrate the TPMS system reference temperature. This operation should only be performed when the actual tire pressure has been adjusted, while the current ambient temperature is significantly different to the current calibration temperature. (See "Tire Pressure Monitoring System (TPMS)" (P.5-7).)

Use the scroll dial ① to start or cancel the calibration process. (See "TPMS resetting (model with TPMS reset function)" (P.5-10).)

Clock

Allows user to adjust the clock settings and time within the vehicle information display.

- Display
- Clock Mode (if equipped)
- Clock Format
- Summer Time/Daylight Saving (if equipped)
- Time Zone (if equipped)
- Set Clock Manually (if equipped)

The clock may also be set in the center display. See "Audio main operation" (P.4-40) (if equipped) or the separate NissanConnect Owner's Manual.

Vehicle Settings

The vehicle settings allows user to change settings for the following menus.

- Power Back Door (if equipped)
- Lighting
- Turn indicator (if equipped)
- Locking
- Wipers
- Alarm System (if equipped)

- Driving Position (if equipped)
- Rear Door Alert (if equipped)
- Mirror Fold (if equipped)

The vehicle settings can be changed using the scroll dial ①.

Power Back Door (if equipped):

This allows user to turn the power back door ON or OFF.

Lighting:

The "Lighting" menu has the following options:

- Welcome Light
  The welcome lighting can be set to be ON or OFF. Use the scroll dial ① to turn this feature ON or OFF.
- Auto Room Lamp
  The interior light can be set to be ON or OFF. Use the scroll dial ① to turn this feature ON or OFF.
- Mood Lighting/Accent Lighting (if equipped)
  The brightness of the Mood Lighting can be adjusted. Use the scroll dial ① to select the brightness.
- Light Sensitivity/Auto Headlight (if equipped)
  The sensitivity of the Intelligent Auto Headlight can be adjusted. Use the scroll dial ① to select the required sensitivity. The following options are available:
  — Earliest
  — Earlier
  — Standard
  — Later
- Light Off Delay (if equipped)
  The duration of the automatic headlights can be changed from 0 to 180 seconds. Use the scroll dial ① to change the duration.

Turn indicator (if equipped):

The "3 flashes" overtaking feature can be set to be ON or OFF. Use the scroll dial ① to turn this feature ON or OFF.

Locking:

The "Locking" menu has the following options:

- I-Key Door Lock/Ext. Door Switch (if equipped)
  When this item is turned on, the lock or capacitive unlock sensors (on the front door handles) and the request switch are activated. Use the scroll dial ① to activate or deactivate this function.
- Selective Unlock
  When this item is turned on, only the corresponding door is unlocked when using the capacitive unlock sensor on the door handles or the request switch (if equipped). All the doors can be unlocked if the lock sensor is touched within 5 seconds after using the capacitive unlock sensor or the request switch is pushed again within 5 seconds after pushing the request switch. When this item is turned to off, all the doors will be unlocked when using the capacitive unlock sensor or the request switch once. Use the scroll dial ① to activate or deactivate this function.
  If the approach unlock function (if equipped) is activated while the selective unlock function is turned on, the selective unlock function is deactivated automatically. If the selective unlock function is activated while the approach unlock function is turned on, the approach unlock function is deactivated automatically.
- Horn beeps on lock (if equipped)
  When this item is turned on, the horn will chirp and the hazard indicators will flash twice when locking the vehicle with the Intelligent Key. Use the scroll dial ① to activate or deactivate this function.
- Walk Away Lock (if equipped)
  When this item is turned on, the walk away lock function is activated. Use the scroll dial ① to activate or deactivate this function. (See "Walk away lock function " (P.3-10).)
- Approach Unlock (if equipped)
  When this item is turned on, the approach unlock function is activated. Use the scroll dial ① to activate or deactivate this function. If the approach unlock function is activated while the selective unlock function is turned on, the selective unlock function is deactivated automatically. If the selective unlock function is activated while the approach unlock function is turned on, the approach unlock function is deactivated automatically. (See "Approach unlock function" (P.3-11).)

Wipers:

The "Wipers" menu has the following options:

- Speed Dependent (if equipped)
  The "Speed Dependent" feature can be activated or deactivated. Use the scroll dial ① to turn this feature ON or OFF.
- Auto Wipe/Rain Sensor (if equipped)
  The "Auto Wipe"/"Rain Sensor" feature can be activated or deactivated. Use the scroll dial ① to turn this feature ON or OFF.
- Reverse Link
  The "Reverse Link" wiper feature can be set to be ON or OFF. Use the scroll dial ① to turn this feature ON or OFF.

Alarm System (if equipped):

The "Alarm System" menu has the following options:

- Always ON
  When this item is selected, the ultrasonic sensor will activate each time the alarm is set.
- Ask on Exit
  When this item is selected, the alarm system will provide the choice to disable the ultrasonic sensor after the ignition switch is placed in the "OFF" position.
- Disable Once
  When this item is selected, the ultrasonic sensor will be disabled until the next time the ignition switch is placed in the "ON" position.

Driving Position (if equipped):

- Exit Seat Slide
  Allows user to turn this feature ON or OFF. (See "Memory seat" (P.3-35).)

Rear Door Alert (if equipped):

Allows user to select an item below.

- Horn & Alert
- Alert Only
- OFF

Mirror Fold (if equipped):

Allows user to select an item below.

- Auto Fold Off
- Unfold at Ignition
- Unfold at Unlock

Maintenance

The maintenance mode allows user to check the distance to oil change or set alerts for the reminding of maintenance intervals. To change an item:

Select "Maintenance" using the scroll dial ① and push it.

- Service/Oil Control System
- Air Filter/Oil and Filter
- Tyre
- Other

Service/Oil Control System:

This menu informs the distance to oil change. Never exceed one year or the following distance between oil change intervals:

- 15,000 km (9,000 miles) for the PR25DD engine (for Mexico, New Zealand and South Africa)
- 10,000 km (6,000 miles) for the PR25DD engine (except for Mexico, New Zealand and South Africa)
- 15,000 km (9,000 miles) for the KR15DDT engine

Display when ignition is "ON"	Display timing	Action Required
Engine Oil Service due in xxx km (miles)	Remaining oil life is less than 1,500 km (940 miles), 1,000 km (625 miles), 500 km (312.5 miles), 400 km (250 miles), 300 km (187.5 miles), 200 km (125 miles), 100 km (62.5 miles).	Plan to have your vehicle serviced.
Engine Oil Service due	Remaining oil life is 0 km (0 miles).	Have your vehicle serviced within two weeks or less than 800 km (500 miles).

The oil change interval cannot be adjusted manually.

The distance to oil change interval is calculated depending on the driving conditions and set automatically by the oil control system. A reminder will be displayed when approaching the end of the service interval.

When the Factory Reset option is selected in the vehicle information display, the oil control system will also be reset to initial value. Please change the engine oil when Factory Reset is selected.

CAUTION:

If the oil replacement indicator is displayed, change the engine oil within two weeks or less than 800 km (500 miles).

Operating the vehicle with deteriorated oil can damage the engine.

To reset oil control system:

1. Place the ignition switch in the "ON" position.
2. Push the ◀ and ▶ buttons on the steering wheel until "Settings" appears in the vehicle information display. Use the scroll dial ① to select "Maintenance". Then, push the scroll dial ①.
3. Select the "Service"/"Oil Control System" and push the scroll dial ①.
4. Push the scroll dial ① according to the reset instructions displayed at the bottom of the screen.

When the user sets an alert for changing the engine oil in an other menu, reset both "Service"/"Oil Control System" and the menu after changing the engine oil.

Air Filter/Oil and Filter:

This indicator appears when user set distance comes for changing the air filter or engine oil and filter. You can set or reset the distance for checking or replacing these items. For scheduled maintenance items and intervals, see a separate maintenance booklet.

Tyre:

This indicator appears when the user set distance comes for replacing tires. You can set or reset the distance for replacing tires.

WARNING:

The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. (See "Changing tires and wheels" (P.8-29).) Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.

Other:

This indicator appears when the user set distance comes for checking or replacing maintenance items other than the engine oil, air filter, oil filter and tires. Other maintenance items can include such a thing as tire rotation. You can set or reset the distance for checking or replacing the items.

Display Settings/Customize Display

This setting allows user to choose from the various meter selections.

The settings can be changed using the scroll dial ①.

Contents Selection/Main Menu Selection:

Displays available screens that can be shown in the vehicle information display.

Route Guidance (if equipped):

To change the setting, use the scroll dial ① to select and push it.

- Alert(s)

The "Alert(s)" allows user to turn the Navigation Settings alerts on or off.

AUTO Cruise Display/Transition (Cruise) (if equipped):

This allows user to turn the cruise screen transition on or off.

Welcome Effect:

The "Welcome Effect" displays the available welcome effect setting.

- Gauges (if equipped)
- Animation

Operation Guidance:

The "Operation Guidance" displays the available operation guidance settings.

- Lights
- Wiper
  - Front
  - Rear
- High beam assist (if equipped)
- Adaptive Headlight (if equipped)
- Seat Memory (if equipped)
- Speed limiter (if equipped)
- Cruise Control (if equipped)

Unit/Language

The units or language that are shown in the vehicle information display can be changed:

- Distance/Fuel / Mileage/Fuel
- Tyre Pressures (if equipped)
- Temperature
- Language

Use the scroll dial ① to select and change the units of the vehicle information display.

Distance/Fuel / Mileage/Fuel:

The unit for the mileage that is shown in the vehicle information display can be changed.

- miles, MPG (if equipped)
- km, l/100km
- km, km/l
- miles, MPG(UK) (if equipped)
- miles, MPG(US) (if equipped)

Use the scroll dial ① to select and change the unit.

Tyre Pressures (if equipped):

The unit for tire pressures that is shown in the vehicle information display can be changed to:

- psi
- bar
- kPa
- kgf/cm^2

(See "Tyre Pressures/TPMS Setting" (P.2-25).)

When the tire pressure unit is changed, the unit for the turbo charger boost pressure gauge (if equipped) is also changed. (See "Variable Compression Turbo" (P.2-12).)

Temperature:

The temperature that is shown in the vehicle information display can be changed from:

- °C
- °F

Use the scroll dial ① to toggle choices.

Language:

The language of the vehicle information display can be changed.

Use the scroll dial ① to select and change the language of the vehicle information display.

I-Key Link/Key-Linked Settings (if equipped)

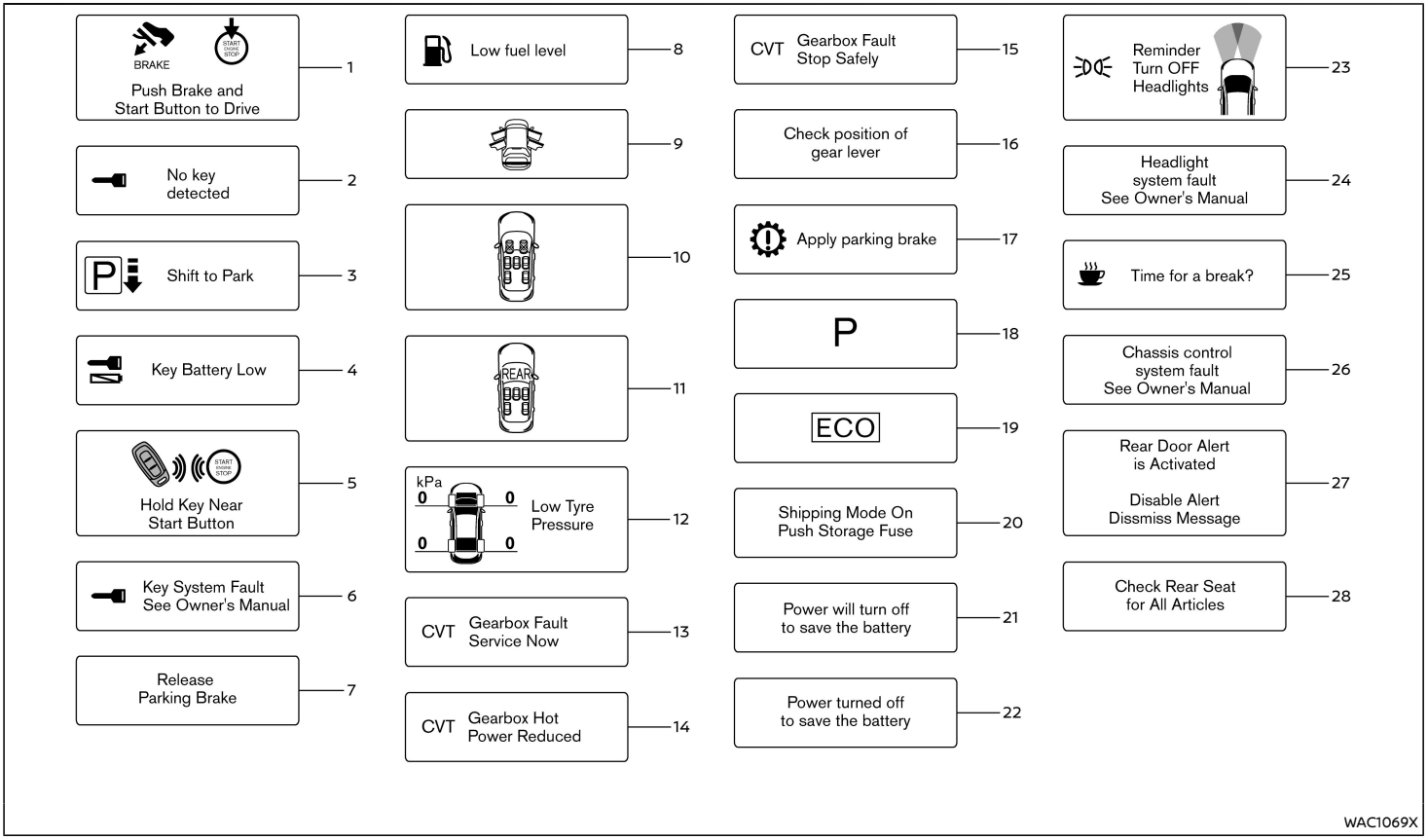
This can be turned ON/OFF using the scroll dial ①. It will display the key synchronized and in use for this vehicle.

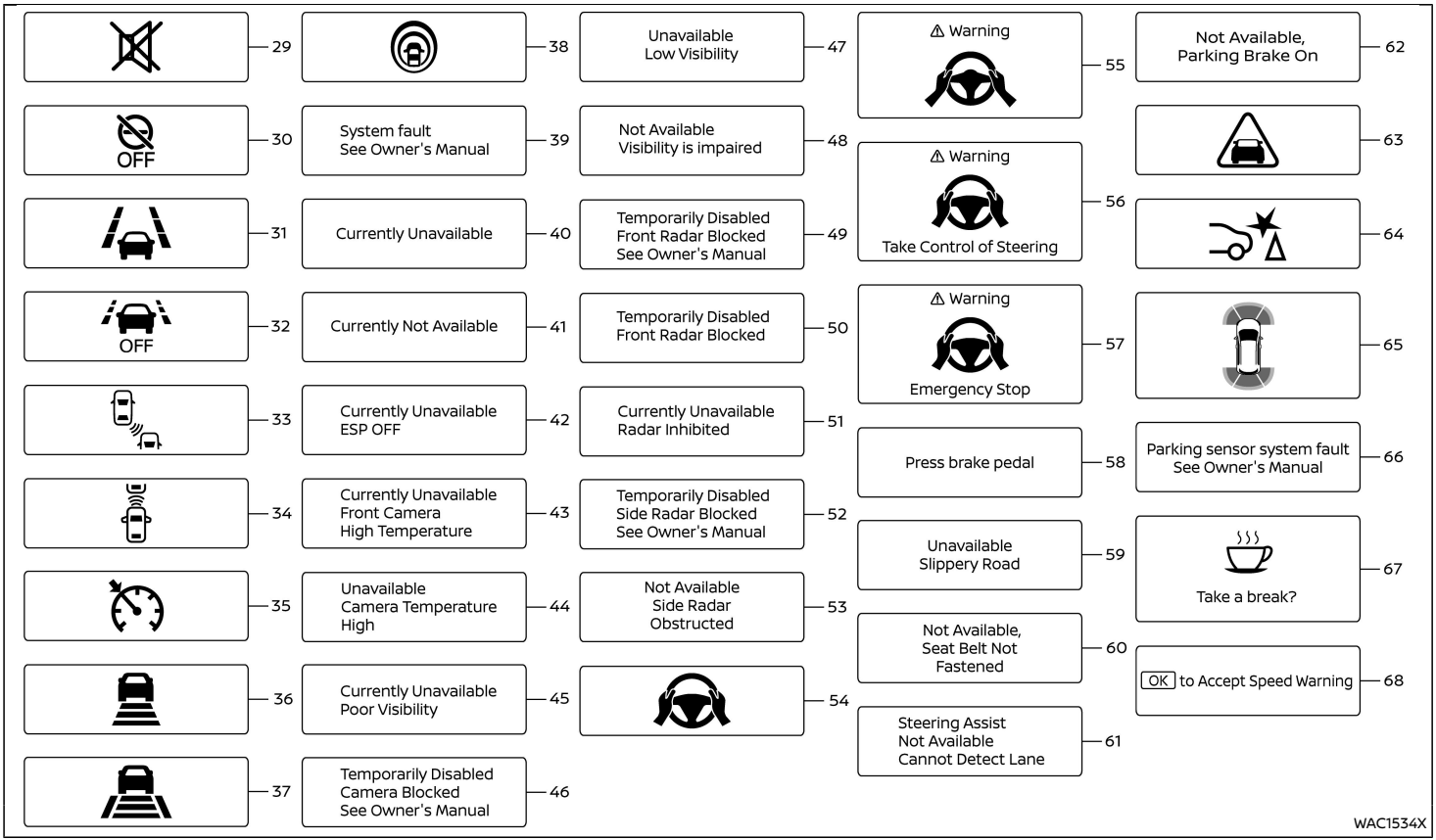
Factory Reset

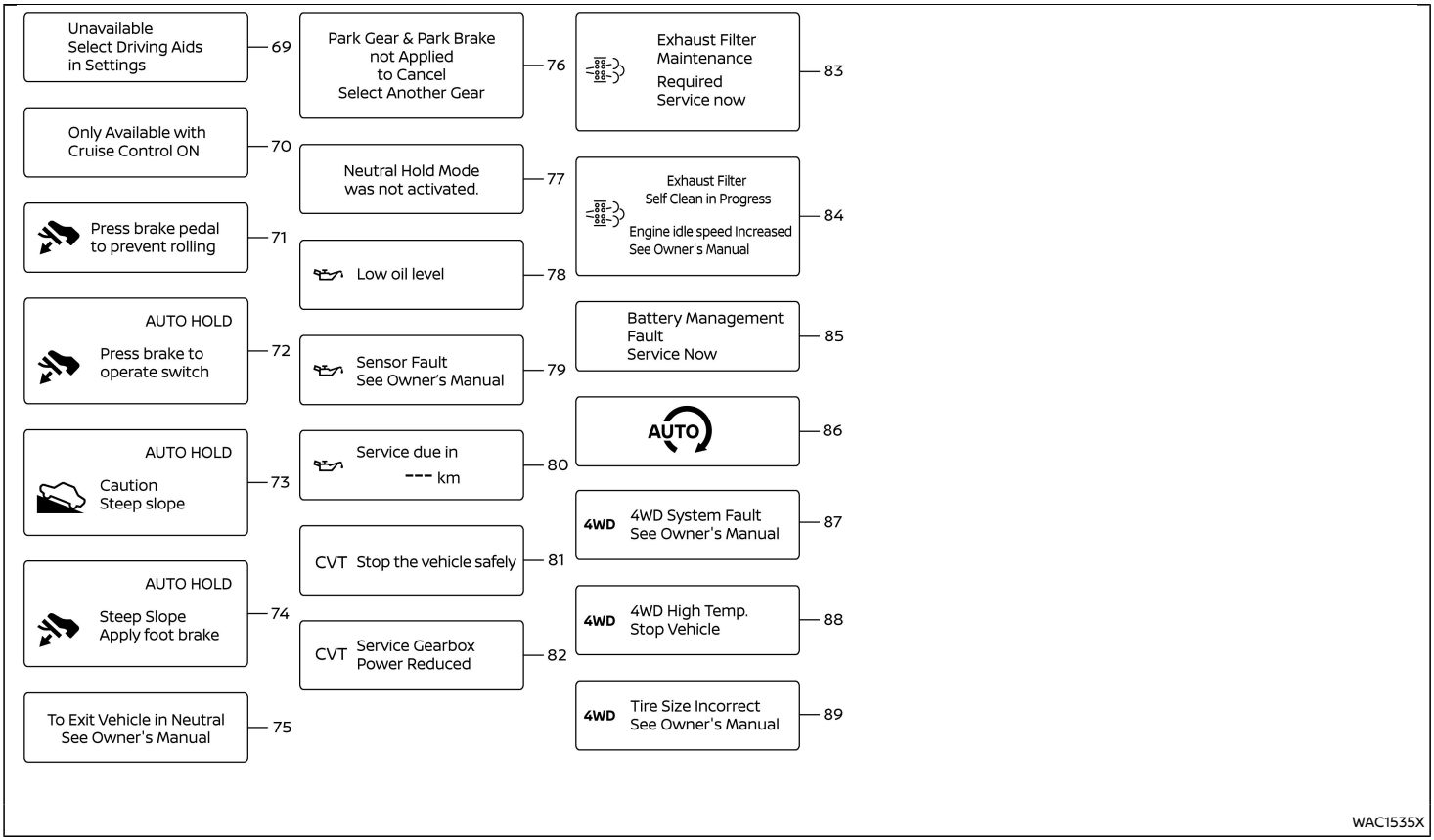
The settings in the vehicle information display can be reset back to the factory default. To reset the vehicle information display:

1. Select "Factory Reset" using the scroll dial ① and push it.
2. Select "Yes" to return all settings back to default by pushing the scroll dial ①.

VEHICLE INFORMATION DISPLAY WARNINGS AND INDICATORS




29
OFF
30
31
OFF
32
33
34
35
36
37
38
System fault
See Owner's Manual
39
Currently Unavailable
40
Currently Not Available
41
Currently Unavailable
ESP OFF
42
Currently Unavailable
Front Camera
High Temperature
43
Unavailable
Camera Temperature
High
44
Currently Unavailable
Poor Visibility
45
Temporarily Disabled
Camera Blocked
See Owner's Manual
46
Unavailable
Low Visibility
47
Not Available
Visibility is impaired
48
Temporarily Disabled
Front Radar Blocked
See Owner's Manual
49
Temporarily Disabled
Front Radar Blocked
50
Currently Unavailable
Radar Inhibited
51
Temporarily Disabled
Side Radar Blocked
See Owner's Manual
52
Not Available
Side Radar
Obstructed
53
54
⚠ Warning
55
⚠ Warning
Take Control of Steering
56
⚠ Warning
Emergency Stop
57
Press brake pedal
58
Unavailable
Slippery Road
59
Not Available,
Seat Belt Not
Fastened
60
Steering Assist
Not Available
Cannot Detect Lane
61
Not Available,
Parking Brake On
62
63
64
65
Parking sensor system fault
See Owner's Manual
66
Take a break?
67
OK to Accept Speed Warning
68
WAC1534X


Unavailable
Select Driving Aids
in Settings
69
Only Available with
Cruise Control ON
70
Press brake pedal
to prevent rolling
71
AUTO HOLD
Press brake to
operate switch
72
AUTO HOLD
Caution
Steep slope
73
AUTO HOLD
Steep Slope
Apply foot brake
74
To Exit Vehicle in Neutral
See Owner's Manual
75
Park Gear & Park Brake
not Applied
to Cancel
Select Another Gear
76
Neutral Hold Mode
was not activated.
77
Low oil level
78
Sensor Fault
See Owner's Manual
79
Service due in
--- km
80
CVT Stop the vehicle safely
81
CVT Service Gearbox
Power Reduced
82
Exhaust Filter
Maintenance
Required
Service now
83
Exhaust Filter
Self Clean in Progress
Engine idle speed Increased
See Owner's Manual
84
Battery Management
Fault
Service Now
85
AUTO
86
4WD 4WD System Fault
See Owner's Manual
87
4WD 4WD High Temp.
Stop Vehicle
88
4WD Tire Size Incorrect
See Owner's Manual
89
WAC1535X

NOTE:

- **The displayed images may differ depending on the model.**
- **The displayed messages are written in British (UK) English. When American (US) English is selected in the language setting, there may be some wording and/or spelling differences.**

1. Push Brake and Start Button to Drive indicator

This indicator appears when the shift position is in the "P" (Park) position.

This indicator means that the engine will start by pushing the ignition switch with the brake pedal depressed. You can start the engine directly in any position of the ignition switch.

2. No key detected warning

This warning appears when the door is closed with the Intelligent Key left outside the vehicle and the engine is running. Make sure that the Intelligent Key is inside the vehicle.

See "Intelligent Key system" (P.3-6) for more details.

3. Shift to Park warning (if equipped)

This warning appears when the door is opened while the shift position is other than "P" (Park).

If this warning appears, push the park button to engage the "P" (Park) position.

An inside warning chime will also sound. (See "Intelligent Key system" (P.3-6).)

4. Key Battery Low warning

This warning appears when the Intelligent Key battery is running out of power.

If this indicator appears, replace the battery with a new one. See "Intelligent Key battery" (P.8-19).

5. Hold Key Near Start Button indicator

This indicator appears when the Intelligent Key battery is running out of power and when the Intelligent Key system and vehicle are not communicating normally.

If this indicator appears, touch the ignition switch with the Intelligent Key while depressing the brake pedal. (See "Intelligent Key battery discharge" (P.5-15).)

6. Key System Fault See Owner's Manual warning

This warning appears if there is a malfunction in the Intelligent Key system.

If this warning appears while the engine is stopped, the engine cannot be started. If this warning appears while the engine is running, the vehicle can be driven. However, it is recommended that you visit a NISSAN dealer for repair as soon as possible.

7. Release Parking Brake warning

This warning appears when the accelerator pedal is depressed when the electronic parking brake automatic release function cannot be used. Release the electronic parking brake manually.

8. Low fuel level warning

This warning appears when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches 0 (Empty). There will be a small reserve of fuel in the tank when the fuel gauge needle reaches 0 (Empty).

9. Door/back door open warning

This warning appears if any of the doors and/or the back door are open or not closed securely. The vehicle icon indicates which door or the back door is open on the display.

10. Seat belt warning (if equipped)

This warning appears after the ignition switch is placed in the "ON" position, until the seat belt is fastened.

For the driver's seat, if the buckle is fastened, the corresponding graphic will appear green. If the buckle is not fastened, the corresponding graphic will appear red. For front passenger's and rear seats, if there is no occupant on the seat, the corresponding seat belt graphic will appear gray. When one of the seats has been seated with passenger, if the buckle is fastened, the corresponding seat belt graphic will appear green. If the buckle is not fastened or is changed from buckled to unbuckled, the corresponding seat belt graphic will appear red. If this occurs while the vehicle speed exceeds 15 km/h (approximately 10 MPH), a buzzer will sound. When certain objects are placed on the front passenger's seat and/or rear seats, they may cause the warning to turn on.

For precautions on seat belt usage, see "Seat belts" (P.1-12).

11. Rear seat belt warning (if equipped)

This warning appears for a certain period of time when the ignition switch is placed in the "ON" position while any rear seat belt is unfastened.

The driver can acknowledge the display by pushing the scroll dial on the steering wheel. It will also display if any rear seat belt changes from fastened to unfastened. The display will remain until acknowledged by the driver pushing the scroll dial on the steering wheel. If the vehicle speed exceeds 15 km/h (approximately 10 MPH), this warning will reappear. It is not possible to acknowledge the display while the chime is audible.

If the buckle is unfastened, the corresponding seat belt graphic will appear red.

If the buckle is fastened, the corresponding seat belt graphic will appear green.

For precautions on seat belt usage, see "Seat belts" (P.1-12).

12. Low Tyre Pressure warning (if equipped)

This warning appears when the low tire pressure warning light in the meter illuminates and low tire pressure is detected. The warning appears each time the ignition switch is placed in the "ON" position as long as the low tire pressure warning light remains illuminated. If this warning appears, stop the vehicle and adjust the pressure to the recommended COLD tire pressure shown on the tire placard. (See "Low tire pressure warning light" (P.2-16) and "Tire Pressure Monitoring System (TPMS)" (P.5-7).)

13. Gearbox Fault Service Now warning

This warning appears when there is a malfunction with the CVT system. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

14. Gearbox Hot Power Reduced warning

The CVT has a high fluid temperature protection mode. If the fluid temperature becomes too high (for example, climbing steep grades in high temperatures with heavy loads), engine power and, under some conditions, vehicle speed will be decreased automatically to reduce the chance of transmission damage. Vehicle speed can be controlled with the accelerator pedal, but the engine and vehicle speed may be reduced.

15. Gearbox Fault Stop Safely warning

This warning appears when there is a malfunction with the CVT system. If this warning appears, stop the vehicle in a safe place. Have the system checked. It is recommended you visit a NISSAN dealer for this service.

16. Check position of gear lever warning

This warning appears if the system cannot detect the shift position. Make sure the vehicle is placed in a position properly. Have the system checked. It is recommended you contact a NISSAN dealer for this service.

17. Apply parking brake warning

This warning appears if a malfunction occurs in the electric shift control system. Contact a NISSAN dealer as soon as possible. When parking the vehicle, make sure that the parking brake is applied. If the parking brake is not applied, the ignition switch may not be turned off.

18. Continuously Variable Transmission (CVT) position indicator

This indicator shows the CVT shift position.

In the manual shift mode, when the transmission does not shift to the selected gear due to a transmission protection mode, the CVT position indicator will blink and a chime will sound.

See "Continuously Variable Transmission (CVT)" (P.5-19) for further details.

19. Drive Mode Selector indicator

When a driving mode is selected using the Drive Mode Selector, the selected mode indicator is displayed.

- OFF-ROAD (4WD/AWD models)
- SNOW (4WD/AWD models)
- STANDARD (2WD models)
- AUTO (4WD/AWD models)
- ECO
- SPORT

(See "Drive Mode Selector" (P.5-16).)

20. Shipping Mode On Push Storage Fuse warning (if equipped)

This warning may appear if the extended storage switch is not pushed in. When this warning appears, push in the extended storage switch to turn off the warning. (See "Extended storage switch" (P.8-23).)

21. Power will turn off to save the battery warning

Under the specific conditions, this warning may appear after the ignition switch is in the "ON" position for a certain period of time.

22. Power turned off to save the battery warning

Under the specific conditions, this warning may appear after the ignition switch is automatically turned "OFF" to save the battery.

23. Reminder Turn OFF Headlights warning

This warning appears when the driver side door is opened with the headlight switch is left ON and the ignition switch is placed in the "OFF" position. Place the headlight switch in the "AUTO" or "OFF" (if equipped) position. For additional information, (See "Headlight and turn signal switch" (P.2-49).)

24. Headlight system fault See Owner's Manual warning

This warning appears if the LED headlights are malfunctioning. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

25. Time for a break? indicator

This indicator appears when the set Timer Alert activates. You can set the time for up to 6 hours.

26. Chassis control system fault See Owner's Manual warning

This warning appears if the chassis control module detects a malfunction in the chassis control system. Have the system checked. It is recommended that you visit a NISSAN dealer for this service. (See "Chassis control" (P.5-174).)

27. Rear Door Alert is Activated indicator (if equipped)

When the system is enabled, this message appears when the Rear Door Alert system is active and can remind the driver to check the rear seat.

- Using the steering switch, the driver can select "Dismiss Message" to clear the display for a period of time.
- Using the steering switch, the driver can select "Disable Alert" to disable the horn alert and the message for the remainder of the current trip.

For additional information, see "Rear Door Alert" (P.2-61).

WARNING:

Selecting "Dismiss Message" during a stop within a trip temporarily dismisses the message for that stop without turning the system off. Alerts can be provided for other stops during the trip. Selecting "Disable Alert" turns off the Rear Door Alert system for the remainder of a trip and no audible alert will be provided.

NOTE:

This system is disabled until the driver enables it using the settings menu. See "Vehicle Settings" (P.2-25).

28. Check Rear Seat for All Articles indicator (if equipped)

When the system is enabled, this message appears when the vehicle comes to a complete stop, the shift position is placed from the "D" (Drive) to "P" (Park), and the driver exits the vehicle. This message alerts the driver, after a period of time, to check for items in the rear seat after the audible alert has been provided.

NOTE:

This system is disabled until the driver enables it using the settings menu. See "Vehicle Settings" (P.2-25).

29-30. Traffic Sign Recognition (TSR) system indicators (if equipped)

These indicators show the status of the Traffic Sign Recognition (TSR) system (Type A). The status is shown by the color. (See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).)

31. Lane Departure Warning (LDW)/Intelligent Lane Intervention/Emergency Lane Assist (ELA) indicator (if equipped)

This indicator appears when the following systems (if equipped) are engaged.

- Lane Departure Warning (LDW)
- Intelligent Lane Intervention
- Emergency Lane Assist (ELA)

For the ELA system (Type A), this indicator also appears when the ignition switch is placed in the "ON" position. It turns off after the engine is started.

(See "Lane Departure Warning (LDW)" (P.5-49), "Intelligent Lane Intervention" (P.5-53), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Emergency Lane Assist (ELA) system (Type B)" (P.5-65).)

32. Emergency Lane Assist (ELA) OFF indicator (if equipped)

This indicator appears when the Emergency Lane Assist (ELA) system is turned off. (See "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Emergency Lane Assist (ELA) system (Type B)" (P.5-65).)

33. Blind Spot Warning (BSW)/Intelligent Blind Spot Intervention indicator (if equipped)

This indicator appears when the Blind Spot Warning (BSW) and/or Intelligent Blind Spot Intervention (if equipped) systems are engaged.

(See "Blind Spot Warning (BSW)" (P.5-72) or "Intelligent Blind Spot Intervention" (P.5-77).)

34. Vehicle ahead detection indicator (if equipped)

This indicator shows the status of the following systems:

- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning

(See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) or "Intelligent Forward Collision Warning" (P.5-147).)

35. Cruise indicator (if equipped)

Models without Intelligent Cruise Control (ICC) system:

This indicator shows the cruise control system status. The status is shown by the color.

(See "Cruise control" (P.5-92).)

Models with Intelligent Cruise Control (ICC) system:

This indicator shows the conventional (fixed speed) cruise control mode status. The status is shown by the color.

(See "Conventional (fixed speed) cruise control mode" (P.5-106) or "Conventional (fixed speed) cruise control mode" (P.5-134).)

36. Intelligent Cruise Control (ICC) system status indicator (if equipped)

This indicator shows the status of the Intelligent Cruise Control (ICC) system (without ProPILOT system). The status is shown by the color and shape.

(See "Intelligent Cruise Control (ICC)" (P.5-94).)

37. Speed control status/set distance/lane marker indicator (if equipped)

This indicator shows the status of the Intelligent Cruise Control (ICC) system and the detection of the lane markers. The status is shown by the color and shape. (See "ProPILOT/ProPILOT Assist" (P.5-109).)

38. Intelligent Lane Intervention ON/Intelligent Blind Spot Intervention ON/ProPILOT system status indicator (if equipped)

This indicator appears when the following systems (if equipped) are turned on:

- Intelligent Lane Intervention
- Intelligent Blind Spot Intervention
- ProPILOT

See "Intelligent Lane Intervention" (P.5-53), "Intelligent Blind Spot Intervention" (P.5-77) or "ProPILOT/ProPILOT Assist" (P.5-109).

39. System fault See Owner's Manual warning (if equipped)

This warning appears when the following systems (if equipped) malfunction.

- Traffic Sign Recognition (TSR)
- Rear Automatic Braking (RAB)
- Rear Cross Traffic Alert (RCTA)
- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning
- Lane Departure Warning (LDW)
- Intelligent Lane Intervention
- Emergency Lane Assist (ELA)
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention
- Intelligent Cruise Control (ICC)
- ProPILOT
- Steering Assist
- Intelligent Driver Alertness

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41), "Traffic Sign Recognition (TSR) (Type B)" (P.5-45), "Rear Automatic Braking (RAB)" (P.5-157), "Rear Cross Traffic Alert (RCTA)" (P.5-85), "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136), "Intelligent Forward

Collision Warning" (P.5-147), "Lane Departure Warning (LDW)" (P.5-49), "Intelligent Lane Intervention" (P.5-53), "Blind Spot Warning (BSW)" (P.5-72), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58), "Emergency Lane Assist (ELA) system (Type B)" (P.5-65), "Intelligent Blind Spot Intervention" (P.5-77), "Intelligent Cruise Control (ICC)" (P.5-94), "ProPILOT/ProPILOT Assist" (P.5-109), "Intelligent Cruise Control (ICC)" (P.5-118), "Steering Assist" (P.5-129) or "Intelligent Driver Alertness" (P.5-155).)

40. Currently Unavailable warning (if equipped)

This warning appears under the following conditions when the Traffic Sign Recognition (TSR) system (Type A) or the Intelligent Emergency Braking with Pedestrian Detection system (Type A) is activated.

For the TSR system:

- When the data communication between systems is temporarily interrupted

For the Intelligent Emergency Braking with Pedestrian Detection system:

- When the system check for the warning function did not end normally
- When the vehicle is towed

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41) or "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).)

41. Currently Not Available warning (if equipped)

This warning appears when the Intelligent Lane Intervention (if equipped), the Intelligent Blind Spot Intervention (if equipped) or the Intelligent Cruise Control (ICC) system (if equipped) becomes unavailable in the following conditions:

- The Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system is turned off.
- The SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models).

This warning also appears when the Emergency Lane Assist (ELA) (Type A) (if equipped) becomes unavailable when the direction of the front camera is significantly misaligned.

For additional information, refer to "Intelligent Lane Intervention" (P.5-53), "Intelligent Blind Spot Intervention" (P.5-77), "Intelligent Cruise Control (ICC)" (P.5-94), "Intelligent Cruise Control (ICC)" (P.5-118) or "Emergency Lane Assist (ELA) system (Type A)" (P.5-58).

42. Currently Unavailable ESP OFF warning (if equipped)

This warning appears when the Electronic Stability Program (ESP) system is turned off with the following systems activated:

- Emergency Lane Assist (ELA) (Type A)
- Intelligent Emergency Braking with Pedestrian Detection (Type A)

(See "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).)

43. Currently Unavailable Front Camera High Temperature warning (if equipped)

This warning appears if the interior temperature of the vehicle has reached such a high temperature that the sensor for the following systems (if equipped) can no longer function reliably.

- Traffic Sign Recognition (TSR) (Type A)
- Emergency Lane Assist (ELA) (Type A)
- Intelligent Emergency Braking with Pedestrian Detection (Type A)

Once the interior temperature has reached normal levels, the warning should disappear.

If the warning continues to display, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).)

44. Unavailable Camera Temperature High warning (if equipped)

This warning appears if the interior temperature of the vehicle has reached such a high temperature that the sensor for the following systems (if equipped) can no longer function reliably.

- Traffic Sign Recognition (TSR) (Type B)
- Lane Departure Warning (LDW)
- Intelligent Lane Intervention
- Intelligent Blind Spot Intervention
- Steering Assist

Once the interior temperature has reached normal levels, the warning should disappear.

If the warning continues to display, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For additional information, refer to "Traffic Sign Recognition (TSR) (Type B)" (P.5-45), "Lane Departure Warning (LDW)" (P.5-49), "Intelligent Lane Intervention" (P.5-53), "Intelligent Blind Spot Intervention" (P.5-77) or "Steering Assist" (P.5-129).

45. Currently Unavailable Poor Visibility warning (if equipped)

This warning appears when the Intelligent Emergency Braking with Pedestrian Detection system (Type A) is activated and strong light, such as sunlight or high beams from oncoming vehicles, enter the front camera.

(See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).)

46. Temporarily Disabled Camera Blocked See Owner's Manual warning (if equipped)

This warning appears when the Traffic Sign Recognition (TSR) system, the Emergency Lane Assist (ELA) system (Type A) and/or the Intelligent Emergency Braking with Pedestrian Detection system (Type A) is turned off automatically under the following conditions:

- The camera area of the windshield is covered with moisture, snow, ice, dirt or some other object
- The camera area of the windshield is continuously covered with dirt, etc.

Clean the windshield glass of the camera area. Use the wipers and the defogger to help clear the windshield glass.

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41), "Traffic Sign Recognition (TSR) (Type B)" (P.5-45), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).)

47. Unavailable Low Visibility indicator (if equipped)

This message may appear when the Steering Assist system and/or Emergency Lane Assist (ELA) system (Type B) is engaged.

Under the following conditions, the Steering Assist system and/or Emergency Lane Assist (ELA) system (Type B) is automatically canceled:

- The camera area of the windshield is fogged up or covered with dirt, water, drops, ice, snow, etc.
- Strong light, such as sunlight or high beams from oncoming vehicles, enter the front camera

48. Not Available Visibility is impaired indicator (if equipped)

This message may appear when the Steering Assist system is engaged.

Under the following conditions, the Steering Assist system is automatically canceled:

- When the wiper (HI) operates.
- When lane markers in the traveling lane cannot be correctly detected for a period of time due to such items as a snow rut, reflection of light on a rainy day or several unclear lane markers are present.

If you want to use the Steering Assist system again, cancel the ProPILOT system and set it again when lane markers are clearly visible.

49. Temporarily Disabled Front Radar Blocked See Owner's Manual warning (if equipped)

If the front radar sensor area on the front of the vehicle is covered with dirt or obstructed, making it impossible to detect a vehicle ahead, the following systems (if equipped) automatically turned off.

- Emergency Lane Assist (ELA) (Type A)
- Intelligent Emergency Braking with Pedestrian Detection (Type A)
- Intelligent Forward Collision Warning (Type A)

If the warning message appears, park the vehicle in a safe location and turn the engine off.

Check to see if the sensor area is blocked. If the sensor area is blocked, remove the blocking material. Restart the engine. If the warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

(See "Emergency Lane Assist (ELA) system (Type A)" (P.5-58), "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) or "Intelligent Forward Collision Warning" (P.5-147).)

50. Temporarily Disabled Front Radar Blocked warning (if equipped)

If the front radar sensor area on the front of the vehicle is covered with dirt or obstructed, making it impossible to detect a vehicle ahead, the following systems (if equipped) automatically turned off.

- Emergency Lane Assist (ELA) (Type B)
- Intelligent Cruise Control (ICC)

- ProPILOT
- Intelligent Emergency Braking with Pedestrian Detection (Type B)
- Intelligent Forward Collision Warning (Type B)

If the warning message appears, park the vehicle in a safe location and turn the engine off.

Check to see if the sensor area is blocked. If the sensor area is blocked, remove the blocking material. Restart the engine. If the warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

For more details, see "Emergency Lane Assist (ELA) system (Type B)" (P.5-65), "Intelligent Cruise Control (ICC)" (P.5-94), "ProPILOT/ProPILOT Assist" (P.5-109), "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) or "Intelligent Forward Collision Warning" (P.5-147).

51. Currently Unavailable Radar Inhibited warning (if equipped)

This warning appears when the front radar sensor for the Intelligent Emergency Braking with Pedestrian Detection system (Type A) and Intelligent Forward Collision Warning system (Type A) pick up interference from another radar source.

(See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136) and "Intelligent Forward Collision Warning" (P.5-147).)

52. Temporarily Disabled Side Radar Blocked See Owner's Manual warning (if equipped)

This warning appears when the Emergency Lane Assist (ELA) system (Type A) becomes unavailable because a radar blockage is detected.

(See "Emergency Lane Assist (ELA) system (Type A)" (P.5-58).)

53. Not Available Side Radar Obstructed warning (if equipped)

This warning appears when the following systems (if equipped) become unavailable because a radar blockage is detected.

- Emergency Lane Assist (ELA) system (Type B)
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention
- Rear Cross Traffic Alert (RCTA)

(See "Emergency Lane Assist (ELA) system (Type B)" (P.5-65), "Blind Spot Warning (BSW)" (P.5-72), "Intelligent Blind Spot Intervention" (P.5-77) or "Rear Cross Traffic Alert (RCTA)" (P.5-85).)

54. Steering Assist indicator (if equipped)

This indicator appears when the Steering Assist system is engaged.

See "ProPILOT/ProPILOT Assist" (P.5-109).

55-57. Hands on detection warning (if equipped)

This warning may appear when the Steering Assist system is engaged and the following condition(s) occur:

- When not holding the steering wheel
- When there is no steering wheel operation

Hold on the steering wheel immediately. When the steering operation is detected, the warning turns off and the Steering Assist function is automatically restored. For additional information, refer to "ProPILOT/ProPILOT Assist" (P.5-109).

58. Press brake pedal indicator (if equipped)

This message may appear when the ProPILOT system is engaged and the following condition occurs:

- While the vehicle is stopped by the ProPILOT system, the driver's door is opened but the electronic parking brake was not activated.

Step on the brake pedal immediately.

59. Unavailable Slippery Road warning (if equipped)

This warning appears when the following systems (if equipped) become unavailable because the road is slippery.

- Intelligent Lane Intervention
- Intelligent Blind Spot Intervention
- Intelligent Cruise Control (ICC)
- ProPILOT

(See "Intelligent Lane Intervention" (P.5-53), "Intelligent Blind Spot Intervention" (P.5-77), "Intelligent Cruise Control (ICC)" (P.5-94) or "Intelligent Cruise Control (ICC)" (P.5-118).)

60. Not Available, Seat Belt Not Fastened indicator (if equipped)

This message may appear when the ProPILOT system is engaged.

Under the following condition, the ProPILOT system is automatically canceled:

- When the driver's seat belt is not fastened.

The ProPILOT system cannot be used when the driver's seat belt is not fastened.

61. Steering Assist Not Available Cannot Detect Lane indicator (if equipped)

This indicator may appear when the Steering Assist system is engaged. The Steering Assist system is automatically canceled when the lane markers in the traveling lane cannot be correctly detected for a period of time due to such items as a snow rut, reflection of light on a rainy day or several unclear lane markers are present.

If you want to use the Steering Assist system again, cancel the ProPILOT system and set it again when lane markers are clearly visible.

62. Not Available, Parking Brake On indicator (if equipped)

This message may appear when the ProPILOT system is engaged.

Under the following condition, the ProPILOT system is automatically canceled:

- The electronic parking brake is applied.

The above system cannot be used when the electronic parking brake is activated.

63. Intelligent Emergency Braking emergency warning indicator (if equipped)

This warning indicator appears along with an audible warning, when the Intelligent Emergency Braking with Pedestrian Detection system detects the possibility of a forward collision.

See "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136).

64. Rear Automatic Braking (RAB) system warning indicator (if equipped)

This warning indicator appears to indicate the status of the Rear Automatic Braking (RAB) system.

See "Rear Automatic Braking (RAB)" (P.5-157).

65. Parking sensor (sonar) system indicator (if equipped)

This indicator appears to indicate the status of the parking sensor (sonar) system.

See "Parking sensor (sonar) system" (P.5-177).

66. Parking sensor system fault See Owner's Manual warning (if equipped)

This warning appears when there is a malfunction with the parking sensor (sonar) system. (See "Parking sensor (sonar) system" (P.5-177).)

67. Take a break? indicator (if equipped)

This indicator appears when the Intelligent Driver Alertness system detect that the driver attention is decreasing. (See "Intelligent Driver Alertness" (P.5-155).)

68. OK to Accept Speed Warning indicator (if equipped)

This indicator appears when the Traffic Sign Recognition (TSR) system (Type A) sounds an overspeed warning chime. Slow down or push the scroll dial on the steering wheel to stop the warning chime.

(See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).)

69. Unavailable Select Driving Aids in Settings indicator (if equipped)

This indicator appears if neither the Intelligent Lane Intervention system nor the Intelligent Blind Spot Intervention system is enabled on the settings menu.

70. Only Available with Cruise Control ON indicator (if equipped)

This indicator appears when the Steering Assist switch is pushed while the Intelligent Cruise Control (ICC) system is not turned on. (See "ProPILOT/ProPILOT Assist" (P.5-109).)

71. Press brake pedal to prevent rolling warning

This warning appears in the following situations:

- The driver tries to release the electronic parking brake manually without depressing the brake pedal.
- The vehicle is stopped on a steep hill and there is a possibility of moving backward, even if the electronic parking brake is applied.
- This warning appears and chime sounds if the vehicle moves while Automatic brake hold function is activated. Apply the foot brake to stop the vehicle moving.

72. Press brake to operate switch indicator

This indicator appears if Automatic brake hold switch is pushed without depressing the brake pedal while the automatic brake hold function is activated. Depress the brake pedal and push the switch to deactivate Automatic brake hold function. (See "Automatic brake hold" (P.3-38).)

73. Caution Steep slope indicator

This indicator appears and chime sounds when Automatic brake hold function is activated while the vehicle is on a steep hill. Apply the foot brake to stop the vehicle moving. (See "Automatic brake hold" (P.3-38).)

74. Steep Slope Apply foot brake indicator

This indicator appears and chime sounds if "Caution Steep slope indicator" has appeared over about 3 minutes. Then, the parking brake will automatically be applied and the brake force of the automatic brake hold will be released, and vehicle may move or roll away unexpectedly. Apply the foot brake to stop the vehicle moving. (See "Automatic brake hold" (P.3-38).)

75. Neutral Hold Mode guidance indicator (if equipped)

This indicator appears when the ignition switch is placed in the "OFF" position while the shift position is in the "N" (Neutral) position (Neutral hold mode is available). (See "Neutral hold mode function" (P.5-21).)

76. Neutral Hold Mode activated indicator (if equipped)

This indicator appears when the Neutral hold mode is activated. To exit the Neutral hold mode, place the vehicle in other than "N" (Neutral) position. (See "Neutral hold mode function" (P.5-21).)

77. Neutral Hold Mode was not activated indicator (if equipped)

This indicator appears when the Neutral hold mode is unavailable. To activate the Neutral hold mode, wait for a while without shifting and then perform the operations again. (See "Neutral hold mode function" (P.5-21).)

78. Low oil level warning

This warning appears when the engine oil level is low. Warm up the engine on a level surface. After at least 10 minutes have passed since the engine was stopped, use the engine oil dipstick to check the oil level. (See "Engine oil" (P.8-9).) If the oil level is low, add the engine oil or change the engine oil.

If the warning appears again before reaching the oil change interval shown in a separate maintenance booklet check the oil level. When the warning appears and the oil level is low, have the vehicle checked. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the vehicle is not on a level surface, accurate measurement of the oil level may not be possible. If "Low oil level" warning message appears, but the level shown by the oil dipstick is normal, move the vehicle to a level surface and stop the engine. After at least 10 minutes have passed, open the driver's door and place the ignition switch in the "ON" position. If the "Low oil level" warning message appears again, add the engine oil or change the engine oil, according to the instructions described above.

79. Sensor Fault See Owner's Manual warning

This warning appears when the engine oil level sensor may be malfunctioning. It is recommended you contact a NISSAN dealer immediately.

80. Engine Oil Service due in – – – km (mile) indicator

This distance to oil change is displayed if the distance to oil change is less than 100 km (62 miles).

81. Stop the vehicle safely warning (if equipped)

This warning appears when the CVT system judges the vehicle is reversed on an uphill road with the shift position in "D" (Drive), or moved forward on a downhill road with the shift position in "R" (Reverse). The engine may stall, so stop the vehicle movement by depressing the brake pedal.

82. Service Gearbox Power Reduced warning (if equipped)

This warning appears when the CVT power is reduced. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

83-84. Exhaust Filter indicator (if equipped)

These messages will appear when the Gasoline Particulate Filter (GPF) becomes saturated or clogged. Under certain driving conditions, automatic regeneration of the filter may be difficult to occur. See "Gasoline Particulate Filter (GPF)" (P.5-6) or contact a NISSAN dealer.

85. Battery Management Fault Service Now warning (if equipped)

This warning appears when the battery system may be malfunctioning. Have the system checked. It is recommended that you visit a NISSAN dealer for this service.

86. Stop/Start System or Idling Stop System indicator (if equipped)

This indicator shows the Stop/Start System or Idling Stop System status. (See "Stop/Start System or Idling Stop System" (P.5-24).)

87. 4WD System Fault See Owner's Manual warning (if equipped)

This warning appears when the Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) system is not functioning properly while the engine is running. Reduce vehicle speed and have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service. (See "Intelligent 4X4" (P.5-164).)

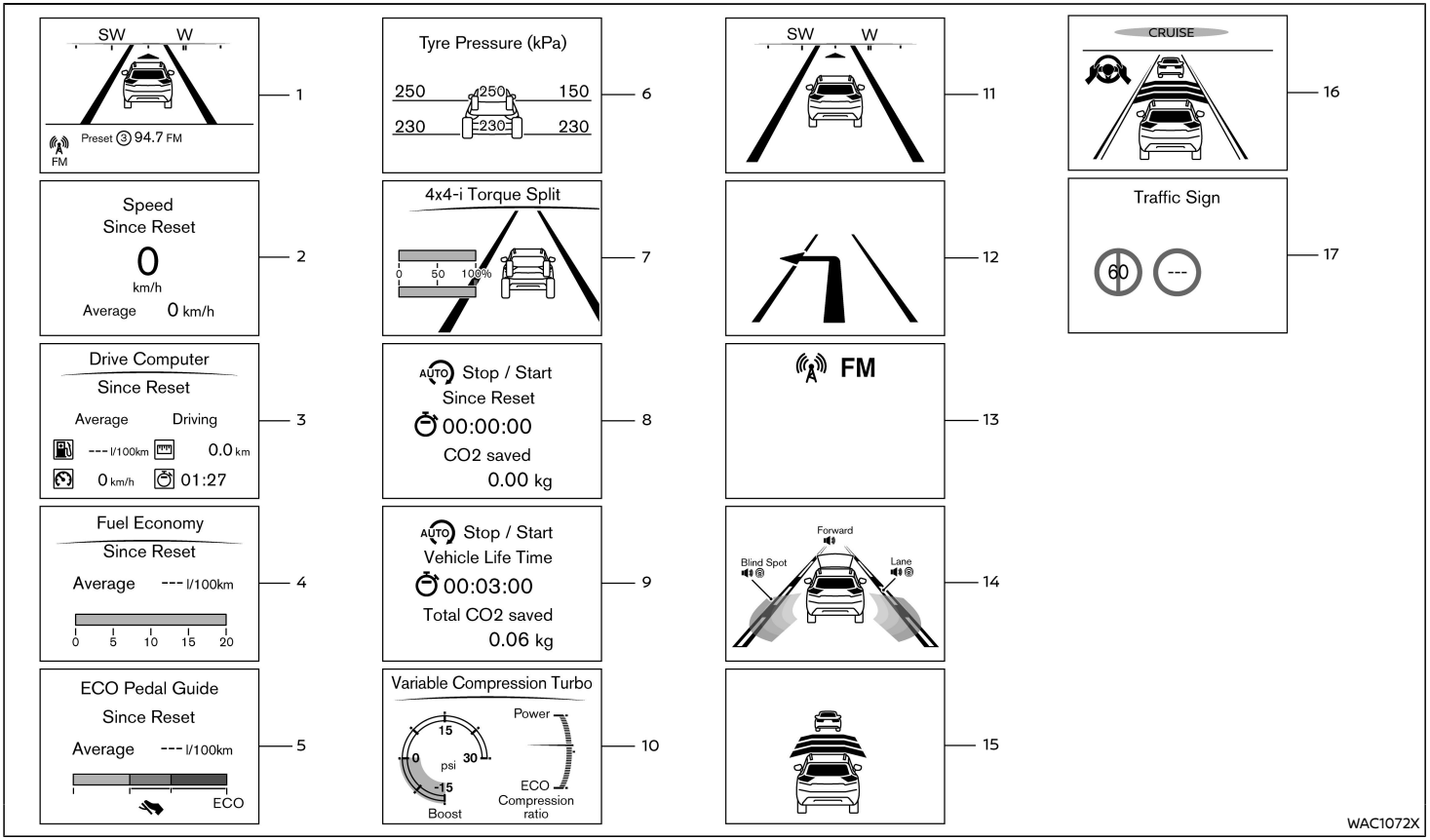
88. 4WD High Temp. Stop vehicle warning (if equipped)

This warning appears when the oil temperature of the powertrain parts increases due to the difference in rotation between the front and rear wheels is large (wheel slip), such as when driving on rough roads, driving through sand or mud, or freeing a stuck vehicle. If this warning is displayed, stop the vehicle with the engine idling, as soon as it is safe to do so. In these cases, the 4WD/AWD changes to 2WD to protect the powertrain parts. Then if the warning turns off, you can continue 4WD/AWD driving. (See "Intelligent 4X4" (P.5-164).)

89. Tire Size Incorrect: See Owner's Manual warning (if equipped)

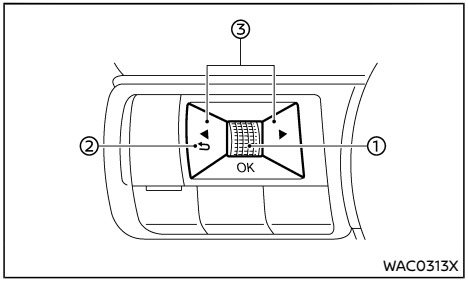
This warning may appear if there is a large difference between the diameters of front and rear wheels and tires. Pull off the road in a safe area, with the engine idling. Check that all the tire sizes, brand, construction and tread pattern are the same, that the tire pressures are correct and that the tires are not excessively worn. If you have any problems, change tires or adjust tire pressures correctly. Do not select the SNOW or OFF-ROAD mode with the Drive Mode Selector and do not drive fast. (See "Intelligent 4X4" (P.5-164).)

TRIP COMPUTER



NOTE:

- **The displayed images may differ depending on the model.**
- **The displayed wording is mostly written in British (UK) English. When American (US) English is selected in the language setting, there may be some wording and/or spelling differences.**



Switches for the trip computer are located on the left side of the steering wheel.

① Scroll dial - navigate through the items and change or select an item in vehicle information display

this scroll dial allows up/down navigation and push to select

② ↩ - go back to the previous menu

③ ◀ ▶ - change from one display screen to the next (i.e. trip, Fuel economy)

1. Home

The Home mode shows the following information.

- Vehicle speed
- Navigation (if equipped)
- Audio

2. Speed and Average speed (if equipped)

The Speed and Average speed mode shows the current vehicle speed and the average vehicle speed since the last reset. The Speed and Average speed mode has three modes of operation. You can switch between Since Reset/Manual Reset1, Since Start/Manual Reset2 or Since Refuel/Auto Refuel by pushing the scroll dial ①. (The displayed mode varies depending on the model.)

Since Reset, Manual Reset1 or Manual Reset2 can be reset manually by using the scroll dial ①.

Since Start will be reset automatically each time the engine is started.

Since Refuel or Auto Refuel will be reset automatically each time when refueling.

3. Drive Computer

Average fuel consumption:

The average fuel consumption shows the average fuel consumption since the last reset.

Average speed:

The average speed shows the average vehicle speed since the last reset.

Trip odometer:

The trip odometer shows the total distance the vehicle has been driven since the last reset.

Elapsed time:

The elapsed time shows the time since the last reset.

The Drive Computer mode has three modes of operation. You can switch between Since Reset/Manual Reset1, Since Start/Manual Reset2 or Since Refuel/Auto Refuel by pushing the scroll dial ①. (The displayed mode varies depending on the model.)

Since Reset, Manual Reset1 or Manual Reset2 can be reset manually by using the scroll dial ①.

Since Start will be reset automatically each time the engine is started.

Since Refuel or Auto Refuel will be reset automatically each time when refueling.

4. Fuel Economy display

Current fuel consumption:

The Fuel economy display mode shows the current fuel consumption.

Average fuel consumption:

The Fuel economy display mode shows the average fuel consumption since the last reset.

The Fuel economy display mode has three modes of operation. You can switch between Since Reset/Manual Reset1, Since Start/Manual Reset2 or Since Refuel/Auto Refuel by pushing the scroll dial ①. (The displayed mode varies depending on the model.)

Since Reset, Manual Reset1 or Manual Reset2 can be reset manually by using the scroll dial ①.

Since Start will be reset automatically each time the engine is started.

Since Refuel or Auto Refuel will be reset automatically each time when refueling.

5. ECO Pedal Guide

When the ECO mode is selected, you can view the ECO Pedal Guide function for improving fuel economy.

(See "ECO Pedal Guide function" (P.5-18).)

6. Tyre Pressure (if equipped)

The tire pressure mode shows the pressure of all four tires while the vehicle is driven.

With the "Tyre ECO advice" function ON, when the tire pressure is getting low, "ECO Advice Adjust Tyre Pressures" appears. (See "ECO Settings" (P.2-24) and "Tyre ECO advice" (P.5-18).)

When the Low Tyre Pressure warning appears, the display can be switched to the tire pressure mode by pushing the scroll dial ① to reveal additional details on the displayed warning.

7. 4x4-i Torque Split (if equipped)

The 4x4-i Torque Split mode shows the distribution ratio of the transmission torque to the front and rear wheels during driving.

8. Trip CO2 saved and engine stop time (if equipped)

The trip CO2 saved and engine stop time (Stop/Start System or Idling Stop System) shows the information of the Stop/Start System or Idling Stop System.

(See "Stop/Start System or Idling Stop System" (P.5-24).)

9. Total CO2 saved and engine stop time (if equipped)

The total CO2 saved and engine stop time (Stop/Start System or Idling Stop System) shows the information of the Stop/Start System or Idling Stop System.

(See "Stop/Start System or Idling Stop System" (P.5-24).)

10. Variable Compression Turbo (if equipped)

Variable Compression Turbo mode shows the status of Variable Compression Turbo information. (See "Variable Compression Turbo" (P.2-12).)

11. Compass (if equipped)

This display indicates the heading direction of the vehicle.

12. Navigation (if equipped)

When the route guidance is set in the navigation system, this item shows the navigation route information.

13. Audio

The audio mode shows the status of audio information.

14. Driver Assistance (if equipped)

The Driver Assistance mode shows the operating condition for the following systems (if equipped).

- Forward:
  - — Intelligent Emergency Braking with Pedestrian Detection
  - — Intelligent Forward Collision Warning
- Lane:
  - — Lane Departure Warning (LDW)
  - — Intelligent Lane Intervention
- Blind Spot:
  - — Blind Spot Warning (BSW)
  - — Intelligent Blind Spot Intervention

For more details, see "Lane Departure Warning (LDW)" (P.5-49), "Intelligent Lane Intervention" (P.5-53), "Blind Spot Warning (BSW)" (P.5-72), "Intelligent Blind Spot Intervention" (P.5-77), "Intelligent Emergency Braking with Pedestrian Detection system" (P.5-136), "Intelligent Forward Collision Warning" (P.5-147) or "Driver Assistance systems" (P.5-30).

15. Intelligent Cruise Control (ICC) (if equipped)

The Intelligent Cruise Control (ICC) mode shows the operating condition for the ICC system.

(See "Intelligent Cruise Control (ICC)" (P.5-94).)

16. ProPILOT (if equipped)

The ProPILOT mode shows the operating conditions for the following systems:

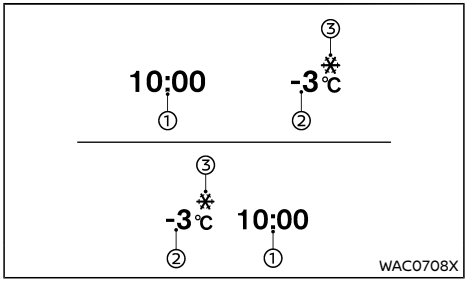
- Intelligent Cruise Control (ICC)
- Steering Assist

The display will also be shown when the ProPILOT is turned on. For additional information, see "ProPILOT/ProPILOT Assist" (P.5-109).

17. Traffic Sign/Speed Limit Sign (if equipped)

The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41) or"-Traffic Sign Recognition (TSR) (Type B)" (P.5-45) for more details.

CLOCK AND OUTSIDE AIR TEMPERATURE



The clock ① and outside air temperature ② are displayed on the upper side of the vehicle information display.

Clock

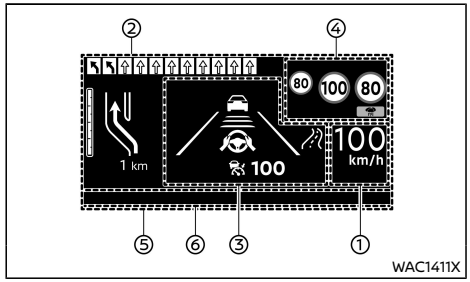
For clock adjustment, see "Clock" (P.2-25) or the separate NissanConnect Owner's Manual (if equipped).

Outside air temperature (°C or °F)

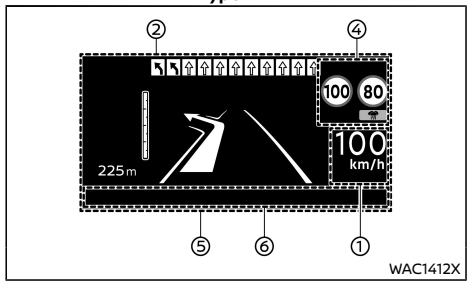
The outside air temperature is displayed in °C or °F in the range of –40 to 60°C (–40 to 140°F).

The outside air temperature mode includes a low temperature warning feature. If the outside air temperature is below –3°C (27°F), the indicator ③ is displayed.

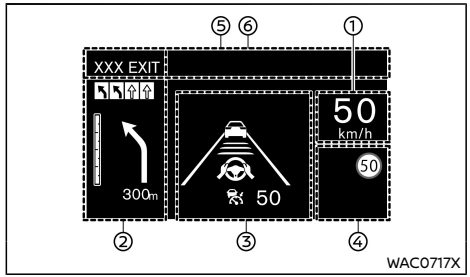
The outside temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind directions and other driving conditions. The display may differ from the actual outside temperature or the temperature displayed on various signs, billboards or media information.



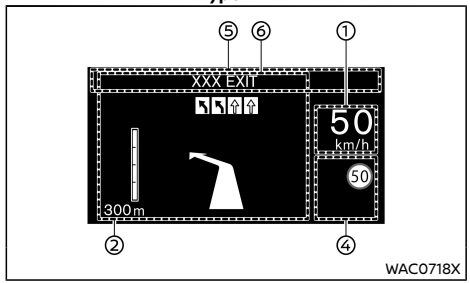
Type A-1



Type A-2



Type B-1



Type B-2

WARNING:

- **Failure to properly adjust the brightness and position of the displayed image may interfere with the driver's ability to see through the windshield, which could cause an accident leading to severe injury or death.**
- **Do not use the Head Up Display (HUD) for extended periods of time as that can cause you to not see other vehicles, pedestrians or objects, which could cause an accident leading to severe injury or**

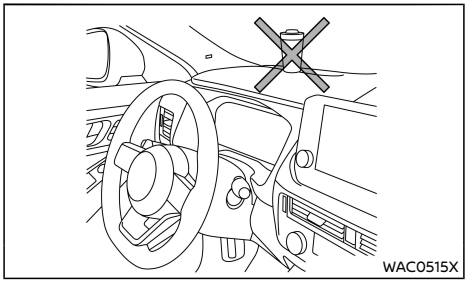
death.

The Head Up Display (HUD) can display one or more of the following features (if equipped):

① Vehicle speed
② Navigation
③ Driving Assist
④ Traffic Sign
⑤ Audio
⑥ TEL/SMS

CAUTION:

- **Do not place any type of liquid on or near the projector. Doing so may cause malfunction of the equipment.**

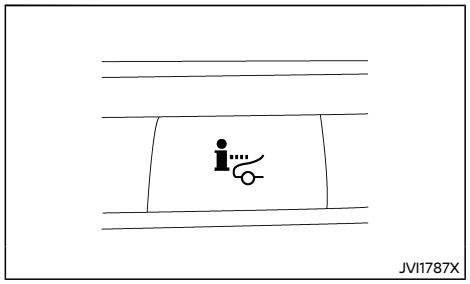

WAC0515X

- **Do not touch any internal parts of the projector. Doing so may cause malfunction of the equipment.**
- **To prevent scratches to the projector glass, do not place any sharp objects on or near the projector opening.**
- **Do not place any objects on the instrument panel which may obstruct the display of the HUD.**
- **For cleaning, use a soft clean dry cloth. If the dirt cannot be removed, use a soft clean cloth, dampened with water. Then wipe with a soft clean cloth. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or cause discoloration to the projector lens.**
- **Do not spray any liquid such as water on the projector lens. Spraying liquid may cause the system to malfunction.**

NOTE:

- **If you wear polarized sunglasses, the display may be difficult to see. Increase the brightness of the HUD in the vehicle information display or remove your sunglasses.**
- **Depending on weather conditions (rain, snow, sunlight, etc.), the display may be difficult to see.**
- **If the displayed image appears distorted, it is recommended you have the system checked by a NISSAN dealer.**
- **The HUD has a special windshield to allow the image to be displayed clearly. If your windshield needs replacing, this should be performed by a NISSAN dealer.**

HOW TO USE THE HUD


JVI1787X

To turn the HUD on, push the HUD switch. To turn the HUD off, push the switch again.

If the HUD is turned off, it will remain off even if the vehicle is restarted.

The following settings can be changed in the vehicle information display:

- Brightness
- Height
- Rotation
- Contents Selection
  - Navigation (if equipped)
  - Driving Aids
  - Traffic Sign
  - Audio
  - Telephone
- Reset

NOTE:

- **If the HUD is turned off by the HUD switch, the "Head-Up Display" menu in the vehicle information display cannot be operated. To operate the "Head-Up Display" menu, push the HUD switch to turn on the HUD.**

- **Emergency information may display even if the HUD is turned off.**

This product includes the following software.

(1) Panasonic Corporation or software developed for Panasonic Corporation

(2) Third-party software licensed to Panasonic Corporation

(3) Open source software

Regarding (3) Open source software, it includes open source software (OSS), including various software to which license information applies.

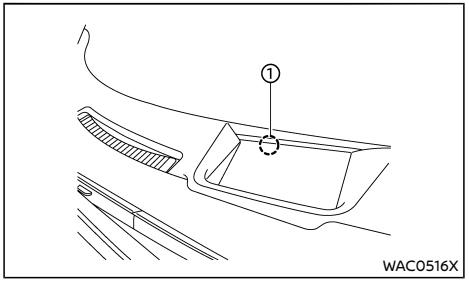
Refer to the license web site at:

Type A: http://car.panasonic.jp/oss/j03llnna

Type B: http://car.panasonic.jp/oss/i02lln39

Display brightness

The brightness of the display may be controlled in the vehicle information display. The brightness will also be adjusted automatically according to the exterior ambient lighting brightness.



NOTE:

- **The HUD has a built-in sensor ① that controls the brightness of the displayed image. If you block the sensor with an object, the display will darken, making it difficult to see.**
- **Do not apply strong light to the sensor of the HUD. Doing so may cause a malfunction.**

DRIVING AIDS/NAVIGATION/TRAFFIC SIGN/AUDIO/TELEPHONE LINKING

The HUD will display Driving Aids and navigation (if equipped) information.

The Driver Assistance display will show warning situations for the following systems (if equipped):

- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning
- Lane Departure Warning (LDW)
- Intelligent Lane Intervention
- Emergency Lane Assist (ELA)
- Hands-free warning (for vehicles with ProPILOT)

The Navigation System (if equipped) linking display will show the following items:

- Intersection names
- Arrows indicating turning direction
- Distance to the next intersection
- Recommended lane indicator

The Traffic Signs Recognition (TSR) system linking display will show the following items:

- Speed Limit Sign
- No Entry Sign

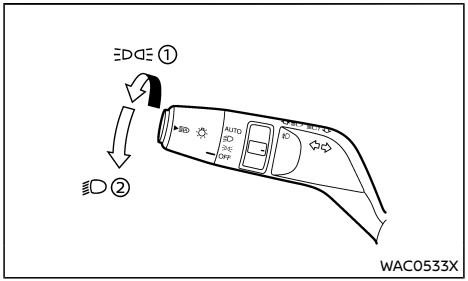
The Audio System linking display will show the following items:

- Songs
- Radio stations

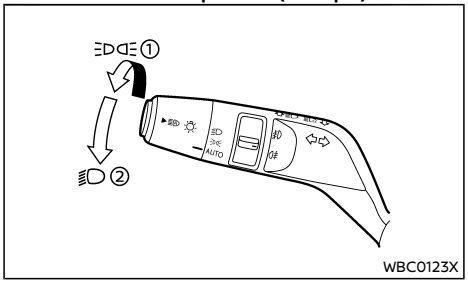
The Telephone linking display will show the following item:

- Caller's name or phone number

HEADLIGHT SWITCH



With "OFF" position (example)



Without "OFF" position (example)

NISSAN recommends that you consult the local regulations concerning the use of lights.

position

The position turns on the front clearance lights, instrument panel lights, tail and license plate lights.

position

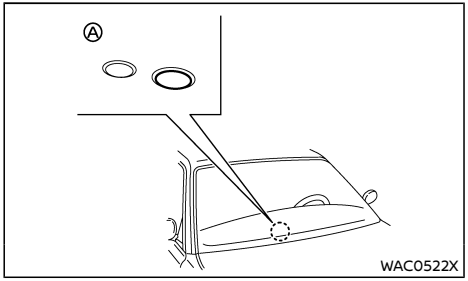
The position turns on the headlights in addition to the other lights.

AUTO position

When the ignition switch is in the "ON" position and the headlight switch is in the "AUTO" position, the headlights, front clearance lights, instrument panel lights, tail and license plate lights turn on automatically depending on the brightness of the surroundings.

The headlights will turn on automatically at twilight or in rainy weather (when the windshield wiper is operated continuously).

When the ignition switch is placed in the "OFF" position, the lights will turn off automatically.



CAUTION:

Do not place any objects on top of the sensor Ⓐ. The sensor senses the brightness level and controls the Intelligent Auto Headlight function. If the sensor is covered, it reacts as if it is dark, and the headlights will illuminate.

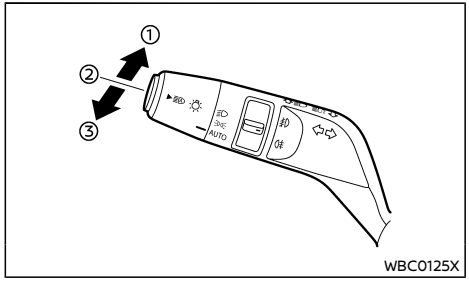
The layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Hand Drive (RHD) model, the sensor is located on the opposite side.

Automatic headlights off delay (if equipped):

You can keep the headlights on for up to 180 seconds after you place the ignition switch in the "OFF" and open any door then close all the doors. You can adjust the period of the automatic headlights off delay from 0 seconds (OFF) to 180 seconds. The factory default setting is 30 seconds.

For automatic headlights off delay setting, see "Vehicle Settings" (P.2-25).

Headlight beam



Example

① To select the high beam, push the lever forward and release it. The high beam lights come on and the light illuminates.

② Pull the lever back and release it to select the low beam.

③ To flash the headlights when the high beam is not selected, pull the lever towards the rear position. To flash the headlights when the high beam is selected, pull the lever twice towards the rear position.

If equipped, when the lever is pulled towards the rearmost position ③ after the ignition switch is placed in the "OFF" position, the headlight will turn on and stay on for 30 seconds. The lever can be pulled 4 times for up to 2 minutes.

High beam assist (if equipped)

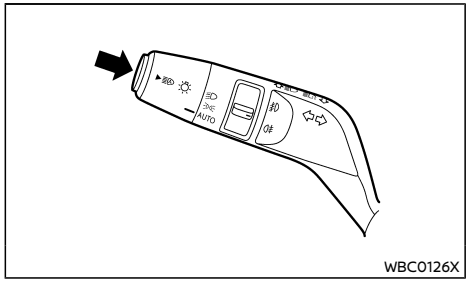
The high beam assist system will operate when the vehicle is driven at speeds of approximately 40 km/h (25 MPH) and above. If an oncoming vehicle or leading vehicle appears in front of your vehicle when the headlight high beam is on, the headlight will be switched to the low beam automatically.

Precautions on high beam assist:

WARNING:

- **The high beam assist system is a convenience but it is not a substitute for safe driving operation. The driver should remain alert at all times, ensure safe driving practices and switch the high beams and low beam manually when necessary.**
- **The high beam or low beam may not switch automatically under the following conditions. Switch the high beam and low beam manually.**
  - **— During bad weather (rain, fog, snow, wind, etc.).**
  - **— When a light source similar to a headlight or tail light is in the vicinity of the vehicle.**
  - **— When the headlights of the oncoming vehicle or the leading vehicle are turned off, when the color of the light is affected due to foreign materials on the lights, or when the light beam is out of position.**
  - **— When there is a sudden, continuous change in brightness.**
  - **— When driving on a road that passes over rolling hills, or a road that has level differences.**
  - **— When driving on a road with many curves.**
  - **— When a sign or mirror-like surface is reflecting intense light towards the front of the vehicle.**
  - **— When the container, etc. being towed by a leading vehicle is reflecting intense light.**
  - **— When a headlight on your vehicle is damaged or dirty.**
  - **— When the vehicle is leaning at an angle due to a punctured tire, being towed, etc.**
- **The timing of switching the low beam and high beam may change under the following situations.**
  - **— The brightness of the headlights of the oncoming vehicle or leading vehicle.**
  - **— The movement and direction of the oncoming vehicle and the leading vehicle.**
  - **— When only one light on the oncoming vehicle or the leading vehicle is illuminated.**
  - **— When the oncoming vehicle or the leading vehicle is a two-wheeled vehicle.**
  - **— Road conditions (incline, curve, the road surface, etc.).**
  - **— The number of passengers and the amount of cargo.**

High beam assist operations:



Example

To activate the high beam assist system, push the switch as illustrated with the "AUTO" position. The high beam assist indicator light in the meter will illuminate while the headlights are turned on.

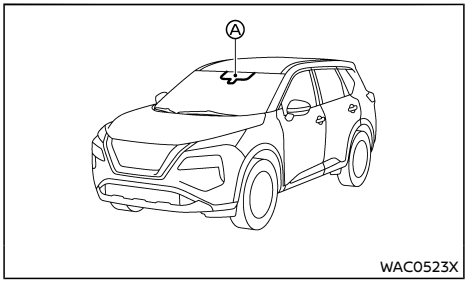
The high beam indicator light also illuminates when the high beam is selected by the high beam assist system.

If the high beam assist indicator light does not illuminate in the above condition, it may indicate that the system is not functioning properly. It is recommended you have the system checked by a NISSAN dealer.

When the vehicle speed lowers to less than approximately 25 km/h (16 MPH), the headlight remains the low beam.

To turn off the high beam assist system, push the switch again.

Ambient image sensor maintenance:



The ambient image sensor Ⓐ for the high beam assist system is located in front of the inside rearview mirror. To keep the proper operation of the high beam assist system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the ambient image sensor.
- Do not strike or damage the areas around the ambient image sensor. Do not touch the sensor lens that is located on the ambient image sensor.

If the ambient image sensor is damaged due to an accident, contact a NISSAN dealer.

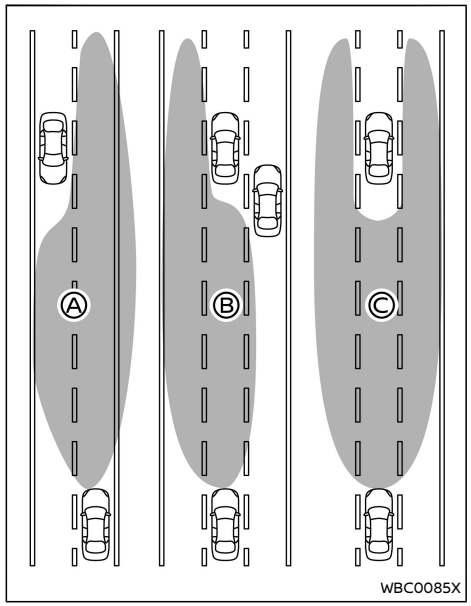
Battery saver system

- When the headlight switch is in the ≡D◐≡ or 🚗 position while the ignition switch is in the "ON" position, the lights will automatically turn off within a period of time after the ignition switch has been placed in the "OFF" position.
- When the engine is off, you can turn on the headlights, but the lights will automatically turn off after a period of time (if equipped).
- When the headlight switch remains in the ≡D◐≡ or 🚗 position after the lights automatically turn off, the lights will turn on:
  — When the ignition switch is placed in the "ON" position.
  — When the headlight switch is operated. (In this case, the lights will automatically turn off again after a period of time.)

CAUTION:

- **When you turn on the headlight switch again after the lights automatically turn off, the lights will not turn off automatically. Be sure to turn the headlight switch to the "AUTO" or "OFF" (if equipped) position when you leave the vehicle for extended periods of time, otherwise the battery will be discharged.**
- **Never leave the headlight switch on when the engine is not running for extended periods of time even if the headlights turn off automatically.**

Adaptive LED headlight (if equipped)



Example

The adaptive LED headlight system will operate when the vehicle is driven at speeds of approximately 40 km/h (25 MPH) and above. If an oncoming vehicle or leading vehicle appears in front of your vehicle when the headlight high beam is on, the system will change the area illuminated by the headlights automatically.

Example:

Ⓐ Right side beam only (for an oncoming vehicle)

Ⓑ Left side beam only (for leading vehicles)

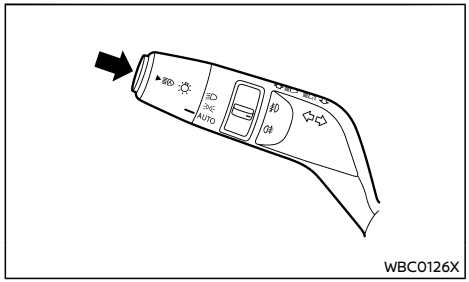
© Split beam (for a leading vehicle)

Precautions on adaptive LED headlight:

WARNING:

- **The adaptive LED headlight system is a convenience but it is not a substitute for safe driving operation. The driver should remain alert at all times, ensure safe driving practices and switch the high beam and low beam manually when necessary.**
- **The high beam or low beam may not switch automatically under the following conditions. Switch the high beam and low beam manually.**
  - **— During bad weather (rain, fog, snow, wind, etc.).**
  - **— When a light source similar to a headlight or tail light is in the vicinity of the vehicle.**
  - **— When the headlights of the oncoming vehicle or the leading vehicle are turned off, when the color of the light is affected due to foreign materials on the lights, or when the light beam is out of position.**
  - **— When there is a sudden, continuous change in brightness.**
  - **— When driving on a road that passes over rolling hills, or a road that has level differences.**
  - **— When driving on a road with many curves.**
  - **— When a sign or mirror-like surface is reflecting intense light towards the front of the vehicle.**
  - **— When the container, etc. being towed by a leading vehicle is reflecting intense light.**
  - **— When a headlight on your vehicle is damaged or dirty.**
  - **— When the vehicle is leaning at an angle due to a punctured tire, being towed, etc.**
- **The timing of switching the low beam and high beam may change under the following situations.**
  - **— The brightness of the headlights of the oncoming vehicle or leading vehicle.**
  - **— The movement and direction of the oncoming vehicle and the leading vehicle.**
  - **— When only one light on the oncoming vehicle or the leading vehicle is illuminated.**
  - **— When the oncoming vehicle or the leading vehicle is a two-wheeled vehicle.**
  - **— Road conditions (incline, curve, the road surface, etc.).**
  - **— The number of passengers and the amount of luggage.**

Adaptive LED headlight operations:



Example

To activate the adaptive LED headlight system, push the switch as illustrated with the headlight switch in the “AUTO” position. The adaptive LED headlight indicator light in the meter will illuminate while the headlights are turned on.

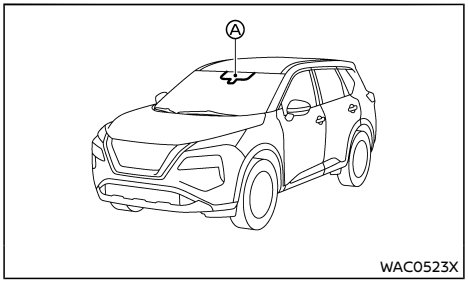
The high beam indicator light also illuminates when the high beam is on.

If the adaptive LED headlight indicator light does not illuminate in the above condition, it may indicate that the system is not functioning properly. Have the system checked by a NISSAN dealer.

When the vehicle speed lowers to less than approximately 25 km/h (16 MPH), the headlight remains the low beam.

To turn off the adaptive LED headlight system, push the switch again.

Ambient image sensor maintenance:



The ambient image sensor Ⓐ for the adaptive LED headlight system is located in front of the inside rearview mirror. To keep the proper operation of the adaptive LED headlight system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the ambient image sensor.
- Do not strike or damage the areas around the ambient image sensor. Do not touch the sensor lens that is located on the ambient image sensor.

If the ambient image sensor is damaged due to an accident, contact a NISSAN dealer.

Daytime Running Light (DRL) system

Even if the headlights are off, the daytime running lights will come on after starting the engine.

When the headlight switch is turned to the ≡D≡ or ≡O position, the daytime running light will turn off.

HEADLIGHT CLEANER (if equipped)

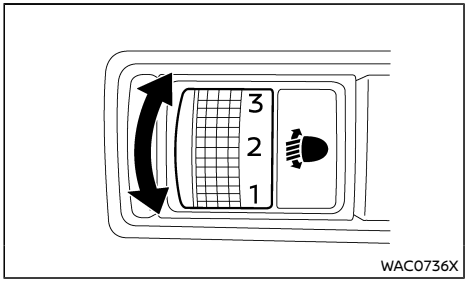
The headlight cleaner operates when the headlight is on and the ignition switch is in the "ON" position.

Pull the windshield washer switch toward you. The headlight cleaner operates with the windshield washer operation. This operation activates once each time the ignition switch is turned off and on.

CAUTION:

Add the window washer fluid reservoir when the fluid is at a low level.

HEADLIGHT AIMING CONTROL



Manual type (if equipped)

The headlight aiming control operates when the ignition switch is in the "ON" position and the headlight is on to allow the headlight axis to be adjusted according to the driving condition.

When driving with no heavy load/luggage or driving on a flat road, select the normal position "0".

If the number of occupants and load/luggage in the vehicle changes, the headlight axis may become higher than normal.

If the vehicle is traveling on a hilly road, the headlights may directly shine on the rearview and outside rearview mirrors of a vehicle ahead or the windshield of an oncoming vehicle, which may obscure other drivers' vision.

To adjust to the proper aiming height, turn the switch accordingly. The higher the number, designated on the switch, the lower the headlight axis.

Select the switch position by referring to the following samples.

Two row model:

Switch position	Number of front seat occupants	Number of rear seat occupants	Weight of load in the luggage compartment
0	1 or 2	No occupants	No load
1	2	3	No load
2	2	3	approx. 105 kg (232 lb)
3	1	No occupants	approx. 350 kg (772 lb)

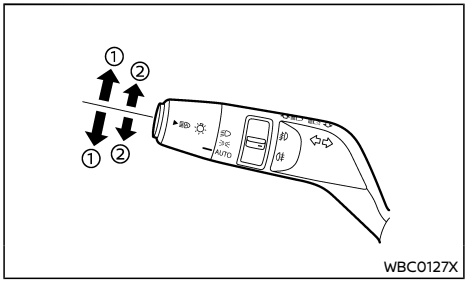
Three row model:

Switch position	Number of front seat occupants	Number of second row seat occupants	Number of third row seat occupants	Weight of load in the luggage compartment
0	1 or 2	No occupants	No occupants	No load
1	2	No occupants or 3	2	No load
2	2	3	2	approx. 95 kg (209 lb)
3	1	No occupants	No occupants	approx. 445 kg (981 lb)

Automatic type (if equipped)

The headlights are equipped with the automatic leveling system. Headlight axis is controlled automatically.

TURN SIGNAL SWITCH



Example

① Turn signal

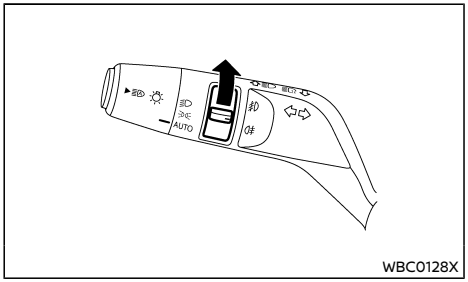
Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

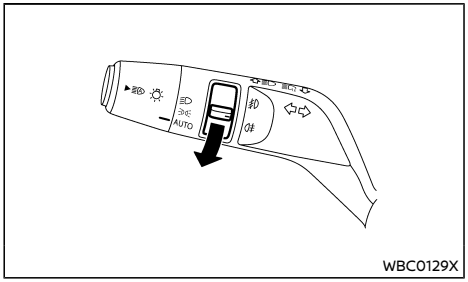
② Lane change signal

Move the lever up or down until the turn signal begins to flash, but the lever does not latch, to signal a lane change. Hold the lever until the lane change is completed.

Move the lever up or down until the turn signal begins to flash, but the lever does not latch, and release the lever. The turn signal will automatically flash three times.

Choose the appropriate method to signal a lane change based on road and traffic conditions.





Example

FRONT FOG LIGHTS (if equipped)

To turn the fog lights on, turn the headlight switch to the ≡D≡ or position, then turn the fog light switch to the position.

To turn the fog lights on with the headlight switch in the "AUTO" position, the headlights or front clearance lights must be on, then turn the fog light switch to the position. (Once the headlights, front clearance lights and fog lights are turned on with the headlight switch in the "AUTO" position, they continue to illuminate even if the surroundings become bright.)

To turn them off, turn the fog light switch to the OFF position.

REAR FOG LIGHT (if equipped)

The rear fog light should be used only when visibility is seriously reduced [generally, to less than 100 m (328 ft)].

To turn the fog light on, turn the headlight switch to the position or turn the front fog lights (if equipped) on, then turn the fog light switch to the position.

To turn the fog light on with the headlight switch in the "AUTO" position, the headlights must be on, then turn the fog light switch to the position.

To turn off, turn the fog light switch to the OFF position.

WIPER AND WASHER SWITCH

WINDSHIELD WIPER AND WASHER OPERATION

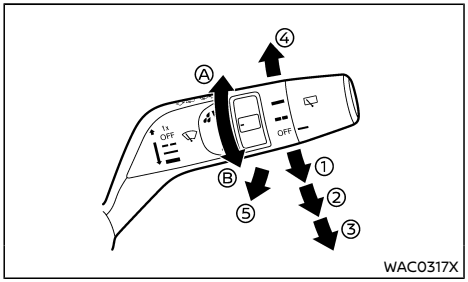
WARNING:

In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm windshield with the defogger before you wash the windshield.

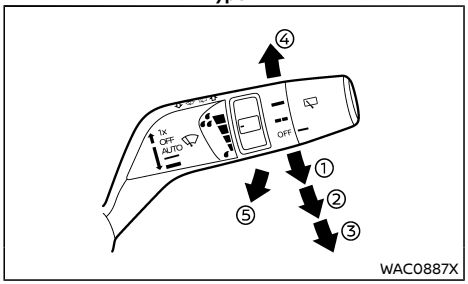
CAUTION:

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.**
- **Do not operate the windshield wiper while the wiper arm is pulled up. The wiper arm may be damaged.**

If the windshield wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the OFF position and remove the snow or ice that is on and around the wiper arms. In approximately 1 minute, turn the switch on again to operate the wiper.



Type A



Type B

The windshield wiper and washer operates when the ignition switch is in the "ON" position.

Push the lever down to operate the wiper at the following speed:

① Intermittent (Type A) — intermittent operation can be adjusted by turning the knob toward Ⓐ (Faster) or Ⓑ (Slower). Also, the intermittent operation speed varies in accordance with the vehicle speed. (For example, when the vehicle speed is high, the intermittent operation speed will be faster.)

① AUTO (Type B) — see "Rain-sensing auto wiper system" (P.2-58).

② Low — continuous low speed operation

③ High — continuous high speed operation

If the ignition switch is placed in the "OFF" position while the wiper operates in the high speed position, the wiper will not operate the next time the ignition switch is placed in the "ON" position. To operate the wiper, move the lever to any position other than high speed.

Push the lever up ④ to have one sweep operation of the wiper.

Pull the lever toward you ⑤ to operate the washer. Then the wiper will also operate several times.

The headlight cleaner (if equipped) will also operate with operation of the windshield washer. (See "Headlight cleaner" (P.2-58).)

NOTE:

The Speed Dependent feature may be disabled. For additional information, refer to "Vehicle Settings" (P.2-25).

Headlight cleaner (if equipped)

Pull the lever toward the rear of the vehicle ⑤.

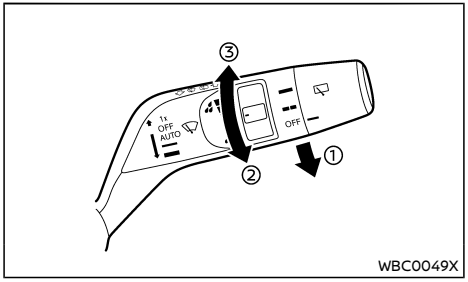
The headlight cleaner will operate with operation of the windshield washer.

- The headlight cleaner operates with the windshield washer operation. This operation activates once each time the ignition switch is turned off and on.
- After the first operation, the headlight cleaner operates once at every fifth operation of the windshield washer.

CAUTION:

Add the window washer fluid reservoir when the fluid is at a low level.

RAIN-SENSING AUTO WIPER SYSTEM (if equipped)



The rain-sensing auto wiper system can automatically turn on the wipers and adjust the wiper speed depending on the rainfall and the vehicle speed by using the rain sensor located on the upper part of the windshield.

To set the rain-sensing auto wiper system, push the lever down to the "AUTO" position ①.

The rain sensor sensitivity level can be adjusted by turning the knob toward ② (Low) or ③ (High).

- High — High sensitive operation
- Low — Low sensitive operation

To turn the rain-sensing auto wiper system off, push up the lever to the "OFF" position, or pull down the lever to the other.

CAUTION:

Do not touch the rain sensor and around it when the wiper switch is in the "AUTO" position and the ignition switch is in the "ON" position. The wipers may operate unexpectedly and cause an injury or may damage a wiper.

- **The rain-sensing auto wipers are intended for use during rain. If the switch is left in the "AUTO" position, the wipers may operate unexpectedly when dirt, fingerprints, oil film or insects are stuck on or around the sensor. The wipers may also operate when exhaust gas or moisture affect the rain sensor.**
- **When the windshield glass is coated with water repellent, the speed of the rain-sensing auto wipers may be higher even though the amount of the rainfall is small.**
- **Be sure to turn off the rain-sensing auto wiper system when you use a car wash.**
- **The rain-sensing auto wipers may not operate if rain does not hit the rain sensor even if it is raining.**
- **Using genuine wiper blades is recommended for proper operation of the rain-sensing auto wiper system. (See "Windshield wiper blades" (P.8-16) for wiper blade replacement.)**

REAR WINDOW WIPER AND WASHER OPERATION

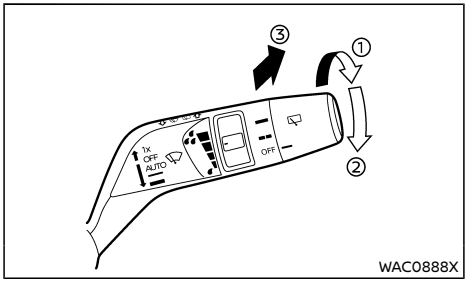
WARNING:

In freezing temperatures the washer solution may freeze on the rear window glass and obscure your vision. Warm the rear window with the defogger before you wash the rear window.

CAUTION:

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.**

If the rear window wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the OFF position and remove the snow or ice that is on and around the wiper arms. In approximately 1 minute, turn the switch on again to operate the wiper.



Example

The rear window wiper and washer operate when the ignition switch is in the "ON" position.

Turn the switch clockwise from the OFF position to operate the wiper.

① Intermittent (INT) — intermittent operation (not adjustable)

② Low (ON) — continuous low speed operation

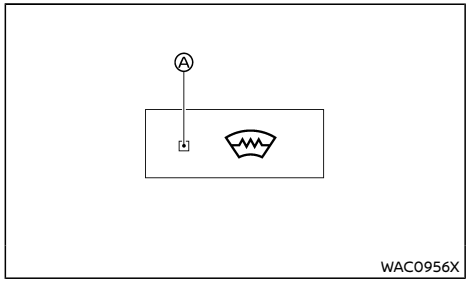
Push the switch forward ③ to operate the washer. Then the wiper will also operate several times.

Reverse Link feature:

When the windshield wiper switch is on, moving the shift lever to the "R" (Reverse) position will operate the rear window wiper.

NOTE:

The Reverse Link feature may be disabled. For additional information, refer to "Vehicle Settings" (P.2-25).



The heated windshield button is located on the front air conditioner control panel.

To defog/defrost the windshield, start the engine and push the heated windshield button. The indicator light Ⓐ will illuminate.

Push the button again to turn the system off.

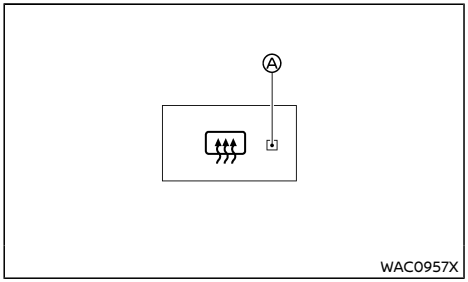
The system will turn off automatically after a period of time. If the windshield clears before this time, push the button again to turn the system off.

NOTE:

- **The system can only be activated while the engine is running.**
- **Before activating the system make sure to remove excess snow/ice from the windshield.**
- **Electrical conductors embedded in the windshield provide the heating of the windshield. If damage occurs to the windshield have the system checked by a NISSAN dealer.**
- **Reduced performance or deactivation of the heated windshield may be noticed to preserve the battery. This is not a malfunction.**

- **NISSAN recommends using the system to support defogging of the windshield. For more information, see "Heater and air conditioner" (P.4-20).**
- **During use of the system, the Stop/Start System is unavailable.**

DEFOGGER SWITCH



Example

The defogger switch is located on the front air conditioner control panel.

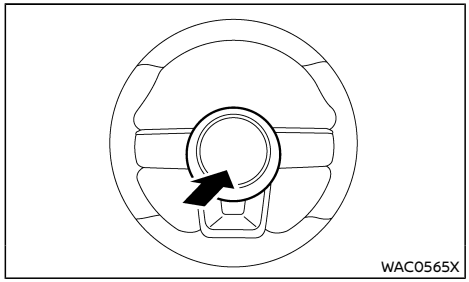
To defog/defrost the rear window glass and outside rearview mirrors (if equipped), start the engine and push the switch on. The indicator light Ⓐ will illuminate. Push the switch again to turn the defogger off.

It will automatically turn off in approximately 20 minutes.

CAUTION:

- **When operating the defogger continuously, be sure to start the engine. Otherwise, it may cause the battery to discharge.**
- **When cleaning the inner side of the window, be careful not to scratch or damage the electrical conductors on the surface of the window.**

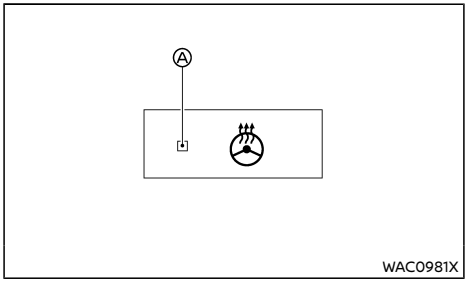
HORN



The horn switch operates regardless of the ignition switch position except when the battery is discharged.

When the horn switch is pushed and held, the horn will sound. Releasing the horn switch will cease the horn sound.

HEATED STEERING WHEEL SWITCH (if equipped)



Example

The heated steering wheel switch is located on the front air conditioner control panel.

Push the heated steering wheel switch to warm the steering wheel after the ignition switch is placed in the "ON" position. The indicator light Ⓐ will illuminate. Push the switch again to turn the system off.

If the surface temperature of the steering wheel is below 20°C (68°F), the system will heat the steering wheel and cycle off and on to maintain a temperature above 20°C (68°F). The indicator light will remain on as long as the system is on (approximately 30 minutes).

Push the switch again to turn the heated steering wheel system off manually. The switch color will change from orange to white as the feature turns from ON to OFF.

NOTE:

Once activated, your heated steering wheel will automatically turn on and off to maintain a temperature above 20°C (68°F).

When the temperature of the steering wheel is above 50°C (122°F) and the heated steering wheel switch is turned on, the system will not heat the steering wheel. This is not a malfunction.

REAR DOOR ALERT (if equipped)

The Rear Door Alert system functions under certain conditions to indicate there may be an object or passenger in the rear seat(s). Check the seat(s) before exiting the vehicle.

The Rear Door Alert system is initially disabled. The driver can enable the system using the vehicle information display. (See "Vehicle Settings" (P.2-25).)

When the system is enabled:

- The system is activated when a rear door is opened and closed. When the vehicle is started and the system is activated, a visual message appears in the vehicle information display. (See "27. Rear Door Alert is Activated indicator" (P.2-35).)
- If a rear door is opened and closed but the vehicle is not driven, the system will not be activated. A rear door must be opened and closed and the car driven for the system to activate.
- The time interval to activate the system between when the rear door is opened and closed and the vehicle is started is about 10 minutes. A longer interval does not indicate a malfunction.

When the Rear Door Alert system is activated:

- When the driver puts the vehicle in the "P" (Park) position, a notification message appears in the vehicle information display with the options to "Dismiss Message" or "Disable Alert" if desired.
  - Select "Disable Alert" to temporarily disable for that stop.
  - No selection or 'Dismiss Message" will keep the alert enabled for that stop.
- If the alert is enabled when a driver exits the vehicle, a message will appear in the vehicle information display that states "Check Rear Seat for All Articles."

  If "Horn & Alert" setting is selected:
  - An audible horn sound will occur after a short time unless a rear door is opened and closed within a short time to deactivate the alert.
  - If the doors are locked before the alert is deactivated by opening a rear door, the horn will sound.
  - If the back door is opened before a rear door is opened, the horn will be delayed until after the back door is closed.

NOTE:

If "Alert Only" setting is selected, the message alert will still be shown in the vehicle information display but the horn will not sound.

WARNING:

- **If the driver selects "Disable Alert", no audible alert or a message will be provided regardless of rear door open/close status.**
- **There may be times when there is an object or passenger in the rear seat(s) but the audible alert does not sound. For example, this may occur if rear seat passengers enter or exit the vehicle during a trip.**
- **The system does not directly detect objects or passengers in the rear seat(s). Instead, it can detect when a rear door is opened and closed, indicating that there may be something in the rear seat(s).**

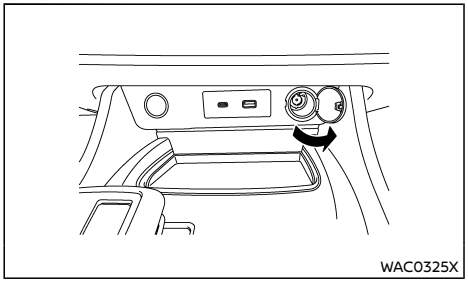
NOTE:

There may be times when the horn sounds but there are no objects or passengers in the rear seat(s).

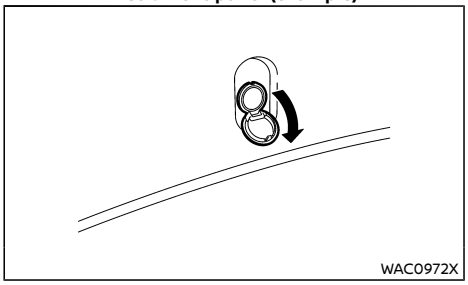
(See "27. Rear Door Alert is Activated indicator"

POWER OUTLETS

(P.2-35).)



Instrument panel (example)



Luggage area (example)

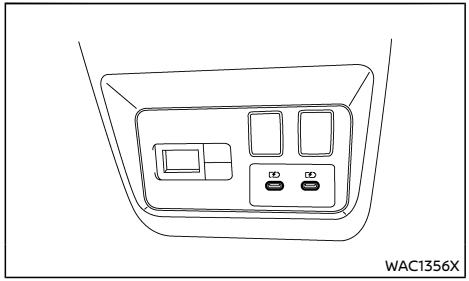
The power outlets is located in the lower part of the instrument panel* and in the luggage area.

*: The layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Han Drive (RHD) model, the outlet is located on the opposite side.

CAUTION:

- **The outlet and plug may be hot during or immediately after use.**
- **Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.**
- **Use power outlet with the engine running to avoid discharging the vehicle battery.**
- **Avoid using power outlet when the air conditioner, headlights or rear window defogger is on.**
- **This power outlet is not designed for use with a cigarette lighter unit.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat.**
- **Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.**
- **When not in use, be sure to close the cap. Do not allow water or any liquid to contact the outlet.**

USB (Universal Serial Bus) CHARGING CONNECTOR (if equipped)



Example

The USB charging connector is located on the back of the center console box.

The USB charging connector can be used only for charging an external device.

Connect a USB device into the connector. Charging will start automatically. For USB charging connector, maximum output is up to 5 volt, 12W, 2.4A (for USB Type-A, if equipped) or 5 volt, 15W, 3A (for USB Type-C).

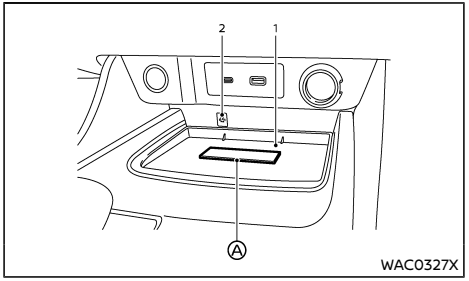
The external device will be charged continuously while the ignition switch is in the "ON" position.

Some mobile devices cannot be charged depending on their specifications.

CAUTION:

- **Do not force a USB device into the connector. Depending on the USB connector, inserting the USB device tilted or upside down may damage the connector. Make sure that the USB device is connected correctly into the connector.**
- **Do not use a reversible USB cable. Using the reversible USB cable may damage the connector.**

WIRELESS CHARGER (if equipped)



Example

1. Charging pad
2. Indicator

The wireless charger is located on the front of the center console. Lay the smartphone on the pad of the wireless charger. Charging will start automatically. The smartphone will be charged continuously while the ignition switch is in the "ON" position.

WARNING:

- **Never put metallic materials between the wireless charger and a smartphone.**
- **Those who use a pacemaker or other medical equipment should contact the electric medical equipment manufacturer for the possible influences before use.**
- **Never put cloth over the smartphone during charging process.**
- **Never charge a smartphone when it is wet.**
- **Never put metallic materials or small goods such as a cigarette lighter, Intelligent Key or memory drive.**

CAUTION:

- **Do not put an RFID/NFC/credit card between the wireless charger and a smartphone. This could cause data corruption in the card.**
- **Do not use the wireless charger with dust accumulated or dirt on the pad.**
- **Do not hit the surface of the wireless charger.**
- **Do not spill liquid (water, drinks, etc.) on the charging pad.**
- **Do not use grease, oil or alcohol for cleaning charging pad.**

Wireless charger Indicator

The indicator will illuminate in orange when the charging process is started.

When the charging has completed, the indicator illuminates in green.

If a malfunction occurs or the charging process has stopped, the indicator will blink in orange for 8 seconds then turn off.

Operation of the wireless charger

To use the wireless charger, it is necessary to seat the smartphone well within the charging pad. To maximize charging performance, ensure the smartphone is fully seated on the center of the charging pad over the "Qi" logo Ⓐ. Because the location of the power receiver may vary depending on the smartphone, you will need to try and find the area that suits your smartphone.

Because some smartphone cases or accessories may adversely affect charging, remove them before wireless charging.

Turn off the vibration function of the smartphone before wireless charging.

NOTE:

- **Only a Qi compatible smartphone can be used.**
- **The smartphone or the wireless charger may be warmed during charging process and the charging may stop by the protection function of the smartphone or the wireless charger. This is not a malfunction. If this occurs, restart charging after the smartphone or the wireless charger cooled down. The indicator will blink in orange then turn off.**

- **The wireless charging process may be stopped by the status of the smartphone (battery temperature, etc.).**
- **If a radio noise interference occurs during charging process, put the smartphone onto the center ("Qi" logo) position of the wireless charger.**
- **The wireless charging process will stop during process of searching the Intelligent Key.**
- **The wireless charging process will not be started when a USB (Universal Serial Bus) cable is connected to the smartphone. The indicator may illuminate in orange or blink if the smartphone is put on the wireless charger with a USB cable connected. However, charging is not performed.**
- **Depending on the type of the smartphone, the indicator may remain illuminated in orange even when the charging process has been completed.**

EMERGENCY SERVICES CALL ECALL/SOS SYSTEM (if equipped for Europe and the Middle East)

Your vehicle is equipped with the 112-based (for Europe) or 999-based (for the Middle East) in-vehicle emergency services call system (eCall). In the event of a serious road accident emergency an automatic call can be made to the emergency services operator. The system can also be used manually to call the emergency services operator.

The eCall service is a public service of general interest and is accessible free of charge.

NISSAN is responsible only for the emergency communication system technical performance in the event of an accident within the warranty period. The eCall service can be used only in countries which have emergency services operator.

WARNING:

- **Radio waves could adversely affect electric medical equipment. Individuals who use a pacemaker should contact the device manufacturer regarding any possible effects before using the system.**
- **The TCU (Telematics Control Unit) antenna is installed inside the upper central part of the instrument panel. An occupant should not get any closer to the antenna than specified by the pacemaker manufacturer. The radio waves from the TCU (Telematics Control Unit) antenna may adversely affect the operation of the pacemaker.**
- **Inappropriate use of the service may be a violation of local laws and result in a criminal penalty.**

AUTOMATIC ECALL

If the air bag control unit detects a frontal collision, side collision or rear collision (if equipped) the system automatically places an emergency call to the emergency call center. At the same time, the vehicle information is also transferred. Once an emergency call is received by the emergency call center, the operator tries to talk to the vehicle's occupant.

NOTE:

- **During the emergency call, the volume of the voice of the operator cannot be adjusted.**
- **During the emergency call, the volume of the vehicle audio will be muted.**

The eCall system is always enabled by default. It is activated automatically by means of in-vehicle sensors in the event of a severe accident.

The eCall system is not traceable and is not subject to any constant tracking in its normal operational status. Data in the internal memory of the system is not available outside the in-vehicle system to any entities before the eCall is triggered.

Any processing of personal data through the eCall in-vehicle system shall comply with the personal data protection rules provided for in Directives 95/46/EC and 2002/58/EC of the European Parliament and of the Council, and in particular, shall be based on the necessity to protect the vital interests of the individuals in accordance with Article7(d) of Directive 95/46/EC.

Processing of such data is strictly limited to the purpose of handling the emergency eCall to the single European emergency number 112 (for Europe) or the emergency number 999 (for the

Middle East).

Recipients of data processed by the eCall in-vehicle system are the relevant public safety answering points designated by the respective public authorities of the country on which territory they are located, to first receive and handle eCalls to the single European emergency number.

The following information will be sent to the emergency call center by the vehicle emergency call system if a collision occurs:

- Vehicle Identification Number (VIN)
- Vehicle type
- Fuel type
- Activation type (Automatic/Manual)
- Call type (Test/Emergency)
- Position (Trusted/Low confidence)
- Time stamp (when the collision or event occurred)
- Last three vehicle locations, and vehicle direction
- Number of passengers (if equipped)

The eCall in-vehicle system is designed in such a way as to ensure that data in the system internal memory is automatically and continuously removed.

The vehicle location data is constantly overwritten in the internal memory of the system so as always to keep maximum of the last three up-to-date locations of the vehicle necessary for the normal functioning of the system.

The log of activity data in the eCall in-vehicle system is kept for no longer than necessary for attaining the purpose of handling the emergency eCall and in any case not beyond 13 hours from the moment an emergency eCall was initiated.

CAUTION:

- **The intelligent emergency call will only be triggered if the vehicle air bag system is activated during the collision.**
- **If the intelligent emergency call has been triggered, please bring your vehicle to a NISSAN dealer or qualified workshop. This is necessary because the intelligent emergency call system needs to be reset to avoid any unintended eCall being made.**
- **The mobile network provider that manages the connection from the vehicle to the emergency call center is specified and controlled outside of the vehicle emergency call system.**
- **Within the first minute of any emergency call the operator will determine if the call is genuine. Should the operator determine it is a non-genuine call they will stop the call, making no further attempts to call the vehicle back. This action does not prevent the occupant(s) of the vehicle from making a further manual emergency call.**

The emergency call function cannot be used in the following conditions:

- **The vehicle is outside the area where mobile network service is receivable.**
- **The vehicle is in a location with poor signal reception such as tunnels, underground parking garages, between buildings or in mountainous areas.**
- **The TCU (Telematics Control Unit) or other systems of your vehicle are not working properly.**
- **The available mobile network provider at the location of the vehicle is not specified for emergency call usage.**
- **The communication line of the emergency call center is busy.**

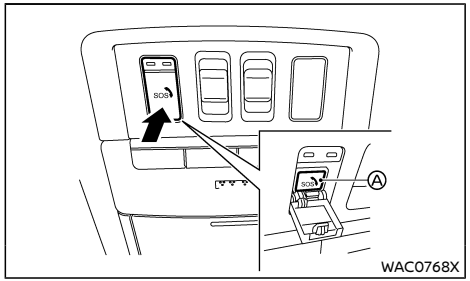
MANUAL ECALL (SOS button)

The manual eCall can be performed with the ignition switch placed in the "ON" position, by pushing the SOS button located near the map lights.

After the ignition switch is placed in the "OFF" position, if an emergency call was not made, the eCall system is turned off.

CAUTION:

- **Park the vehicle in a safe location and apply the parking brake before operating the SOS button.**
- **Use this service only in case of an emergency. There may be a penalty for inappropriate use of the service.**



1. Place the ignition switch in the “ON” position.

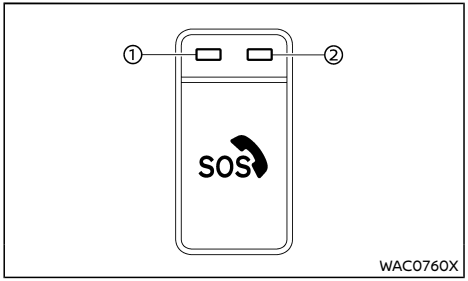
2. Push to open the SOS cover.
3. Push the SOS button Ⓐ. An emergency call is sent to the emergency call center. At the same time, the vehicle information is also transferred.
4. When the call is connected, you can speak to the emergency support staff.

If you want to cancel the emergency call, push and hold the SOS button for a few seconds. The call cannot be cancelled after connection.

NOTE:

- **During the emergency call, the volume of the voice of the operator cannot be adjusted.**
- **During the emergency call, the volume of the vehicle audio will be muted.**
- **After the SOS button is pushed, it may take some time until the system initiates connection, depending on the technical environment and whether the TCU is being used by other services.**
- **To avoid disconnecting the call, do not turn the engine off.**
- **During the emergency call Bluetooth® Hands-Free Phone connection will be disabled and phone operation will only be available by mobile phone.**
- **If the emergency call is disconnected for some reason the emergency call center may call back. This action does not prevent the occupant(s) of the vehicle from making another manual emergency call.**

SYSTEM STATUS INDICATOR



The indicator lights ① and ② above the SOS button indicate the status of the vehicle emergency call system. If the indicator light is illuminated red or no indicator light is illuminated the emergency call may not connect to the emergency call center when the SOS button is pressed. Also an intelligent Emergency call may not be sent when a collision occurs.

- During vehicle start up the system operates self diagnostics and the red indicator light is illuminated for up to 15 seconds.
- At any other time if the red indicator light is illuminated contact a NISSAN dealer or qualified workshop for assistance. In the event of a critical system failure that would disable the eCall in-vehicle system, the red indicator light is illuminated as a warning.

NOTE:

If the indicator light is illuminated red or no indicator light is illuminated, emergency services (such as the police or other agencies) should be contacted using other normal communication devices (for example a phone) in the event of an accident.

MODALITIES FOR EXERCISING DATA SUBJECT'S RIGHTS

The data subject (the vehicle's owner) has a right of access to data and as appropriate to request the rectification, erasure or blocking of data, concerning him or her, the processing of which does not comply with the provisions of Directive 95/46/EC. Any third parties to whom the data have been disclosed have to be notified of such rectification, erasure or blocking carried out in compliance with this Directive, unless it proves impossible or involves a disproportionate effort.

The data subject has a right to complain to the competent data protection authority if he or she considers that his or her rights have been infringed as a result of the processing of his or her personal data.

EMERGENCY SERVICES CALL ECALL/ SOS SYSTEM (if equipped for Mexico)

EMERGENCY SUPPORT

NissanConnect Services provide various services to support dealing with emergencies of the subscribed vehicle and the driver.

For example, in case of an illness or serious injury, you can seek support by pushing the in-vehicle Emergency Call (SOS) button and connecting to the NissanConnect Services Response Center. The NissanConnect Services Response Center can specify the location of the vehicle via GNSS, and the information will be sent to the police or other agencies as needed.

For information about other NissanConnect Services emergency support related services, refer to the NissanConnect Services website or contact the NissanConnect customer support line.

NissanConnect Services website:

www.nissan.com.mx/nissan-connect

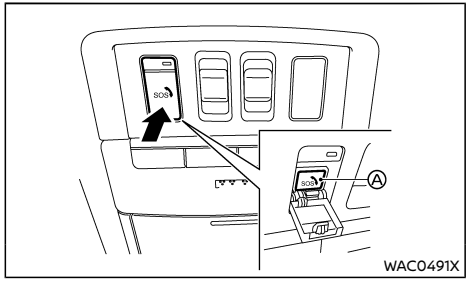
NissanConnect customer support line:

800 9647726

WARNING:

- **Please note that the Automatic Collision Notification service (if equipped) and Emergency Call function cannot be used in the following conditions:**
  - **— Emergency functions and services will not be available without a paid subscription to NissanConnect Services.**
  - **— The NissanConnect Services network system is disabled.**
  - **— The vehicle moves outside the service area where the TCU (Telematics Control Unit) is connected to the system.**
  - **— The vehicle is outside the area where the cellular network service is receivable.**
  - **— The vehicle is in a location with poor signal reception such as tunnels, underground parking garages, behind buildings or in mountainous areas.**
  - **— The line is busy.**
  - **— The TCU (Telematics Control Unit) or other systems of your vehicle are not working properly.**
  - **— It may not be possible to make an emergency call depending on the severity of a collision and/or emergency.**
- **Park the vehicle in a safe location and set the parking brake before operating the Emergency Call (SOS) button.**
- **Only use this service in case of an emergency. There may be a penalty for inappropriate use of the service.**
- **Radio waves could adversely affect electric medical equipment. Individuals who use a pacemaker should contact the device manufacturer regarding any possible effects before using the system.**
- **The TCU (Telematics Control Unit) antenna is installed inside the upper part of the instrument panel. An occupant should not get any closer to the antenna than specified by the pacemaker manufacturer. The radio waves from the TCU antenna may adversely affect the operation of the pacemaker while using the NissanConnect Services.**

Making an emergency call



The Emergency Call (SOS) button is located near the map light.

1. Push the cover to expose the Emergency Call (SOS) button Ⓐ.
2. Push the Emergency Call (SOS) button to make an emergency call.
3. When the line is connected, speak to the Response Specialist.

If you want to cancel the emergency call, push and hold the Emergency Call (SOS) button for a few seconds.

NOTE:

- **After the Emergency Call (SOS) button is pushed, it may take some time until the system initiates connection, depending on the technical environment and whether the TCU (Telematics Control Unit) is being used by other services.**
- **An indicator light on the Emergency Call (SOS) button shows the readiness of the emergency support system. If the indicator light is not illuminated, pushing the Emergency Call (SOS) button does not connect your vehicle to the Response Specialist.**

The indicator light blinks while connected to the NissanConnect Services Response Center.

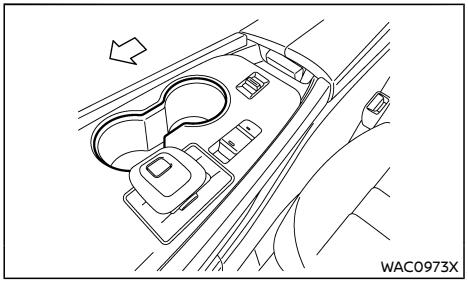
- **Even when the indicator light is illuminated, connection to the NissanConnect Services Response Center may not be possible. If this occurs in an emergency situation, contact the authorities by other means.**
- **To avoid disconnecting the line, keep the engine running during an emergency call, if it is safe to do so.**

CUP HOLDERS

CAUTION:

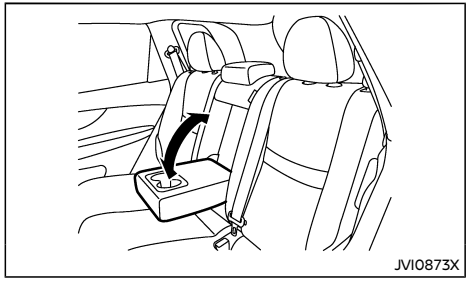
- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**

Front

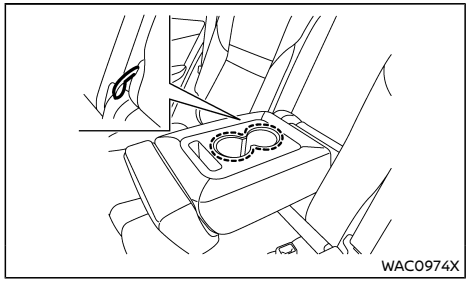


Center console

Second row seat



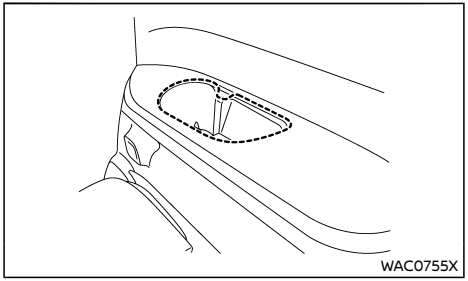
Two row model



Three row model

The cup holders are located in the fold-down armrest.

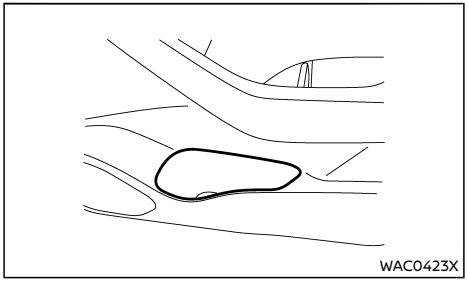
Third row seat (if equipped)



SOFT BOTTLE HOLDERS

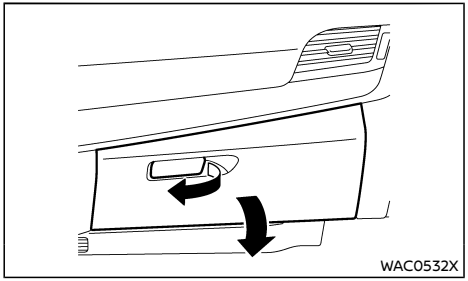
CAUTION:

- **Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during sudden braking or an accident.**
- **Do not use bottle holder for open liquid containers.**

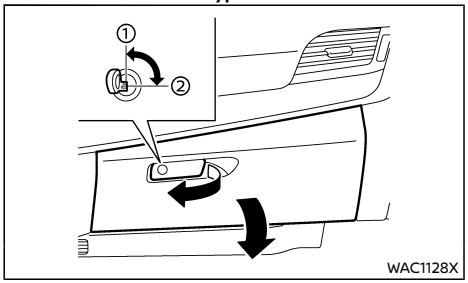


Door (front and second row seats)

GLOVE BOX



Type A



Type B

WARNING:

Keep glove box lid closed while driving to help prevent injury in an accident or a sudden stop.

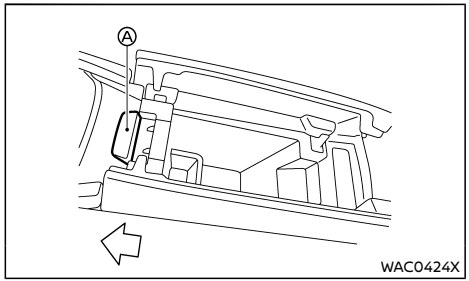
To open the glove box, pull the handle.

To close, push the lid in until the lock latches.

To lock ②/unlock ① the glove box (if equipped), use the mechanical key. (See "Keys" (P.3-2).)

The glove box light (if equipped) illuminates when the headlight switch is turned on.

CONSOLE BOX

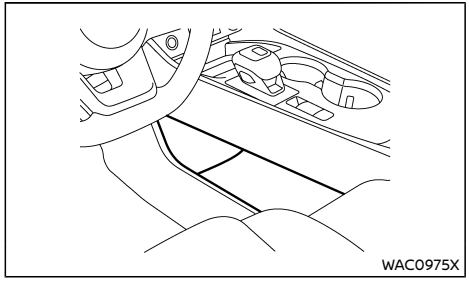


To open the console box lids, push the knob Ⓐ in the rearward.

To close, push each lid down until the lock latches.

If something is put on top of either side of the lids, that side lid may not open. Remove any object and push the knob again to open the lid.

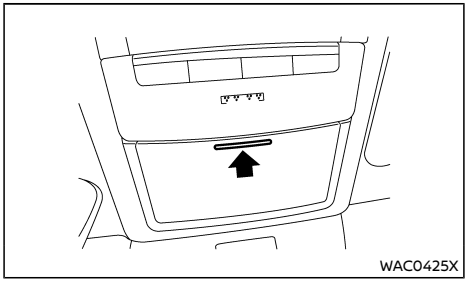
LOWER CONSOLE TRAY



CAUTION:

Do not place any objects in lower console tray that could be thrown about in the vehicle and cause injury during sudden braking or collision.

SUNGLASSES HOLDER



WARNING:

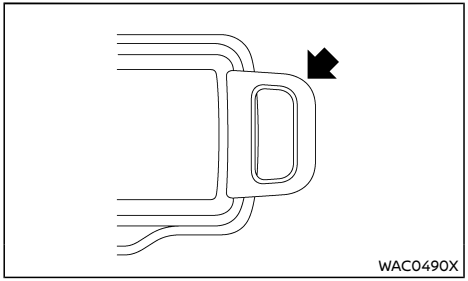
Keep the sunglasses holder closed while driving to avoid obstructing the driver's view and to help prevent an accident.

CAUTION:

- **Do not use for anything other than sunglasses.**
- **Do not leave sunglasses in the sunglasses holder while parking in direct sunlight. The heat may damage the sunglasses.**

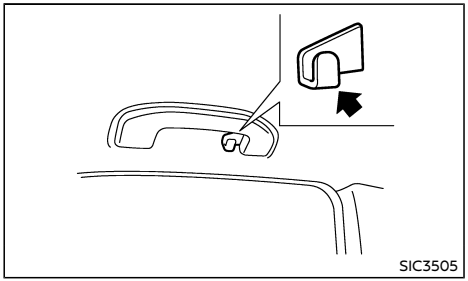
To open the sunglasses holder, push and release. Only store one pair of sunglasses in the holder.

CARD HOLDER



Slide a card in the card holder.

COAT HOOKS

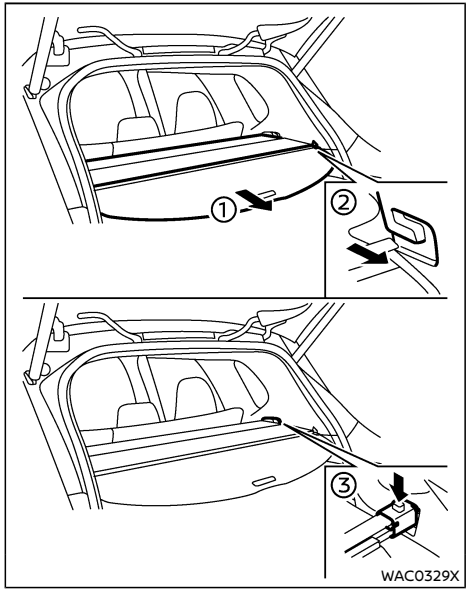


The coat hooks are located above the rear side windows.

CAUTION:

Do not apply a total load of more than 1 kg (2 lb) to the hook.

CARGO COVER (if equipped)



The cargo cover keeps the luggage compartment contents hidden from the outside.

To use the cargo cover, pull it out ① and insert both sides to the guide ②.

To remove the cargo cover, stow the cover and push the button ③.

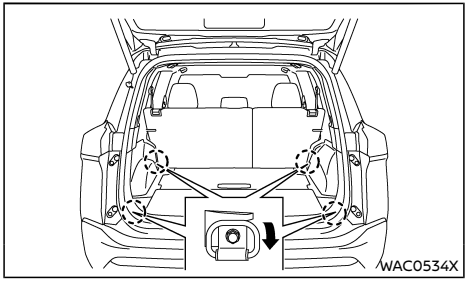
WARNING:

- **Never put anything on the cargo cover, no matter how small. Any object on it could cause an injury in an accident or**

sudden stop.

- **Do not leave the cargo cover in the vehicle with it disengaged from the holder.**
- **The child restraint top tether strap may be damaged by contact with the cargo cover or items in the luggage area. Remove the cargo cover from the vehicle or secure it in the luggage area. Also secure any items in the luggage area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**

LUGGAGE HOOKS



To use the hook, pull it down as illustrated.

WARNING:

- **Always make sure that the cargo is properly secured. Use the suitable ropes and hooks.**
- **Unsecured cargo can become dangerous in an accident or sudden stop.**
- **Do not apply a total load of more than 3 kg (7 lb) to a single hook.**

ADJUSTABLE LUGGAGE FLOOR (if equipped)

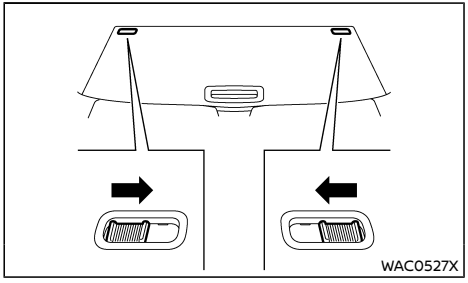
You can use the luggage compartment in different ways using the adjustable luggage boards.

WARNING:

Do not put objects heavier than 75 kg (165 lbs) on the load floor while in the upper position.

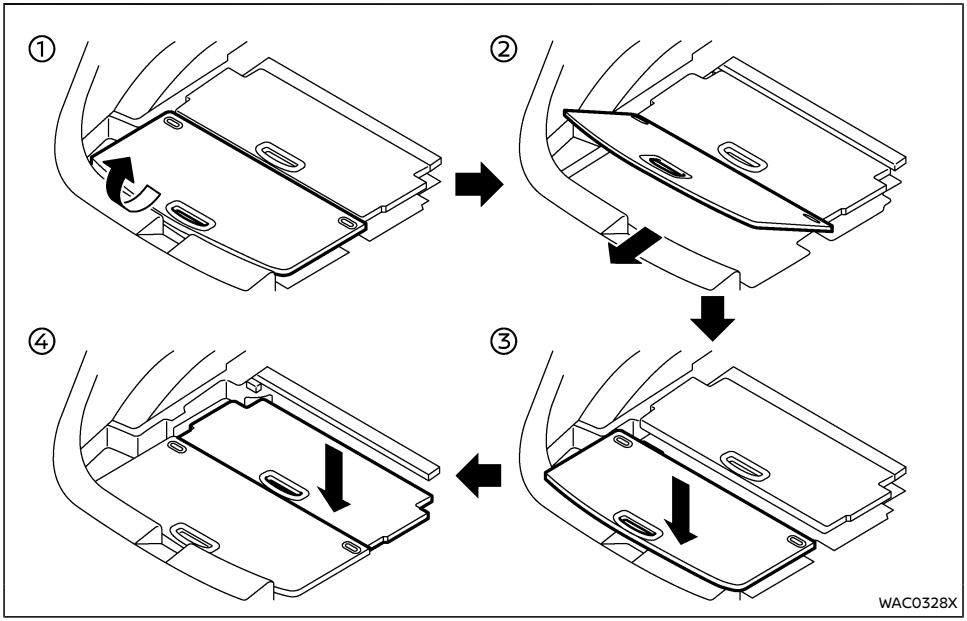
CAUTION:

- **Do not push the front edge of the luggage board forcibly. Doing so may cause the luggage board to be tilted, resulting in personal injury.**
- **Do not handle the luggage board forcibly as this may deform it.**
- **While in the upper position, do not recline the seatbacks.**
- **Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**



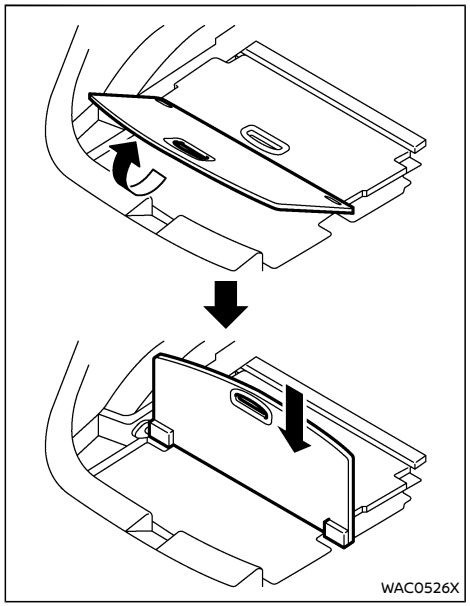
Before moving the rear (outer) luggage board, release the lock on the both sides of the board as shown (if equipped).

Two-stage mode



1. Pull the rear board upward ① to approximately 30°.
2. Pull the rear board toward the rear of the vehicle ② and then push it into the bottom of the luggage under space ③.
3. Pull up the front (inner) board and push it into the bottom of the luggage under space in the same way ④.

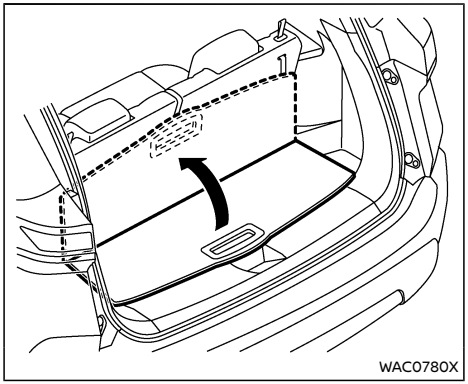
Vertical mode



1. Pull the rear board upward to 90°.
2. Push down the board until it stops.

LUGGAGE BOARD

Vertical mode (Three row model)

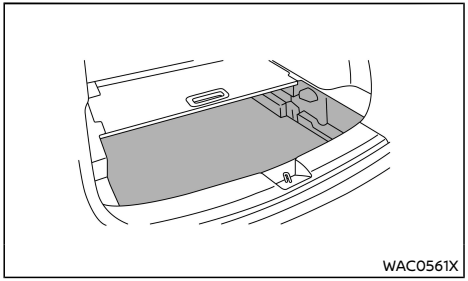


To use the vertical mode, insert the luggage board to slit of the finisher.

CAUTION:

Do not place the luggage board at vertical position while driving. This could damage the luggage board. Place the luggage board at normal position while driving.

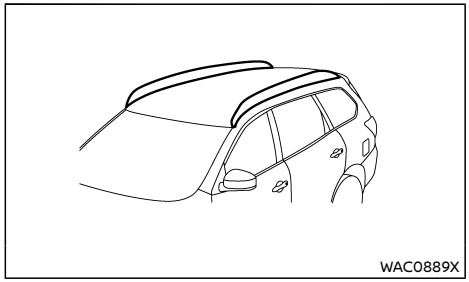
LUGGAGE UNDER SPACE



Example

To use the luggage under space, pull off the board.

ROOF RACK (if equipped)



Do not apply any load directly to the roof side rails. Cross bars must be installed before applying load/cargo/luggage to the roof of the vehicle. For additional information, it is recommended that you contact a NISSAN dealer.

The service load capacity for the roof side rails is 100 kg (221 lb), however do not exceed the accessory cross bars load capacity.

WARNING:

- **Always install the cross bars onto the roof side rails before loading cargo of any kind. Loading cargo directly onto the roof side rails or the vehicle's roof may cause vehicle damage.**
- **Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the cross bars.**
- **Heavy loading of the cross bars has the potential to affect the vehicle stability and handling during sudden or unusual handling maneuvers.**

- **Roof rack cross bars should be evenly distributed.**
- **Do not exceed maximum roof rack cross bars load.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.**

CAUTION:

Use care when placing or removing items from the roof rack. If you cannot comfortably lift the items onto the roof rack from the ground, use a ladder or a stool.

POWER WINDOWS

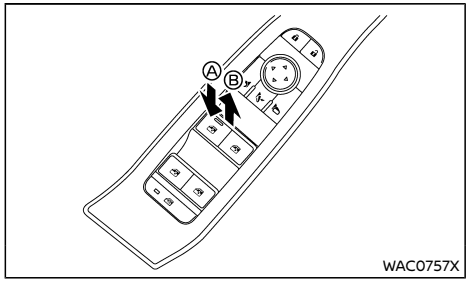
WARNING:

The driver is always responsible for all the power window operation including passenger's operation. Be sure to observe the following warnings for safety.

- **Never allow anyone to extend any portion of their body or objects out of the opening while the vehicle is in motion. Otherwise they may be seriously damaged by coming into contact with objects outside the vehicle or when abruptly braking.**
- **Make sure that all passengers have their hands, etc. inside the vehicle before operating the windows. Do not intentionally activate the auto-reverse function. If their hands or faces are caught in the windows, it could cause serious injury.**
- **Never allow children to operate the power window. Improper operation by children could lead to an accident. Depress the window lock button since children or other persons could be caught in the power window and this may cause serious damage.**
- **When operating the power windows, let children know it and make sure that their hands, arms, etc. are not placed near the power windows. Otherwise they may be caught in the power windows.**
- **Make sure that the ignition switch is in the "OFF" position and do not leave the Intelligent Key and children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

The power windows operate when the ignition switch is in the "ON" position.

Driver's window switch



Example

The driver's switch, the main switch, can control all windows.

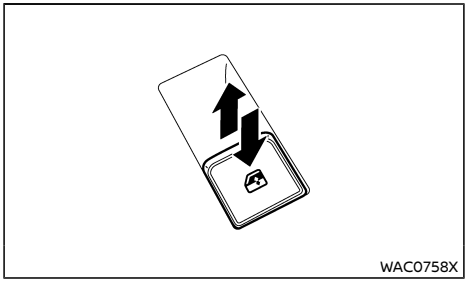
To open a window, push down Ⓐ the power window switch.

To close a window, pull up Ⓑ the power window switch.

Locking passengers' windows:

When the window lock button is pushed (the indicator illuminates), the rear passenger's windows cannot be operated with the rear passenger's power window switch. The rear passenger's windows can only be operated with the main switch (driver side switches). To cancel the passenger's windows lock, push the window lock button again.

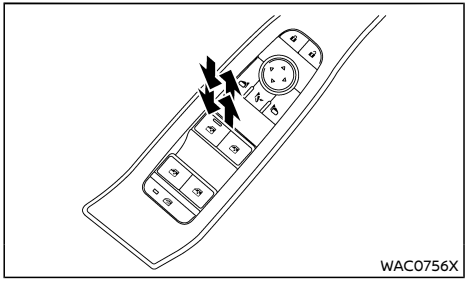
Passenger side power window switch



Example

The passenger's switch can control its corresponding window. When the window lock button on the driver's switch is pushed, the rear passenger's switch cannot be operated.

Automatic function (if equipped)



Example

The automatic function enables a window to fully open or close without holding the switch down or up.

To fully open the window, push the power window switch down to the second detent and release the switch. To fully close the window, pull the power window switch up to the second detent and release the switch. The switch does not have to be held during window operation.

To stop the window open/close operation during the automatic function, push down or pull up the switch in opposite directions.

Auto-reverse function:

WARNING:

There is a small distance just before the closed position which cannot be detected. Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.

The auto-reverse function enables a window to automatically reverse when something is caught in the window as it is closing by the automatic function. When the control unit detects an obstacle, the window will be lowered immediately.

Depending on the environment or driving conditions, the auto-reverse function may activate if an impact or load similar to something being caught in the window occurs.

Window timer:

The window timer allows the window switch to be operated for a short time even if the ignition switch is placed in the "OFF" position. The window timer will be cancelled when the driver's or front passenger's side door is opened or the preset time has expired.

Operating windows with Intelligent Key (if equipped)

The windows can be opened or closed by pushing the "UNLOCK" or "LOCK" button on the Intelligent Key. This function will not operate while the window timer is activated or when the windows need to be initialized. For details about the Intelligent Key button usage, see "How to use remote keyless entry function" (P.3-13).

Opening:

To open the windows, push the "UNLOCK" button on the Intelligent Key for about 3 seconds after the door is unlocked.

To stop opening, release the "UNLOCK" button.

If the window open operation is stopped on the way while pushing the "UNLOCK" button, release and push the button again until the windows open completely.

Closing:

To close the windows, push the "LOCK" button on the Intelligent Key for about 3 seconds after the door is locked.

To stop closing, release the "LOCK" button.

If the window close operation is stopped on the way while pushing the "LOCK" button, release and push the button again until the windows close completely.

When power window switch does not operate

If the power window automatic function does not operate properly, perform the following procedure to initialize the power window functions.

1. Close the door.
2. Place the ignition switch in the "ON" position.
3. Pull the power window switch and hold it to fully close the window.*1
4. Release the power window switch.
5. Pull the power window switch and hold it for approximately 5 seconds or more.*2
6. Push the power window switch down and hold it to fully open the window.
7. Release the power window switch.
8. Push the power window switch down and hold it for approximately 5 seconds or more.*2
9. Pull the power window switch and hold it to fully close the window.*1
10. Operate the window by the automatic function (window open and close) to confirm that the initialization is complete.

*1: If the window stops before reaching the fully closed position, release the switch, then pull and hold it again to fully close the window.

*2: After pulling or pushing the power window switch and holding it for approximately 5 seconds or more, the window will move again.

If the window cannot automatically be closed since the auto-reverse function activated due to a malfunction, perform the following procedure to cancel the auto-reverse function.

1. Pull the power window switch up until the auto-reverse function is activated, then the window will reverse automatically.
2. Repeat the procedure twice.
3. Pull the power window switch and hold it to close the window to confirm that the cancellation is completed.

WARNING:

When the auto-reverse function is canceled, the window will not automatically reverse even if the control unit detects an obstacle. Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.

If the power window functions do not operate properly after performing the procedure above, have your vehicle checked by a NISSAN dealer.

SUNROOF (if equipped)

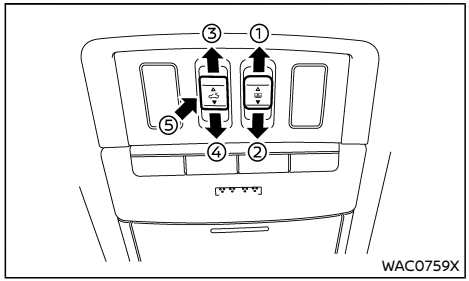
WARNING:

- **In an accident you could be thrown from the vehicle through an open sunroof. Always use seat belts and child restraints.**
- **Do not allow anyone to stand up or extend any portion of their body out of the sunroof opening while the vehicle is in motion or while the sunroof is closing.**

CAUTION:

- **Remove water drops, snow, ice or sand from the sunroof before opening.**
- **Do not place any heavy object on the sunroof or surrounding area.**

AUTOMATIC SUNROOF AND SUNSHADE



Sliding sunshade and sunroof

When the sunshade switch is pushed to the OPEN position ①, the sunshade will open. (If the sunshade starts to open from the position between close and half open, the sunshade will stop half. When the switch is pushed again, the sunshade will open fully.) When the sunroof switch is pushed to the OPEN position ③, the sunroof opens to the comfort mode position. (If the sunshade is close, the sunshade will open half first. When the switch is pushed again, the sunroof will open fully.)

When the sunroof switch is pushed to the CLOSE position ④, the sunroof will automatically close. When the sunshade switch is pushed to the CLOSE position ②, the sunshade will close. (If the sunshade starts to close from the position between full and half open, the sunshade will stop half. When the switch is pushed again, the sunshade will close fully. However, if the sunroof is open or tilted up, the sunshade will not close beyond half.)

To stop the sunshade or sunroof during the operation, push the sunroof switch to either of the OPEN ①, ③, CLOSE ②, ④ or UP ⑤ position.

Tilting sunroof

To tilt up the sunroof, push the sunroof switch to the up position ⑤.

To tilt down the sunroof, push the switch to the CLOSE position ④.

Comfort mode

This is the position used when driving with the sunroof open. When driving with the sunroof fully open, wind noise may be very loud. Use the comfort mode position when driving.

Auto-reverse function

WARNING:

There are some small distances just before the closed position which cannot be detected. Make sure that all passengers have their hands, etc. inside the vehicle before closing the sunroof and sunshade.

The auto-reverse function enables the sunroof and sunshade to automatically reverse when something is caught in the sunroof and sunshade as it is closing. When the control unit detects an obstacle, the sunroof and sunshade will open immediately.

Depending on the environment or driving conditions, the auto-reverse function may activate if an impact or load similar to something being caught in the sunroof and sunshade occurs.

If the auto-reverse function activates consecutively or the battery is discharged, the sunroof and sunshade may not close properly. In this case, push and hold the switch to the CLOSE position ④ to close the sunroof.

If the sunroof does not operate

If the sunroof and sunshade do not operate properly, perform the following procedure to initialize the operation system.

1. If the sunroof and sunshade are open, close them fully by repeatedly pushing the sunroof switch to the CLOSE ② and ④ position.
2. Push and hold the sunroof switch to the CLOSE position ④ for 10 seconds.

   The sunroof will be tilted up and the sunshade will close slightly and then stop.
3. Release the sunroof switch once, and immediately push the sunroof switch again and hold it to the CLOSE position ④.

   The sunroof and sunshade will move as follows:

   Sunshade fully open → sunroof tilt down → sunroof fully open → sunroof fully close → sunshade fully close
4. Release the sunroof switch after the sunroof and sunshade stopped.
5. Check if the sunroof switch operates normally.

WARNING:

The driver is always responsible for operating the sunroof properly, including the operation by all passengers. Failure to follow the warnings and instructions for proper use of the sunroof could result in serious injury or death.

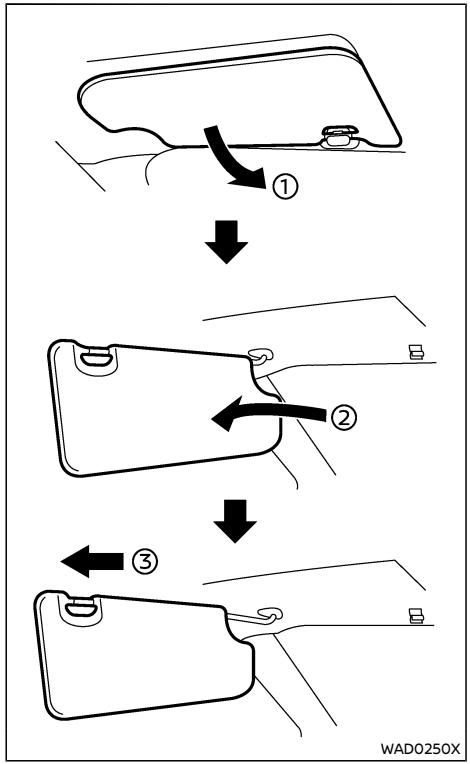
- **Do not allow children to operate the sunroof. Improper operation by children may cause an accident. If children or others get caught in the sunroof, it could cause serious injury.**

- **To help avoid risk of injury or death through unintended operation of the sunroof, place the ignition switch in the "OFF" position when leaving the vehicle, and do not leave children and the Intelligent Key inside the vehicle.**
- **Do not activate the auto-reverse function intentionally. If hands or face, etc. get caught in the sunroof, it could cause serious injury.**

CAUTION:

- **Do not place objects (such as newspapers, handkerchiefs, etc.) on the sunshade when it is extending or retracting causing improper operation or damage to the sunshade.**
- **Do not push the sunshade arm with your hands, etc., as this may deform it. Improper operation or damage to the sunshade may result.**
- **Do not put any object into the sunshade inlet port as this may result in improper operation or damage the sunshade.**
- **Do not hang any object on the arm rail as this may result in improper operation or damage the sunshade.**
- **Do not forcefully pull the sunshade. Doing so may elongate the sunshade. Improper operation or damage to the sunshade may result.**

If the sunroof does not operate properly after performing the procedure above, have your vehicle checked by a NISSAN dealer.

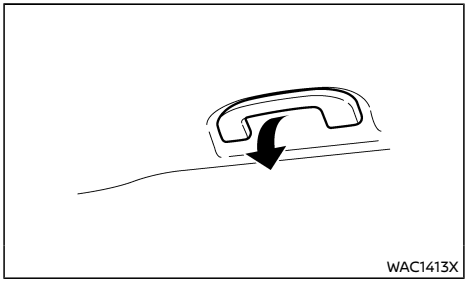


1. To block glare from the front, swing down the main sun visor ①.
2. To block glare from the side, remove the main sun visor from the center mount and swing it to the side ②.
3. Slide the sun visor ③ (if equipped) in or out as needed.

CAUTION:

- **Do not store the sun visor before returning the extension (if equipped) to its original position.**
- **Do not pull the extension sun visor (if equipped) forcedly downward.**

ASSIST GRIPS

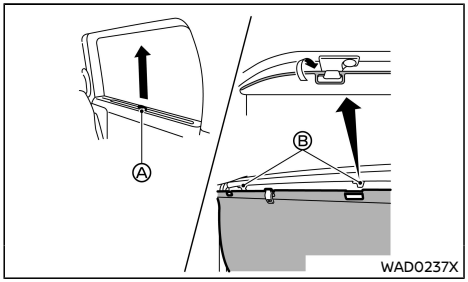

WAC1413X

The assist grips are located above the front and rear side windows.

CAUTION:

Do not use the assist grip when getting into or out of the vehicle. This may damage the assist grip and cause you to fall.

REAR SUNSHADE (if equipped)



WAD0237X

CAUTION:

- **Do not release the rear sunshade during operation. This could damage the sunshade or cause injury.**
- **Do not forcefully pull the sunshade. Doing so may elongate the sunshade. This could cause improper operation or could damage the sunshade.**
- **Do not place objects on or near the rear sunshade. This could cause improper operation or could damage the sunshade.**

The rear sunshades are equipped on the rear seat windows.

To raise the sunshade, pull the knob Ⓐ up and hang the sunshade on the hooks Ⓑ.

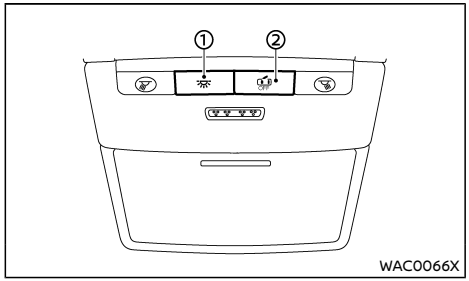
To store the sunshade, remove the sunshade from the hooks and lower it.

INTERIOR LIGHTS

CAUTION:

- **Do not leave the light switch on when the engine is not running for extended periods of time to prevent the battery from being discharged.**
- **Turn off the lights when you leave the vehicle.**

INTERIOR LIGHT SWITCH



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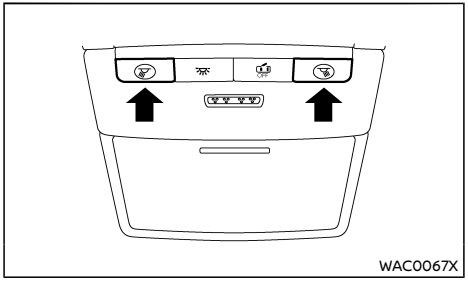
① The interior light can be turned ON regardless of door position. The light will go off after a period of time unless the ignition switch is placed in the "ON" position when any door is opened.

② The interior lights can be set to operate when the doors are opened. To turn off the interior lights when a door is open, push the switch, the interior lights will not illuminate, regardless of door position. The lights will go off when the ignition switch is placed in the "ON" position, or the driver's door is closed and locked.

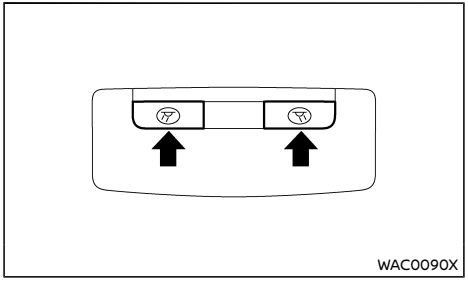
MAP LIGHTS



Push the button to turn the map lights on. To turn them off, push the button again.

The lights will also turn off after a period of time when the lights remain illuminated to prevent the battery from becoming discharged.

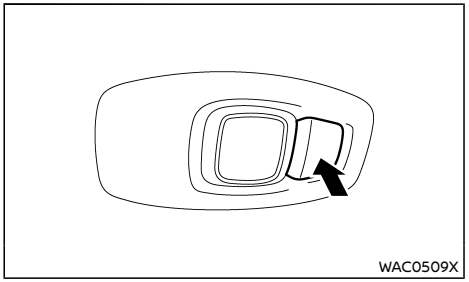
ROOM LIGHTS (if equipped)



Push the button to turn the room lights on. To turn them off, push the button again.

The lights will also turn off after a period of time when the lights remain illuminated to prevent the battery from becoming discharged.

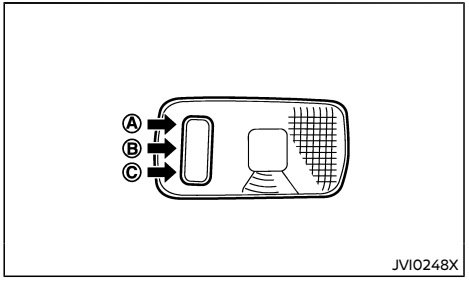
REAR PERSONAL LIGHTS (if equipped)



To turn the rear personal lights on, push the button. To turn them off, push the button again.

The lights will also turn off after a period of time when the lights remain illuminated to prevent the battery from becoming discharged.

CARGO LIGHT



The cargo light has a three-position switch.

ON position

When the cargo light switch is in the ON position Ⓐ, the cargo light illuminates, regardless of any condition.

DOOR position

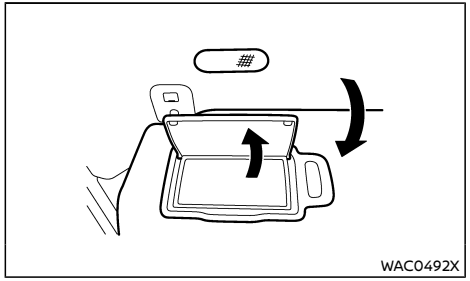
When the cargo light switch is in the DOOR position Ⓑ, the cargo light illuminates when the back door is opened.

OFF position

When the cargo light switch is in the OFF position Ⓒ, the cargo light does not illuminate, regardless of any condition.

The light will also turn off after a period of time when the light remains illuminated to prevent the battery from becoming discharged.

VANITY MIRROR LIGHTS (if equipped)



Example

The light over the vanity mirror will turn on when the cover on the vanity mirror is opened.

When the cover is closed, the light will turn off.

The light will also turn off after a period of time when the light remains illuminated to prevent the battery from becoming discharged.

MEMO

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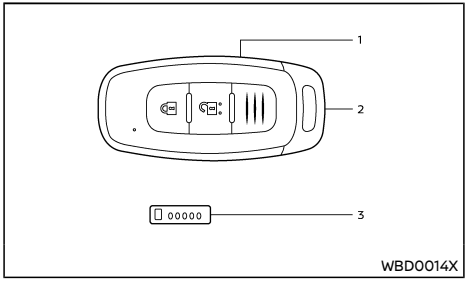
Your vehicle can only be driven with the keys specific to your vehicle. A key number plate is supplied with your key. Record the key number and keep the key number plate in a safe place, except in the vehicle, in case of the need to duplicate the keys.

The key can only be duplicated using an original key or the original key number. The key number is required when you have lost all of the keys and do not have the original key to duplicate from. If the key is lost, or you need extra keys, provide an original key or the key number to a NISSAN dealer.

CAUTION:

Do not leave the keys inside the vehicle when leaving the vehicle.



Example

1. Intelligent Key (2)
2. Mechanical key (in the Intelligent Key) (2)
3. Key number plate (1)

INTELLIGENT KEY

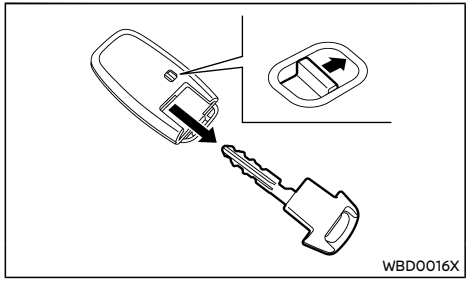
Your vehicle can only be driven with the Intelligent Keys, which are registered to your vehicle's Intelligent Key system components and NISSAN Anti-Theft System (NATS*) components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a NISSAN dealer prior to use with the Intelligent Key system and NATS of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to the NISSAN dealer.

*: Immobilizer

CAUTION:

- **Be sure to carry the Intelligent Key with you. Do not leave the vehicle with the Intelligent Key inside.**
- **Be sure to carry the Intelligent Key with you when driving. The Intelligent Key is a precision device with a built-in transmitter. To avoid damaging it, please note the following.**
  - **— The Intelligent Key is water resistant; however, wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
  - **— Do not bend, drop or strike it against another object.**
  - **— If the outside temperature is below −10°C (14°F) degrees, the battery of the Intelligent Key may not function properly.**
  - **— Do not place the Intelligent Key for an extended period in a place where temperatures exceed 60°C (140°F).**
  - **— Do not change or modify the Intelligent Key.**
  - **— Do not use a magnet key holder.**
  - **— Do not place the Intelligent Key near an electric appliance such as a television set, personal computer or cellular phone.**
  - **— Do not allow the Intelligent Key to come into contact with water or salt water, and do not wash it in a washing machine. This could affect the system function.**
- **If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key. This will prevent the Intelligent Key from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer**

Mechanical key



To remove the mechanical key, release the lock knob at the back of the Intelligent Key.

To install the mechanical key, firmly insert it into the Intelligent Key until the lock knob returns to the lock position.

Use the mechanical key to lock or unlock the driver's door and the glove box (if equipped with a key cylinder). (See "Doors" (P.3-3) and "Glove box" (P.2-69).)

CAUTION:

Always carry the mechanical key installed in the Intelligent Key.

WARNING:

- **Before opening any door, always look for and avoid oncoming traffic.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**

SUPER LOCK SYSTEM (if equipped)

WARNING:

For Super Lock system equipped models, failure to follow the precautions below may lead to hazardous situations. Make sure the Super Lock system activation is always safely conducted.

- **When the vehicle is occupied, never lock the doors with the Intelligent Key. Doing so will trap the occupants, since the Super Lock system prevents the doors from being opened from the inside of the vehicle.**
- **Only operate the Intelligent Key lock button when there is a clear view of the vehicle. This is to prevent anybody from being trapped inside the vehicle through the Super Lock system activation.**

Locking the doors with the Intelligent Key or the lock sensor (on the front door handles - if equipped) will lock all doors including the back door and activate the Super Lock system.

To activate the Super Lock system, double-press the LOCK button on the Intelligent Key or lock the doors by double-pressing the lock sensor. Hazard indicator lights flash longer to indicate Super Lock activation.

This means that none of the doors can be opened from the inside in order to prevent theft.

The system will be released when the door is unlocked with the Intelligent Key or the capacitive unlock sensor (on the front door handles - if equipped).

The Super Lock system will not activate when the doors are locked with the power door lock switch.

Emergency situations

If the Super Lock system is activated due to a traffic accident or other unexpected circumstances while you are in the vehicle:

- Place the ignition switch in the "ON" position, the Super Lock system will be released and all the doors can be unlocked with the power door lock switch. You can then open the doors.
- Unlock the door using the Intelligent Key. The Super Lock system will be released and you can open the door.
- Open or break the driver's door window and then insert the key into the outside door key cylinder and turn it towards the rear of the vehicle. The driver's door will unlock and can be opened from inside the vehicle.

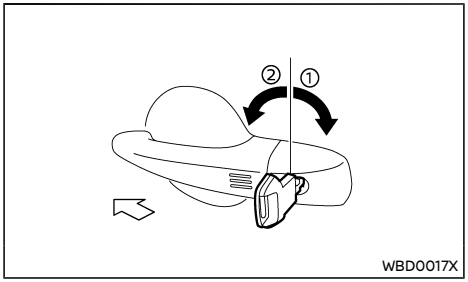
Locking without activating the Super Lock system

WARNING:

Do not leave the key inside the vehicle when leaving the vehicle.

Locking the doors using the door key cylinder, or by a single press of the LOCK button on the Intelligent Key, or by a single press of lock sensor (if equipped) will not activate the Super Lock system.

LOCKING WITH KEY



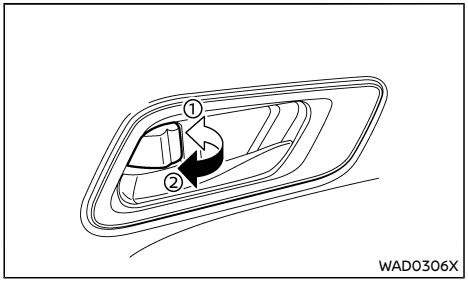
To lock the driver's door, turn the driver's door key cylinder to the rear of the vehicle ①.

Locking the driver's door will simultaneously lock all doors (if equipped).

To unlock the driver's door, turn the driver's door key cylinder to the front of the vehicle ②.

You can also lock or unlock the other doors and the back door by using the Intelligent Key function (if equipped). (See "Intelligent Key system" (P.3-6).)

LOCKING WITH INSIDE LOCK KNOB (if equipped)



To lock the door without the key, move the inside lock knob to the lock position ① then close the door (type A).

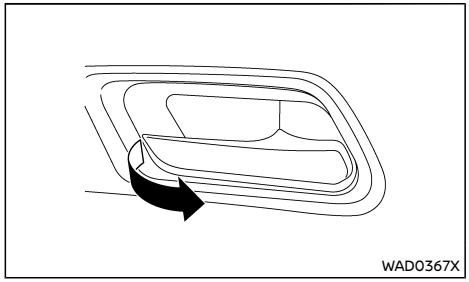
To lock the door without the key, move the inside lock knob to the lock position ① then close the door while pulling the front door outside handle (type B).

To unlock, move the inside lock knob to the unlock position ②.

To unlock and open the driver's door without using the lock knob, pull the inside door handle. The door is unlocked and opened (if equipped).

When locking the door without a key, be sure not to leave the key inside the vehicle.

UNLOCKING WITH INSIDE HANDLE (if equipped)



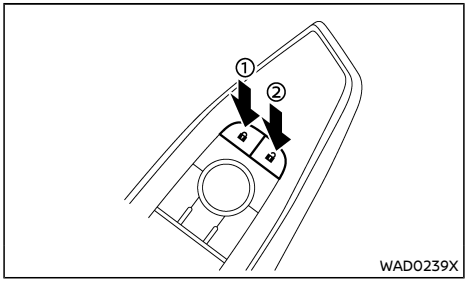
To unlock and open the door, pull the inside door handle as illustrated.

To switch the door unlock mode from one to another, push and hold the "LOCK" and "UNLOCK" button on the Intelligent Key or see "Vehicle Settings" (P.2-25).

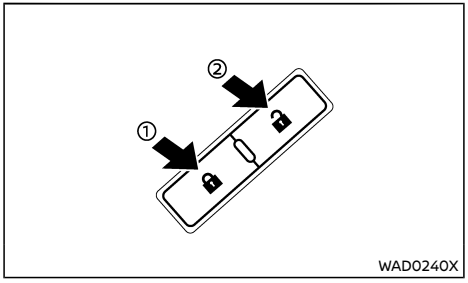
- Selective door unlock mode
  Only the corresponding door will be unlocked.
- All door unlock mode
  — Front inside door handle:
  All doors will be unlocked.
  — Rear inside door handle:
  Only the corresponding door will be unlocked.

The doors cannot be opened by using the inside door handle when the Super Lock system (if equipped) is activated.

LOCKING WITH POWER DOOR LOCK SWITCH



Driver's armrest



Front passenger's armrest

Operating the power door lock switch (located on the driver's and front passenger's doors) will lock or unlock all the doors.

To lock the doors, push the power door lock switch to the lock position ①.

The door lock indicator light (if equipped) on the roof console comes on when the doors are locked.

To unlock the doors, push the power door lock switch to the unlock position ②.

CAUTION:

Never leave the Intelligent Key in the vehicle when you leave the vehicle.

NOTE:

Models without the Super Lock system: If a door is manually opened from inside after having pressed the Intelligent Key LOCK button, the door will unlock and the door lock indicator light (if equipped) goes out.

Lockout protection

Lockout protection function helps to prevent the keys from being accidentally locked inside the vehicle.

Type A: When the power door lock switch is pushed to the lock position with any door open, all doors will not lock automatically and a chime will sound after the door is closed.

Type B: When the power door lock switch is pushed to the lock position with any door open, doors are locked and then unlocked automatically.

The power door lock switch will not be operated when the corresponding door is opened.

NOTE:

The doors may not lock when the Intelligent Key is in the same hand that is operating the lock sensor (if equipped) to lock the door. Put the Intelligent Key in a purse, pocket or your other hand.

CAUTION:

The lockout protection may not function under the following conditions:

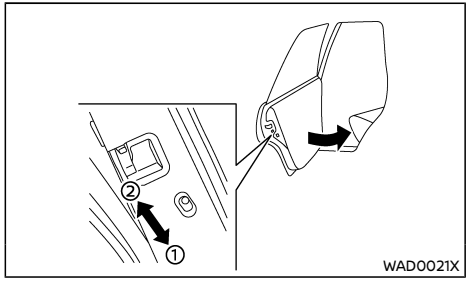
- **When the Intelligent Key is placed on top of the instrument panel.**
- **When the Intelligent Key is placed inside the glove box or a storage bin.**
- **When the Intelligent Key is placed inside the door pockets.**
- **When the Intelligent Key is placed inside or near metallic materials.**

Super Lock equipped models (if equipped)

If the doors are locked by double-pressing the Intelligent Key LOCK button or by double-pressing a lock sensor (if equipped), the Super Lock system will be activated. The door lock indicator light on the roof console comes on to indicate that all doors are locked, but it will not be possible to use the UNLOCK button of the power door lock switch to unlock the doors.

Locking the doors with the power door lock switch will not activate the Super Lock system.

CHILD SAFETY REAR DOOR LOCK

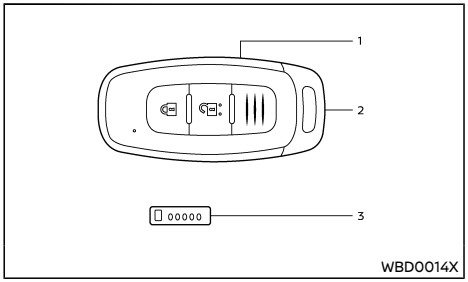


Child safety rear door locks help prevent the rear doors from being opened accidentally, especially when small children are in the

vehicle.

When the levers are in the lock position ①, the rear doors can be opened only from the outside.

To disengage, move the levers to the unlock position ②.



Example

1. Intelligent Key (2)
2. Mechanical key (in the Intelligent Key) (2)
3. Key number plate (1)

WARNING:

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The Intelligent Key transmits radio waves when the buttons are pushed. The radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.**

The Intelligent Key system can operate all the door locks using the remote controller function, touching lock or capacitive unlock sensor (if equipped) or pushing the request switch (if equipped) on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key system operation.

Be sure to read the following before using the Intelligent Key system.

CAUTION:

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key in the vehicle when you leave the vehicle.**

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key system transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key system under the following operating conditions.

- When operating near a location where strong radio waves/noises are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular phone, transceiver, and CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately 2 years. If the battery is discharged, replace it with a new one.

When the Intelligent Key battery is low, an

indicator illuminates in the vehicle information display. (See "4. Key Battery Low warning" (P.2-33).)

Since the Intelligent Key is continuously receiving radio waves, if the key is left near equipment which transmits strong radio waves/noises, such as signals from a TV and personal computer, the battery life may become shorter.

For information regarding replacement of a battery, see "Intelligent Key battery" (P.8-19).

As many as 4 Intelligent Keys can be registered and used with one vehicle. For information about the purchase and use of additional Intelligent Keys, it is recommended that you contact a NISSAN dealer.

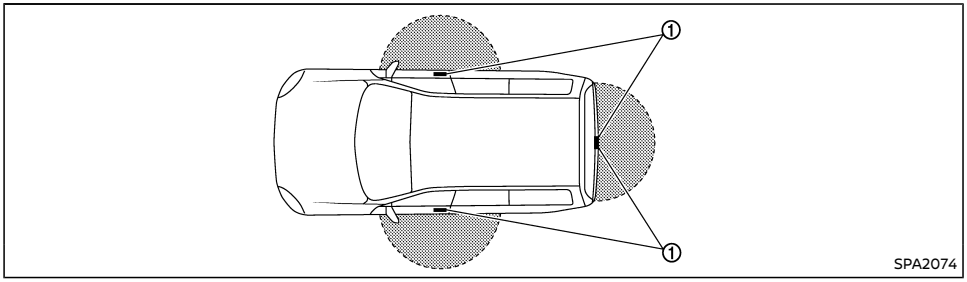
CAUTION:

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **If the outside temperature is below –10°C (14°F) degrees, the battery of the Intelligent Key may not function properly.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 60°C (140°F).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment, personal computers, cellular phone or wireless charger.**

If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, it is recommended that you contact a NISSAN dealer.

For models with lock sensor: The Intelligent Key function can be disabled. For information about disabling the Intelligent Key function, it is recommended that you contact a NISSAN dealer.

INTELLIGENT KEY OPERATING RANGE (models with lock sensor or request switch)



The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range from the lock or capacitive unlock sensors/request switch ①.

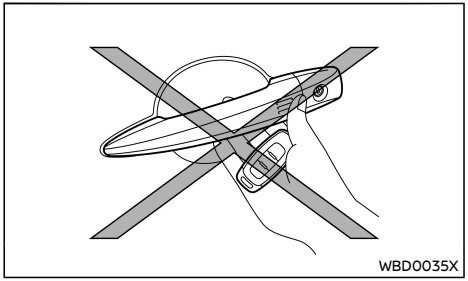
When the Intelligent Key battery is discharged or strong radio waves/noises are present near the operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 80 cm (31.50 in) from each sensor or request switch ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper, the sensors or the request switch may not function.

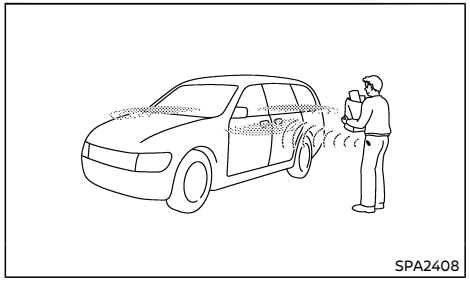
When the Intelligent Key is within the operating range, it is possible for anyone who does not carry the Intelligent Key to use the lock or capacitive unlock sensors or request switch to lock/unlock the doors including the back door.

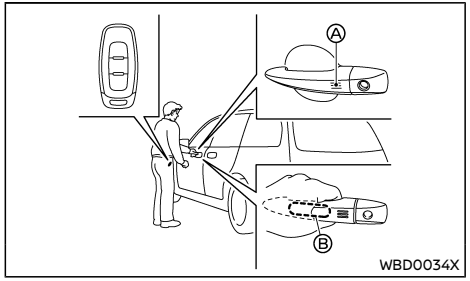
DOOR LOCKS/UNLOCKS PRECAUTION (models with lock sensor or request switch)



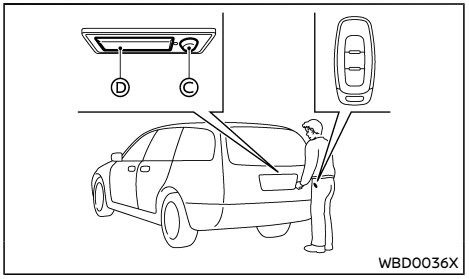
- Do not use the lock or capacitive unlock sensors or request switch with the Intelligent Key held in your hand as illustrated. The close distance to the door handle will cause the Intelligent Key system to have difficulty recognizing that the Intelligent Key is outside the vehicle.
- After locking with the lock sensors or the request switch, verify the doors are securely locked by testing them.
- To prevent the Intelligent Key from being left inside the vehicle, make sure you carry the key with you and then lock the doors.
- Do not pull the door handle before unlocking it by the capacitive unlock sensor or the request switch.

INTELLIGENT KEY OPERATION (models with lock sensor or request switch)





Example



Example

You can lock or unlock the doors without taking the key out from your pocket or bag.

When you carry the Intelligent Key with you, you can lock or unlock all doors by using the lock sensor Ⓐ (located on the front door handles) or back door request switch Ⓒ within the range of operation.

When you lock or unlock the doors, the hazard indicator will flash and the outside chime (if equipped) will sound as a confirmation. For details, see "Hazard indicator and outside chime/horn operation" (P.3-16).

Welcome light and farewell light function

- When you lock or unlock the doors or the back door, the clearance lights and the tail lights will illuminate for a period of time.
- With the doors locked and when approaching or leaving the vehicle with the Intelligent Key, the clearance lights, tail lights and license plate lights illuminate (if equipped). (If you approach or leave the vehicle several times without unlocking the door, the light may not illuminate to prevent unintended activation of the function.)
- The welcome light and farewell light function can be disabled. For information about disabling the welcome light and farewell light function, see "Vehicle Settings" (P.2-25).

Locking doors

1. Push the park button to engage the "P" (Park) position. Place the ignition switch in the "OFF" position and make sure you carry the Intelligent Key with you.
2. Close all doors.
3. Touch the lock sensor Ⓐ or push the back door request switch Ⓒ while carrying the Intelligent Key with you.
4. All doors and the back door will lock.

   For models with the Super Lock system:

   To activate the Super Lock system, lock the doors by double-pressing the lock sensor Ⓐ. The hazard indicator lights flash longer to indicate Super Lock system activation.

NOTE:

- **Lock sensors for all doors can be deactivated when the "I-Key Door Lock" is turned off in the Vehicle Setting of the vehicle information display. For additional information, see "Vehicle Settings" (P.2-25).**
- **Type A: Doors will not be locked when the engine is running or the ignition switch is in the "ON" position.**
- **Type B: Doors lock with the lock sensor or back door request switch while the ignition switch is not in the "OFF" position.**
- **Doors do not lock by touching the driver's door lock sensor while the driver's door is open. However, doors lock with the mechanical key even if any door is open.**
- **Doors do not lock with the lock sensor or back door request switch with the Intelligent Key inside the vehicle and a beep sounds to warn you. However, when an Intelligent Key is inside the vehicle, doors can be locked with another Intelligent Key.**
- **Doors do not lock with the lock sensor while the engine is running.**
- **If the door handle becomes wet while the Intelligent Key is within the effective range, the door may lock and unlock repeatedly. In this case, follow the following correction procedures to wash the vehicle:**
  - **Place the Intelligent Key in a location 2 m (6 ft) or more away from the vehicle. (Take care to ensure that the key is not stolen.)**
  - **If the Intelligent Key is inside the vehicle and a door handle becomes wet during a car wash, a buzzer will sound outside the vehicle. To turn off the alarm, take the Intelligent Key from inside the vehicle.**
- **The lock sensor may not work properly if it comes in contact with ice, snow, mud, etc. Clean the lock sensor and attempt to operate it again.**
- **If the door handle becomes wet, such as rain, the door may delay or prevent lock operation. In this case, try to touch firmly the sensor for at least 1 second.**
- **The lock sensor may not react immediately when the door handle gets wet from rain, etc. Keep touching the lock sensor until the doors lock, or touch the lock sensor after grasping the door handle.**

CAUTION:

- **After locking the doors using the lock sensor or back door request switch, make sure that the doors have been securely locked by operating the door handles or the back door opener switch.**
- **When locking the doors using the lock sensor or back door request switch, make sure to have the Intelligent Key in your possession before operating the lock sensor or back door request switch to prevent the Intelligent Key from being left in the vehicle.**
- **The lock sensor or back door request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.**

Unlocking doors

To switch the door unlock mode from one to another, push and hold the "LOCK" and "UNLOCK" button on the Intelligent Key (if equipped) or see "Vehicle Settings" (P.2-25).

Selective door unlock mode:

1. Carry the Intelligent Key with you.
2. Wrap the driver's or front passenger's door handle (capacitive unlock sensor) Ⓑ or push the back door request switch Ⓒ.
3. Only the corresponding door will be unlocked.
4. Touch the lock sensor Ⓐ within 5 seconds after releasing the door handle.
5. All doors will be unlocked.

All door unlock mode:

1. Carry the Intelligent Key with you.
2. Wrap the front door handle (capacitive unlock sensor) Ⓑ or push the back door request switch Ⓒ.
3. All doors will be unlocked.
4. Operate the door handles to open the doors.

CAUTION:

If a door handle is pulled while unlocking the doors, that door may not be unlocked. Returning the door handle to its original position will unlock the door. If the door does not unlock, after returning the door handle, touch the capacitive unlock sensor or push the request switch to unlock the door.

Automatic relock:

All doors will be locked automatically unless one of the following operations is performed within 30 seconds after touching the capacitive unlock sensor or pushing the request switch while the doors are locked.

- Opening any doors.
- Pushing the ignition switch.

If during the preset time period, the "UNLOCK" button on the Intelligent Key is pushed, all doors will be locked automatically after another 30 seconds.

Opening back door

1. Carry the Intelligent Key.
2. Push the back door opener switch Ⓓ.
3. The back door will unlock and then open.

WALK AWAY LOCK FUNCTION (if equipped)

When you walk away from the vehicle with the Intelligent Key, the vehicle will be locked automatically by the walk away lock function. This function is disabled by the default setting. You can enable this function by the vehicle information display. For additional information, see "Vehicle Settings" (P.2-25).

NOTE:

- **When the doors are locked by the walk away lock function, the hazard indicator flashes once. Be sure to confirm the door locks before you leave the vehicle.**
- **The walk away lock function may not operate under the following conditions:**
  - **When the door(s) and/or the back door are not closed securely.**
  - **When the engine is running.**
  - **When the Intelligent Key is placed inside of the vehicle.**
  - **When you place the Intelligent Key outside of the vehicle for a period of time. (When a door is opened and closed, the walk away lock function will be reactivated.)**

APPROACH UNLOCK FUNCTION (if equipped)

When you approach the vehicle with the Intelligent Key, the vehicle (all the doors) will be unlocked automatically by the approach unlock function. This function is disabled by the default setting. You can enable this function by the vehicle information display. When this function is activated, selective unlock is disabled. For additional information, see "Vehicle Settings" (P.2-25).

NOTE:

- **When you approach the vehicle from the front, the approach unlock function may not operate unless you get close to the door.**
- **The approach unlock function may not operate under the following conditions:**
  - **When the Intelligent Key is placed inside of the vehicle.**
  - **When you place the Intelligent Key outside of the vehicle for a period of time. (When a door is unlocked and locked, the approach unlock function will be reactivated.)**
  - **When the engine is running (except the remote engine start function is performed).**
  - **When 8 days have passed since the vehicle was locked.**
  - **When you lock the vehicle with the power door lock switch.**
- **If the approach unlock function is activated while the selective unlock function is turned on, the selective unlock function is deactivated automatically. If the selective unlock function is activated while the approach unlock function is turned on, the approach unlock function is deactivated automatically.**

  Once the approach unlock function is activated, the selective unlock function needs to be activated with the vehicle information display if you want to use the selective unlock function.

BATTERY SAVER SYSTEM

When the following condition is met for a period of time, the battery saver system will cut off the power supply to prevent battery discharge.

- The ignition switch is in the "ON" position. (See "Push-button ignition switch positions" (P.5-14).)

Warning lights and audible reminders

To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key listed on the following chart or to help prevent the vehicle from being stolen, chime or beep sounds inside and outside the vehicle and the warning display appears on the vehicle information display.

When a chime or beep sounds or the warning display appears, be sure to check the vehicle and Intelligent Key.

See "Troubleshooting guide" (P.3-12) and "Vehicle information display" (P.2-21).

TROUBLESHOOTING GUIDE

Verify the location of all Intelligent Keys that are programmed for the vehicle. If another Intelligent Key is in range or inside the vehicle, the vehicle system may respond differently than expected.

Symptom		Possible cause	Action to take
When stopping the engine	The Shift to Park warning appears on the display and the inside warning chime sounds continuously.	The shift position is not in the "P" (Park) position.	Push the park button to engage the "P" (Park) position.
	"Press and Hold to Stop Engine" message appears on the display.	The Intelligent Key is not inside the vehicle.	Carry the Intelligent Key inside the vehicle and push the ignition switch once to stop the engine.
		There is not the Intelligent Key or the battery charge is low.	Rapidly push the ignition switch 3 consecutive times or push and hold the ignition switch for more than 2 seconds to stop the engine.
When opening the driver's door to get out of the vehicle	The door/back door open warning appears on the display.	The ignition switch is in the "ON" position.	Place the ignition switch in the "OFF" position.
When closing the door after getting out of the vehicle	The No key detected warning appears on the display, the outside chime sounds three times and the inside warning chime sounds for approximately 3 seconds.	The engine is running.	Place the ignition switch in the "OFF" position.
	The Rear Door Alert warning message (if equipped) appears on the display, the horn sounds three times, pauses, and sounds three more times, or a Check Rear Seat warning appears on the display.	The Rear Door Alert is activated.	Check the rear seat for all articles, clear the Rear Door Alert warning message by using the steering switches.
When touching the lock sensor (if equipped) or pushing the back door request switch (if equipped) to lock doors	The outside chime sounds for approximately 3 seconds.	The Intelligent Key is inside the vehicle.	Carry the Intelligent Key with you.
When pushing the ignition switch to start the engine	The Key Battery Low warning appears on the display.	The Intelligent Key battery charge is low.	Replace the battery with a new one. (See "Intelligent Key battery" (P.8-19).)
When pushing the ignition switch	The Key System Fault warning appears on the display.	It warns of a malfunction with the Intelligent Key system.	It is recommended that you contact a NISSAN dealer.

HOW TO USE REMOTE KEYLESS ENTRY FUNCTION

WARNING:

- **Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.**
- **The Intelligent Key transmits radio waves when the buttons are pushed. The radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.**

CAUTION:

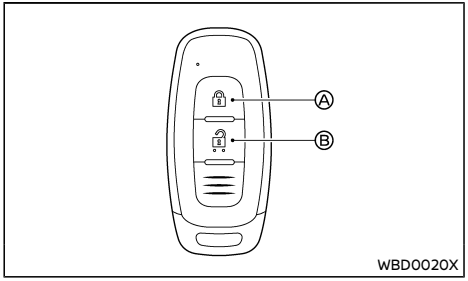
- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **If the outside temperature is below –10°C (14°F) degrees, the battery of the Intelligent Key may not function properly.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 60°C (140°F).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment, personal computers, cellular phone or wireless charger.**

The remote keyless entry function can operate all door locks using the remote keyless entry function of the Intelligent Key. The remote keyless entry function can operate at a distance of approximately 1 m (3.3 ft) from the vehicle. (The operating distance depends upon the conditions around the vehicle.)

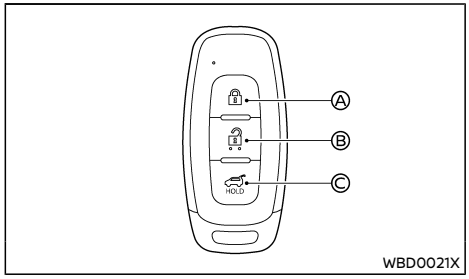
The remote keyless entry function will not operate:

- When the Intelligent Key is not within the operational range.
- When the Intelligent Key battery is discharged.

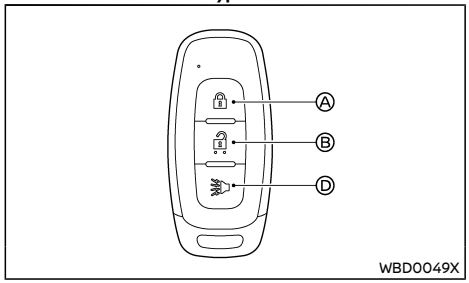
The remote keyless entry function can also operate the vehicle alarm.



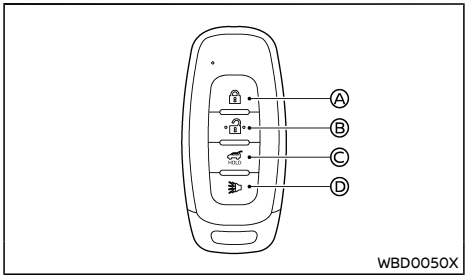
Type A



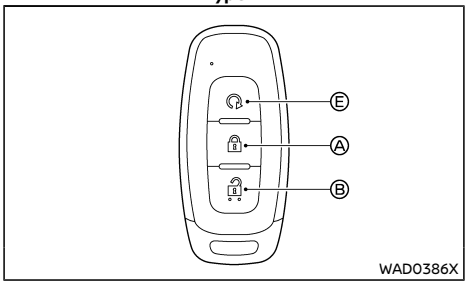
Type B



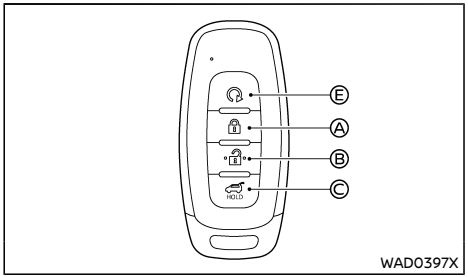
Type C



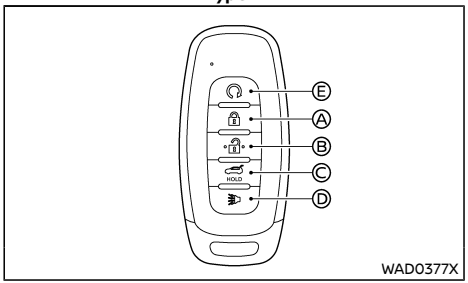
Type D



Type E



Type F



Type G

Ⓐ LOCK button
Ⓑ UNLOCK button
Ⓒ Power back door button
Ⓓ PANIC button
Ⓔ Remote engine start button

When you lock or unlock the doors or the back door, the hazard indicator will flash and the outside chime/horn (if equipped) will sound as a confirmation. For details, see "Hazard indicator and outside chime/horn operation" (P.3-16).

Locking doors

1. Place the ignition switch in the "OFF" position.
2. Carry the Intelligent Key with you.*
3. Close all the doors.
4. Push the "LOCK" button Ⓐ on the Intelligent Key.
5. All the doors and the back door will lock.

*: Doors will lock with the Intelligent Key while the ignition switch is in the "ON" position.

Operate the door handles to confirm that the doors have been securely locked.

Unlocking doors

To switch the door unlock mode from one to another, push and hold the "LOCK" and "UNLOCK" button on the Intelligent Key (if equipped) or see "Vehicle Settings" (P.2-25).

Selective door unlock mode:

1. Push the "UNLOCK" button Ⓑ on the Intelligent Key.
2. The driver's door will be unlocked.
3. Push the "UNLOCK" button Ⓑ again within 5 seconds.
4. All doors will be unlocked.
5. Operate the door handles to open the doors.

All door unlock mode:

1. Push the "UNLOCK" button Ⓑ on the Intelligent Key.
2. All doors will be unlocked.
3. Operate the door handle to open the door.

Automatic relock:

All doors will be locked automatically unless one of the following operations is performed within 30 seconds after pushing the "UNLOCK" button Ⓑ while the doors are locked.

- Opening any door (including the back door).
- Pushing the ignition switch.

Opening or closing windows (if equipped)

The windows can be opened or closed with the Intelligent Key. This function will not operate while the window timer is activated or the windows need to be initialized.

See "Power windows" (P.2-74).

Opening:

To open the windows, push the "UNLOCK" button Ⓑ on the Intelligent Key for **about 3 seconds** after the door is unlocked.

To stop opening, release the "UNLOCK" button Ⓑ.

If the window open operation is stopped on the way while pushing the "UNLOCK" button Ⓑ, release and push the button again until the window opens completely.

Closing:

To close the windows, push the "LOCK" button Ⓐ on the Intelligent Key for **about 3 seconds** after the door is locked.

To stop closing, release the "LOCK" button Ⓐ.

If the window close operation is stopped on the way while pushing the "LOCK" button Ⓐ, release and push the button again until the window closes completely.

Opening/closing back door (if equipped)

1. Push the power back door button Ⓒ for more than 1 second.
2. The back door will automatically open.

The outside chime sounds 3 times.

To close the back door, push the power back door button for more than 1 second.

The back door will automatically close.

If the button is pushed while the back door is being opened or closed, the back door will immediately stop. Pushing the button again will reverse the direction of the back door. However, when the back door is near the fully open position, it moves in the closing direction and when the back door is near the fully close position, it moves in the opening direction.

Using panic alarm (if equipped)

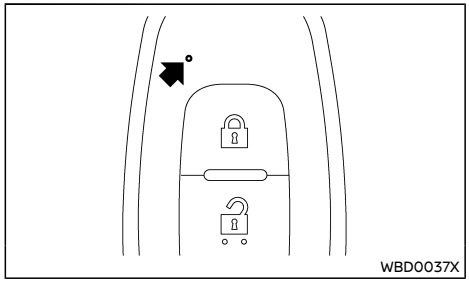
If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC button Ⓓ on the Intelligent Key for **more than 0.5 seconds.**
2. The theft warning alarm and hazard indicators will stay on for 25 seconds.
3. The panic alarm stops when:
   - It has run for 25 seconds, or
   - Any of the buttons on the Intelligent Key is pushed.

Remote engine start (if equipped)

The remote engine start button Ⓔ is on the Intelligent Key if the vehicle has remote engine start function. This function allows the engine to start from outside the vehicle. See "Remote engine start" (P.3-19).

Intelligent Key button operation light



The light blinks only when you push any button on the Intelligent Key. The light illumination only signifies that the Intelligent Key has transmitted a signal. You may look and/or listen to verify that the vehicle has performed the intended operation. If the light does not blink, your battery may be too weak to communicate to the vehicle. If this occurs, the battery may need to be replaced.

For additional information regarding the replacement of a battery, see "Intelligent Key battery" (P.8-19).

HAZARD INDICATOR AND OUTSIDE CHIME/HORN OPERATION

When you lock or unlock the doors, the hazard indicator will flash and outside chime/horn (if equipped) will sound as a confirmation.

The following descriptions show how the hazard indicator and outside chime/horn (if equipped) will activate when locking or unlocking the doors.

Type A

Operation	**DOOR LOCK**	**DOOR UNLOCK**
Touching the lock or capacitive unlock sensor (if equipped) or pushing back door request switch (if equipped)	HAZARD - **once**	HAZARD - **twice**
Walk away lock (if equipped) or approach unlock (if equipped)	HAZARD - **once**	HAZARD - **twice**
Pushing or button	HAZARD - **once**	HAZARD - **twice**

Type B

Operation	**DOOR LOCK**	**DOOR UNLOCK**
Touching the lock or capacitive unlock sensor (if equipped) or pushing back door request switch (if equipped)	CHIME - **twice** HAZARD - **twice**	CHIME - **once** HAZARD - **once**
Pushing or button	CHIME - **twice** HAZARD - **twice**	CHIME - **once** HAZARD - **once**

Type C

Operation	**DOOR LOCK**	**DOOR UNLOCK**
Touching the lock or capacitive unlock sensor (if equipped) or pushing back door request switch (if equipped)	CHIME - **twice** HAZARD - **twice**	CHIME - **once** HAZARD - **once**
Pushing or button	HORN - **once** HAZARD - **twice**	HORN - **none** HAZARD - **once**

WARNING:

- **Do not change or modify the security system. Doing so could affect the proper operation of the system.**
- **Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.**

Your vehicle is equipped with the following security systems:

- Theft warning (if equipped)
- NISSAN Anti-theft System (NATS)*

(* immobilizer)

THEFT WARNING SYSTEM (if equipped)

The theft warning system provides visual and audio alarm signals if parts of the vehicle are disturbed.

For models with ultrasonic sensor

How to activate system:

1. Close all windows and sunroof (if equipped).
2. Place the ignition switch in the "OFF" position.
3. Carry the Intelligent Key with you and get out of the vehicle.
4. Make sure the hood and the back door are closed. Close and lock all doors with the Intelligent Key, the lock sensor (on the front door handles) or the request switch.

   If the hood is open, the buzzer will sound. The buzzer will stop when the hood is correctly closed.

   The system will be activated in approximately 20 seconds.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors locked and the ignition switch off. Place the ignition switch in the "ON" position to turn the system off.

If the system malfunctions, the short beep sounds 5 times or the hazard indicator blinks for about 10 seconds. Have the system checked by a NISSAN dealer.

Theft warning system operation:

The warning system will give the following alarm:

- The hazard indicator lights blink and the horn sounds intermittently for approximately 30 seconds.
- The alarm automatically turns off after approximately 30 seconds. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated when:

- operating the door or the back door without using the Intelligent Key, the capacitive unlock sensor (on the front door handles) or the request switch.
- opening the hood (if equipped).
- the volumetric sensing system (ultrasonic sensor) is triggered (when it is activated).
- the power supply is disconnected.

How to stop alarm:

- The alarm will stop by unlocking a door with the capacitive unlock sensor, the request switch or the "UNLOCK" button on the Intelligent Key.
- The alarm will stop if the ignition switch is placed in the "ON" position.

Operation of the ultrasonic sensor:

The ultrasonic sensor (volumetric sensing), detects movement in the passenger's compartment. When the theft warning system is set to the armed position, it will automatically switch on the ultrasonic sensor.

It is possible to exclude the ultrasonic sensor (for example, when transporting the vehicle on a ferry).

To exclude the ultrasonic sensor:

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Vehicle Settings". Then push the scroll dial.
2. Select "Alarm System". Then push the scroll dial. The following options are available:
   - Always ON

     When this item is selected, the ultrasonic sensor will activate each time the alarm is set.
   - Ask on Exit

     When this item is selected, the system provides the choice to disable the ultrasonic sensor after the ignition switch is placed in the "OFF" position.
   - Disable Once

     When this item is selected, the ultrasonic sensor will be disabled until the next time the ignition switch is placed in the "ON" position.

   Select "Disabled Once" or "Ask on Exit". Then push the scroll dial.
3. Close the doors, hood and back door. Lock them using the Intelligent Key, the lock sensor or the request switch.

The ultrasonic sensor is now excluded from the

theft warning system. All other functions of the system remain activated until the theft warning system is disarmed again.

For models without ultrasonic sensor

How to activate system:

1. Close all windows and sunroof (if equipped).

   The system can be armed even if the windows are open.
2. Place the ignition switch in the "OFF" position.
3. Remove the Intelligent Key from the vehicle.
4. Close all doors, hood and back door. Lock all doors. The doors can be locked with the Intelligent Key, the lock sensor (on the front door handles) (if equipped), request switch (if equipped), power door lock switch or mechanical key.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors, hood, and back door locked with the ignition switch in the "OFF" position. When placing the ignition switch in the "ON" position, the system will be released.

Theft warning system operation:

The vehicle security system will give the following alarm:

- The hazard indicator lights blink and the horn sounds intermittently (if equipped).
- The alarm automatically turns off after approximately 27 seconds. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated by:

- Unlocking the door or opening the back door without using the button on the Intelligent Key, the capacitive unlock sensor (on the front door handles) (if equipped), the request switch (if equipped) or the mechanical key. (Even if the door is opened by releasing the door inside lock knob, the alarm will activate.)
- Opening the hood.

How to stop alarm:

- The alarm will stop by unlocking a door with the capacitive unlock sensor (if equipped), the request switch (if equipped) or the "UNLOCK" button on the Intelligent Key.
- The alarm will stop if the ignition switch is placed in the "ON" position.

NISSAN ANTI-THEFT SYSTEM (NATS)

The NATS (NISSAN Anti-Theft System) will not allow the engine to start without the use of the registered key.

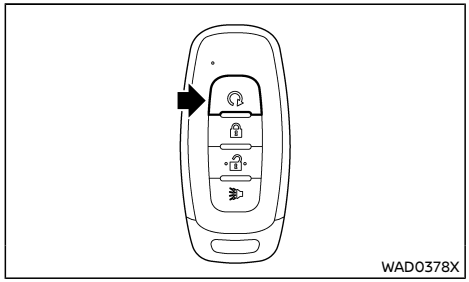
If the engine does not start using the registered Intelligent Key, it may be due to interference caused by:

- Another Intelligent Key.
- Automated toll road device.
- Automated payment device.
- Other devices that transmit similar signals.

Start the engine using the following procedure:

1. Remove any items that may be causing the interference away from the Intelligent Key.
2. Start the engine again.

If this procedure allows the engine to start, NISSAN recommends placing the registered Intelligent Key separate from other devices to avoid interference.



Example

The remote engine start button is on the Intelligent Key if the vehicle has remote engine start function. This function allows the engine to start from outside the vehicle.

Some systems, such as the air conditioner system, will turn on during a remote engine start, if the system was on the last time the ignition switch was turned off.

Laws in some local communities may restrict or prohibit the use of remote engine start, or the amount of time a parked vehicle engine may idle. For example, some laws require a person using remote engine start to have the vehicle in view or may restrict idling time except in freezing temperatures. Check local regulations for any requirements.

Other conditions may affect the remote engine start function. See "Conditions the remote engine start will not work" (P.3-21).

Other conditions can affect the performance of the Intelligent Key transmitter. See "Intelligent Key system" (P.3-6) for additional information.

REMOTE ENGINE START OPERATING RANGE

WARNING:

- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Do not use remote engine start in closed spaces such as a garage. Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**

CAUTION:

When the Intelligent Key battery is discharged or other strong radio wave sources are present near the operating location, the Intelligent Key operating range becomes narrower, and the Intelligent Key may not function properly.

The remote engine start function can only be used when the Intelligent Key is within the specified operating range from the vehicle.

The remote engine start operating range is approximately 60 m (197 ft) from the vehicle.

REMOTE STARTING THE ENGINE

To use the remote start function to start the engine, perform the following:

1. If the doors are unlocked, push the "LOCK" button to lock all doors.
2. Aim the Intelligent Key at the vehicle.
3. Push the "LOCK" button again.
4. Within 5 seconds push and hold the remote engine start button until the turn signal lights flash and the tail lights illuminate. If the vehicle is not within view, push and hold the remote engine start button for at least 2 seconds.

The following events will occur when the engine starts:

- The front parking lights will turn on and remain on as long as the engine is running.
- The doors will be locked and the air conditioner system may turn on.
- The engine will continue to run for about 10 minutes. Repeat the steps to extend the time for an additional 10 minutes. See "Extending engine run time" (P.3-20).

Depress and hold the brake pedal, then place the ignition switch in the "ON" position before driving. For further instructions, see "Driving the vehicle" (P.5-19).

EXTENDING ENGINE RUN TIME

The remote engine start function can be extended one time by performing the steps listed in "Remote starting the engine" (P.3-20). Run time will be calculated as follows:

- The first 10 minute run time will start when the remote engine start function is performed.
- The second 10 minutes will start immediately when the remote engine start function is performed. For example, if the engine has been running for 5 minutes, and 10 minutes are added, the engine will run for a total of 15 minutes.
- Extending engine run time will count towards the two remote engine start limit.

A maximum of two remote engine starts, or a single start with an extension can be used.

The vehicle needs to be driven at speeds of 7 km/h (4 MPH) before the remote engine start procedure can be used again.

CANCELING A REMOTE ENGINE START

To cancel a remote engine start, perform one of the following:

- Aim the Intelligent Key at the vehicle and push the remote engine start button until the front parking lights turn off.
- Turn on the hazard indicator flashers.
- Cycle the ignition switch "ON" and then "OFF".
- The extended engine run time has expired.
- The first 10 minute timer has expired.
- The engine hood has been opened.
- The shift position is shifted out of the "P" (Park) position.
- The theft alarm sounds due to illegal entry into the vehicle.
- The ignition switch is pushed without an Intelligent Key in the vehicle.
- The ignition switch is pushed with an Intelligent Key in the vehicle but the brake pedal is not depressed.
- The accelerator pedal is depressed.

- The vehicle moves after a remote engine start. (The hazard indicator flashers blink once and the engine is stopped.)

CONDITIONS THE REMOTE ENGINE START WILL NOT WORK

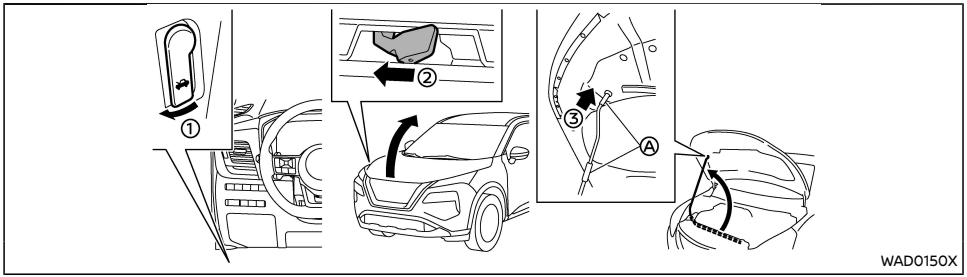
The remote engine start will not operate if any of the following conditions are present:

- The ignition switch is placed in the "ON" position.
- The hood is not securely closed.
- The hazard indicator flashers are on.
- The engine is still running. The engine must be completely stopped. This is not applicable when extending engine run time.
- The remote engine start button is not pushed and held for at least 2 seconds.
- The remote engine start button is not pushed and held within 5 seconds of pushing the "LOCK" button.
- The doors are not closed and locked. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- The back door is open. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- The Key System Fault warning message remains on in the vehicle information display.
- The theft alarm sounds due to illegal entry into the vehicle. (The hazard indicator flashers blink twice to indicate the function is not operated.)
- Two remote engine starts, or a single remote engine start with an extension, have already been used. (To use the remote engine start function again, the vehicle needs to be driven at speeds of 7 km/h (4 MPH).)
- The shift position is not in the "P" (Park) position.

HOOD

WARNING:

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **Never open the hood if steam or smoke is coming from the engine compartment to avoid injury.**



1. Pull the hood lock release handle ① located below the driver's side instrument panel; the hood springs up slightly.
2. Push the lever ② underneath the front of the hood sideways as illustrated with your fingertips.
3. Raise the hood.
4. Remove the support rod and insert it into the slot ③.

Hold the coated parts Ⓐ when removing or resetting the support rod. Avoid direct contact with the metal parts, as they may be hot immediately after the engine has been stopped.

When closing the hood:

1. While supporting the hood, return the support rod to its original position.
2. Slowly lower the hood to about 20 to 30 cm (8 to 12 in) above the hood lock, then let it drop.
3. Make sure it is securely latched.

BACK DOOR

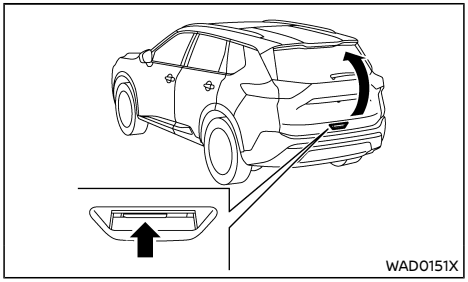
WARNING:

- **Always be sure the back door has been closed securely to prevent it from opening while driving.**
- **Do not drive with the back door open. This could allow dangerous exhaust gases to be drawn into the vehicle. For additional information, refer to "Exhaust gas (carbon monoxide)" (P.5-6).**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Always be sure that hands and feet are clear of the door frame to avoid injury while closing the back door.**

CAUTION:

Do not use accessory carriers that attach to the back door. Doing so will cause damage to the vehicle.

OPERATING MANUAL BACK DOOR (if equipped)



To open the back door, unlock it. Pull up the back door to open.

The back door can be unlocked by:

- pushing the UNLOCK button on the Intelligent Key.
- pushing the back door request switch (if equipped).
- touching the capacitive unlock sensor (if equipped).

To close the back door, pull down until it securely locks.

OPERATING POWER BACK DOOR (if equipped)

To operate the power back door, the vehicle must be in the "P" (Park) position.

The power back door will not operate if the battery voltage is low.

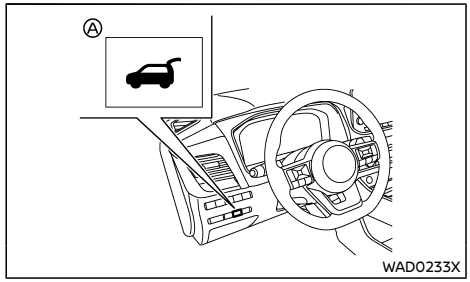
If the back door is open approximately 150 mm (5.9 in) or less from the fully closed position, power back door cannot be performed by any switch operations. To operate the power back door, manually close the back door.

The power back door operation can be activated or deactivated in the vehicle information display. (See "Vehicle Settings" (P.2-25).)

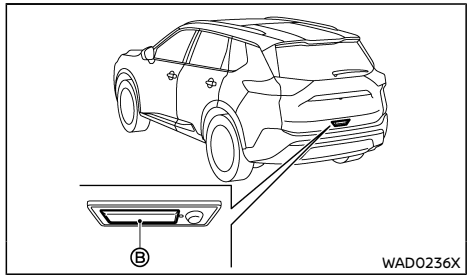
NOTE:

- **For models with motion-activated back door: When washing, waxing or maintaining your vehicle, placing or replacing the body cover, splashing water to the area around the kick motion sensor, or using the tow bar (if equipped), turn off the power back door.**
- **If the power open or close operation is performed consecutively, the safety mode activates and the operation cannot be performed for a certain period of time. In this case, wait for a while and then perform the operation.**

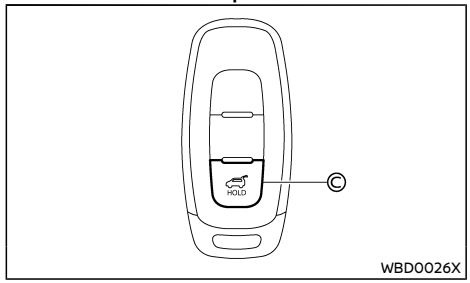
Power open (using switches)



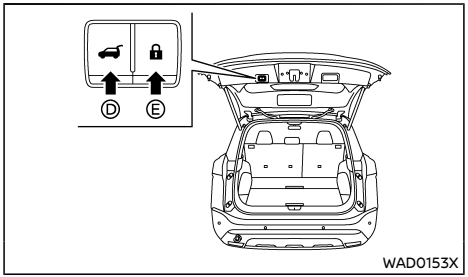
Power back door switch — Instrument panel



Back door opener switch



Power back door button - Key (example)



Power back door close and lock switches — Back door

When the back door is fully closed, the back door will fully open automatically by:

- pushing the power back door switch Ⓐ on the instrument panel for more than 1 second
- pushing the back door opener switch Ⓑ
- pushing the power back door button Ⓒ on the key for more than 1 second

The outside chime sounds when the back door starts opening.

NOTE:

The back door can be opened by the power back door switch Ⓐ or the power back door button Ⓒ even if the back door is locked. The back door can be unlocked and opened independently of the other doors, even when they are locked. The back door must be unlocked (or the Intelligent Key must be within range) to open with the back door opener switch Ⓑ.

Power close (using switches)

When the back door is fully opened, the back door will fully close automatically by:

- pushing the power back door switch Ⓐ on the instrument panel for more than 1 second
- pushing the power back door button Ⓒ on the key for more than 1 second
- pushing the power back door close switch Ⓓ on the lower part of the back door

The outside chime sounds when the back door starts closing.

Power close and lock

When the back door is fully opened and the Intelligent Key is carried with you near the back door, all the doors and the back door will lock and the back door will fully close automatically by pushing the power back door lock switch Ⓔ on the lower part of the back door.

The outside chime sounds when the back door starts closing.

Stop and reverse function (if equipped)

The power back door will stop immediately if one of the following actions is performed during power open or close.

- pushing the power back door switch Ⓐ
- pushing the back door opener switch Ⓑ
- pushing the power back door close switch Ⓓ on the lower part of the back door
- pushing the power back door button Ⓒ on the key

And then the power back door will move in the reverse direction if one of the above actions is performed again.

The outside chime sounds when the back door starts to reverse.

Auto reverse function

The auto-reverse function enables the back door to automatically reverse when something is caught in the back door as it is opening or closing. When the control unit detects an obstacle, the back door will reverse and stop.

If a second obstacle is detected, the back door motion will stop.

A pinch sensor is mounted on each side of the back door. If an obstacle is detected by the pinch sensor during power close, the back door will reverse and stop.

NOTE:

If the pinch sensor is damaged or removed, the power close function will not operate.

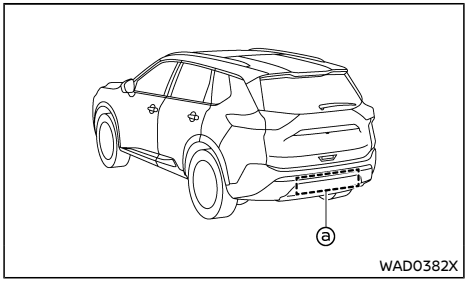
WARNING:

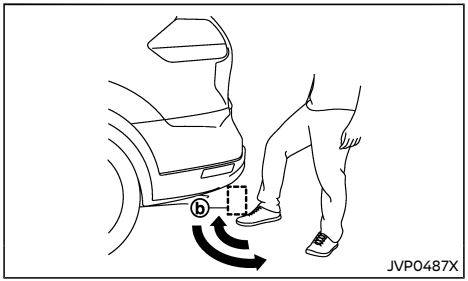
There is a small distance immediately before the closed position that cannot be detected. Make sure that all passengers keep their hands, etc., clear from the back door opening before closing the back door.

Manual mode

If power operation is not available, the back door can be operated manually. Power operation may not be available if the battery voltage is low or if the back door is open approximately 150 mm (5.9 in) or less from the fully closed position. When the power back door is turned off, the back door can be opened manually by pushing the back door opener switch. If the power back door opener switch is pushed during power open or close, the power operation will be canceled and the back door can be operated manually. This will allow normal power operation functions to resume.

MOTION-ACTIVATED BACK DOOR (if equipped)





The back door can be operated using a quick kicking motion under the center of the rear bumper.

The kick motion sensor ⓐ is located on the back of the rear bumper. when you move your foot under and then away from the operating range ⓑ similar to a kicking motion, while carrying the Intelligent Key with you, the back door will open or close automatically.

Proper operation technique

- While at the rear of the vehicle, begin making a quick forward kicking motion.
- Raise your foot straight under the center of the rear bumper then immediately return your foot to the ground in a continuous motion.
- You do not need to hold your foot under the bumper or move it side to side. Immediately return your foot to the ground.
- The kicking motion should be straight, smooth and consistent.
- After your kick motion is complete, step back and allow the back door to open/close.
- Three beeps will sound and the back door will begin moving within 2 seconds after the kick.

WARNING:

- **Prevent unintentional back door opening/closing. There may be conditions when opening/closing the back door is not desired. Keep the Intelligent Key out of range of the back door, (2 m (7 ft) or more) or inside the vehicle, when washing or working around the back of the vehicle, or when using the tow bar (if equipped).**
- **Do not perform a kick motion near the tow bar, tongue or hitch receiver (if equipped). Doing so may cause injury.**

NOTE:

- **The kick motion sensor may not function under the following conditions:**
  - **When operating near a location where strong radio waves are transmitted, such as a TV tower, power station or broadcasting station.**
  - **When the vehicle is parked near a parking meter.**
- **The power back door may not operate when your foot remains in the operating range ⓑ.**

CAUTION:

- **When the Intelligent Key is carried with you near the back door, even someone, who does not carry the Intelligent Key, may be able to open or close the back door with a kick motion.**
- **Do not perform a kick motion near the exhaust system components while they are hot. You may severely burn yourself.**
- **Do not perform a kick motion on an unstable place (for example, on a slope or a muddy ground, etc.).**

Power open or close function

The back door will fully open automatically using the kick motion sensor.

1. Carry the Intelligent Key.
2. Move your foot under and away from the rear bumper similarly to a kicking motion within the operation range of the kick motion sensor.
3. The back door will automatically open or close.

Stop and reverse function

The power back door will stop immediately if a kick motion is performed during power open or close. The back door can be stopped even if you do not carry the Intelligent Key.

And then the power back door will move in the reverse direction if a kick motion is performed again. The power back door can be reversed when you carry the Intelligent Key.

GARAGE MODE SYSTEM (if equipped)

The back door can be set to open to a specific height by performing the following:

1. Open the back door.
2. Pull the back door down to the desired position and hold the back door (the back door will have some resistance when being manually adjusted).
3. While holding the back door in position, press and hold the power back door close switch Ⓓ located on the back door for approximately 3 seconds or until 2 beeps are heard.

The back door will open to the selected position setting. To change the position of the back door, repeat steps 1-3 for setting the position of the back door.

CAUTION:

Do not set the height of the back door below approximately 1/3 of the way to the floor using garage mode. Even if you set the height below approximately 1/3 of the way to the floor, the height will automatically be set to approximately 1/3 of the way to the floor.

AUTO CLOSURE (if equipped)

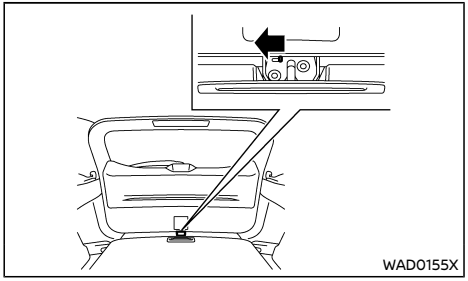
When the back door reaches the secondary position, the closure motor engages and pulls the back door to its primary latch position.

Do not apply excessive force when the auto closure is operating. Excessive force applied may cause the mechanism to malfunction.

CAUTION:

- **The back door will automatically close from the secondary position. To avoid pinching, keep hands and fingers away from back door opening.**
- **Do not let children operate the back door.**

BACK DOOR RELEASE LEVER



If the back door cannot be opened due to a discharged battery, follow these steps.

1. Fold the rear seats down. (See “Seats” (P.1-2).)
2. Insert a suitable tool in the access opening. Move the release lever to the left. The back door will be unlatched.
3. Push the back door up to open.

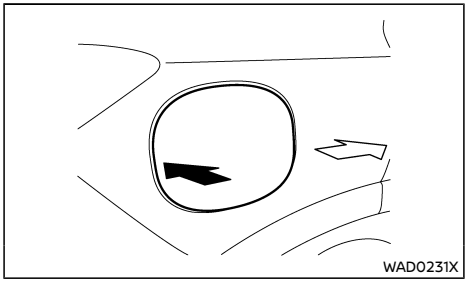
Contact a NISSAN dealer as soon as possible for repair.

FUEL-FILLER LID

CAUTION:

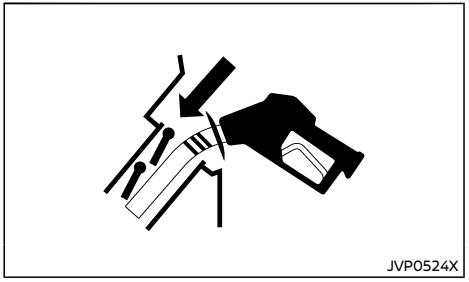
- **Avoid applying direct water pressure, such as high-pressured sprayer, on or around the fuel-filler lid.**
- **Be sure to close the fuel-filler lid before using an automatic car wash or a high-pressured car wash.**
- **Never use fuel additives. Additives may cause damage to the engine (for Europe).**

OPENING THE FUEL-FILLER LID



To open the fuel-filler lid, push the middle left side of the lid.

HOW TO REFUEL



The fuel tank is not equipped with a fuel-filler cap. After opening the fuel-filler lid, insert the fuel pump nozzle directly into the fuel-filler opening. When the fuel pump nozzle is pulled out, the fuel-filler opening will be sealed.

To refuel:

Be sure to insert the fuel pump nozzle into the fuel-filler opening at one motion and as far as it will go before fueling.

Never move the nozzle during refueling.

Pull out the nozzle approximately 5 seconds after the fuel pump nozzle shuts off automatically (initial shut-off).

Close the fuel-filler lid after refueling.

If you need to refuel from a portable fuel container, use the funnel supplied with your vehicle. (See "When refueling from a portable fuel container" (P.3-28).)

CAUTION:

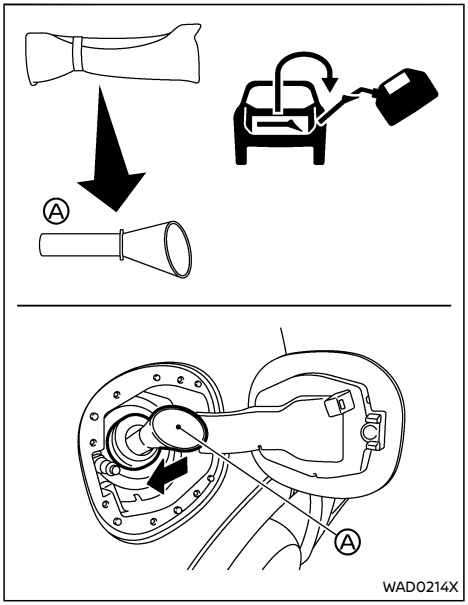
- **Do not attempt to open the flaps on the fuel-filler opening using any tool other than the fuel pump nozzle.**
- **This fuel-filler opening is only conformable to normal fuel pump nozzles at gas stations. Using a nozzle with a small diameter may damage the opening and the fuel system.**
- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**

WARNING:

- **Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.**
- **Never pour fuel into the throttle body to attempt to start your vehicle.**
- **Do not fill a portable fuel container in the vehicle. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle. To reduce the risk of serious injury or death when filling portable fuel containers:**
  - **— Always place the container on the ground when filling.**
  - **— Do not use electronic devices when filling.**
  - **— Keep the pump nozzle in contact with the container while you are filling it.**

— Use only approved portable fuel containers for flammable liquid.

WHEN REFUELING FROM A PORTABLE FUEL CONTAINER



If you need to refuel from a portable fuel container, use the funnel Ⓐ stored in the tool bag (located under the luggage board).

Be sure to insert the funnel into the fuel-filler opening slowly and fully. Insert the nozzle of the portable fuel container into the opening along the funnel and fill the fuel tank.

After refueling, remove the funnel from the fuel-filler opening. Wipe the funnel clean and return it to the tool bag.

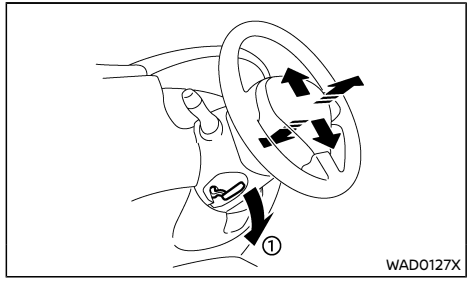
CAUTION:

- **Do not insert the nozzle of the portable fuel container directly into the fuel-filler opening. Doing so may damage the opening and the fuel system.**
- **Use only the funnel provided with your vehicle. Otherwise, the fuel-filler opening and the fuel system may be damaged.**

WARNING:

- **Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.**
- **Do not adjust the steering wheel any closer to you than is necessary for proper steering operation and comfort. The driver's air bag inflates with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel. Always use the seat belts.**

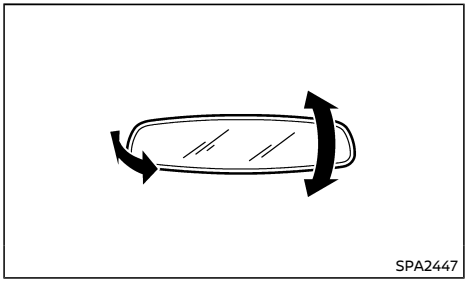
TILT AND TELESCOPIC OPERATION



Pull the lock lever ① down and adjust the steering wheel up, down, forward or rearward to the desired position. Push the lock lever up securely to lock the steering wheel in place.

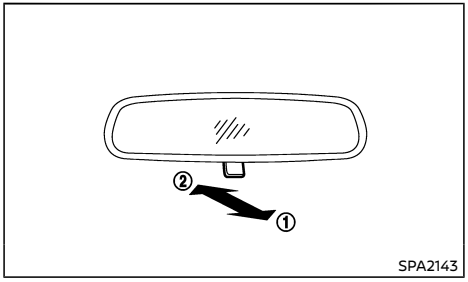
MIRRORS

INSIDE REARVIEW MIRROR


SPA2447

Adjust the angle of the inside rearview mirror to the desired position.

Manual anti-glare type (if equipped)



SPA2143

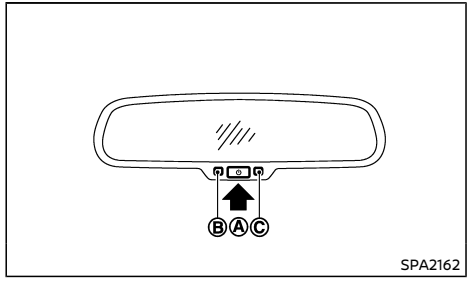
The night position ① will reduce glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

WARNING:

Use the night position only when necessary, because it reduces rear view clarity.

Automatic anti-glare type (if equipped)



SPA2162

The inside rearview mirror is designed so that it automatically changes reflection according to the intensity of the headlights of the following vehicle.

The anti-glare system will be automatically turned on when the ignition switch is placed in the "ON" position.

When the anti-glare system is turned on, the indicator light Ⓑ will illuminate and excessive glare from the headlights of the vehicle behind you will be reduced.

Push the ⏻ switch Ⓐ to make the inside rearview mirror operate normally. The indicator light will turn off. Push the ⏻ switch again to turn the system on.

Do not hang any objects on the mirror or apply glass cleaner. Doing so will reduce the sensitivity of the sensor Ⓒ, resulting in improper operation.

Intelligent Rear View Mirror (if equipped)

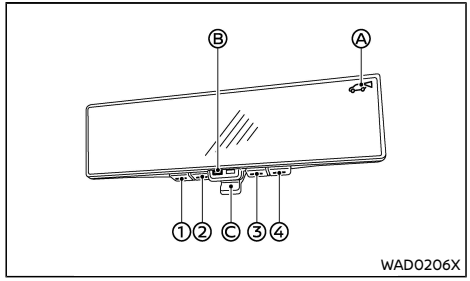
WARNING:

Failure to follow the warnings and instructions for proper use of the Intelligent Rear View Mirror could result in serious injury or death.

- **The Intelligent Rear View Mirror is a convenience feature but it is not a substitute for proper vehicle operation. The system has areas where objects cannot be viewed. Check the blind spot of the Intelligent Rear View Mirror before vehicle operation. The driver is always responsible for safe driving.**
- **Do not disassemble or modify the Intelligent Rear View Mirror, the camera unit or wirings. If you do, it may result in accidents or fire. In case you notice smoke or smell coming from the Intelligent Rear View Mirror, stop using the system immediately. See a NISSAN dealer for servicing.**
- **Do not operate the Intelligent Rear View Mirror while driving. Doing so can be a distraction and it could lose control of your vehicle and cause an accident or serious injury.**
- **Do not gaze into the Intelligent Rear View Mirror display during driving. It may cause a distraction and it could lose control of your vehicle and cause an accident or serious injury. Gazing into the display screen during driving also can be a cause of carsick for passengers.**
- **Do not put a cigarette or flames to the Intelligent Rear View Mirror, the camera unit or wirings. It may cause a fire.**

- **Be sure to adjust the Intelligent Rear View Mirror before driving. Switch the system to the conventional rearview mirror mode and be properly seated on the driver's seat. Then adjust the rearview mirror so as to see the rear window properly. Driving without adjusting the rearview mirror may cause difficulty in watching the display at Intelligent Rear View Mirror mode (camera view mode) due to the reflection from the surface of the mirror.**
- **If the indicator light of the mirror turns off at the Intelligent Rear View Mirror mode (camera view mode), immediately switch the system to the conventional rearview mirror mode. If the indicator light does not illuminate after switching to the Intelligent Rear View Mirror mode again, the system may malfunction. Have the system checked by a NISSAN dealer.**
- **If the Intelligent Rear View Mirror malfunctions, immediately switch the system to the conventional rearview mirror mode. Have the system checked by a NISSAN dealer.**
- **When strong light (for example, sunlight or high beams from following vehicles) enters the camera, a light beam or a glaring light may appear on the display screen of the Intelligent Rear View Mirror. In that case, switch the system to the conventional rearview mirror mode appropriately.**
- **If dirt, rain or snow accumulates on the exterior glass surface covering the camera, the Intelligent Rear View Mirror may not display objects clearly. Use of the rear window wiper/washer may improve visibility, but if not, switch the Intelligent Rear View Mirror to the conventional rearview mirror mode until a time the glass covering the camera can be cleaned.**

Components:



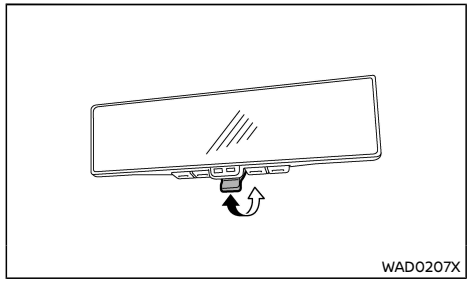
WAD0206X

① MENU button
② Second button
③ Third button
④ Fourth button
Ⓐ Indicator
Ⓑ Indicator light
Ⓒ Mode select lever

Intelligent Rear View Mirror provides a clear rearview from a camera located on the rear of the vehicle. Intelligent Rear View Mirror has two modes: conventional rearview mirror mode and Intelligent Rear View Mirror mode (camera view mode). You can switch these two modes by the mode select lever Ⓒ.

When the Intelligent Rear View Mirror mode is selected, the indicator Ⓐ is displayed, and the indicator light Ⓑ illuminates. (If a malfunction occurs in the Intelligent Rear View Mirror, the indicator Ⓐ will turn off or not appear when the Intelligent Rear View Mirror mode is selected.)

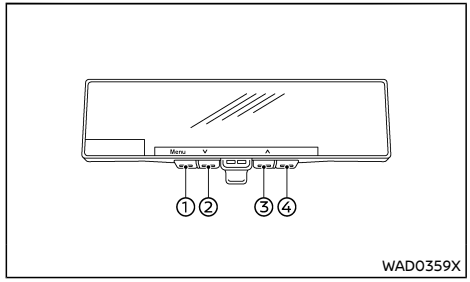
How to change the mode:


WAD0207X

The mode can be switched when the ignition switch is in the "ON" position.

- Pull the mode select lever to switch to the Intelligent Rear View Mirror mode (camera view mode).
- Push the mode select lever to switch to the conventional rearview mirror mode.

How to make settings of Intelligent Rear View Mirror (MENU button operation):



WAD0359X

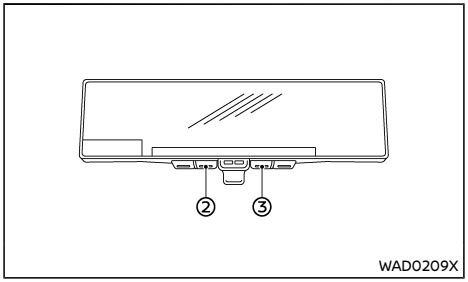
You can choose display settings of the Intelligent Rear View Mirror such as brightness, camera angle and textual indication ON or OFF.

When the Intelligent Rear View Mirror mode (camera view mode) is on, push the MENU button ① to display the setting menu. The following items can be adjusted:

- Brightness
- Down/Up
- Left/Right
- Rotation
- Indication
- Language
- Switch Backlight
- License

Push ② or ③ button to select an item and then push the ④ button.

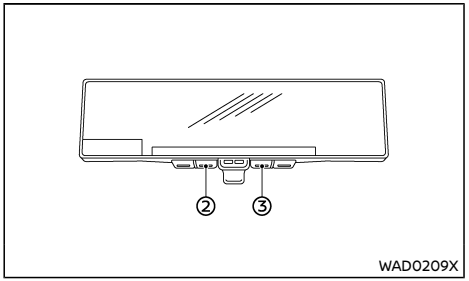
Brightness



The brightness of the display screen can be adjusted.

- Push the button ② to dim the screen.
- Push the button ③ to brighten the screen.

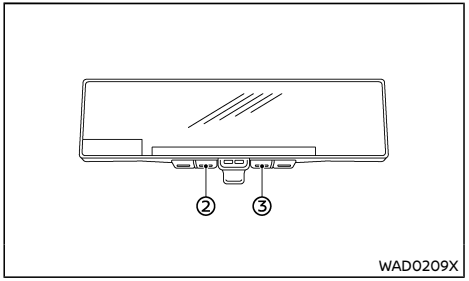
Down/Up



The vertical camera angle of the display screen can be adjusted.

- Push the button ② to down the camera angle.
- Push the button ③ to up the camera angle.

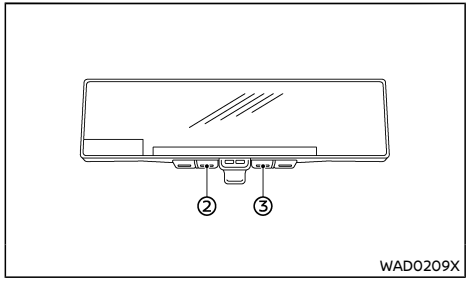
Left/Right



The horizontal camera angle of the display screen can be adjusted.

- Push the button ② to move the camera angle to the left.
- Push the button ③ to move the camera angle to the right.

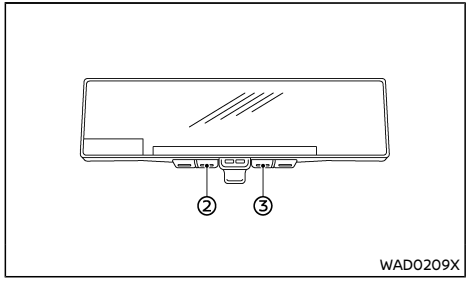
Rotation



The camera angle of the display screen can be rotated.

- Push the button ② to rotate the camera angle to the left.
- Push the button ③ to rotate the camera angle to the right.

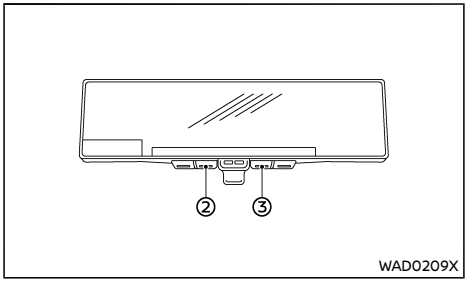
Indication



The textual indication can be turned on or off on the Intelligent Rear View Mirror display screen.

- Push the button ② to disable the textual indication on the display screen.
- Push the button ③ to enable the textual indication on the display screen.

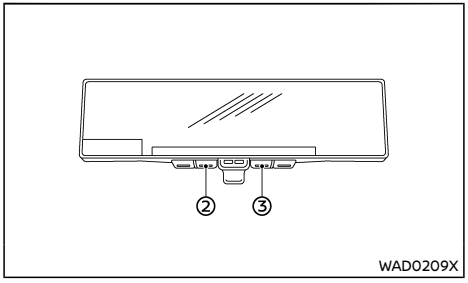
Language



You can select the language of the textual indication on the Intelligent Rear View Mirror display screen.

Select the language by using the ② or ③ button. The language setting will be retained even if the engine is restarted.

Switch Backlight



The illumination of the buttons can be turned on or off.

- Push the button ② to turn off the illumination.
- Push the button ③ to turn on the illumination.

License

The license information is displayed.

Intelligent Rear View Mirror system precautions:

NOTE:

- **Long-term use of this system in stopping engine may cause battery to be discharged.**
- **Do not attach an antenna of wireless device near the Intelligent Rear View Mirror. Electric wave from wireless device may cause disturbed image in the Intelligent Rear View Mirror.**
- **Do not push the buttons excessively or operating the lever roughly may cause a system failure or the Intelligent Rear View Mirror itself to drop.**
- **Never turn the body of Intelligent Rear View Mirror horizontally by 20° or more, or vertically by 30° or more. It may damage the Intelligent Rear View Mirror.**
- **Do not apply strong shocks to the body of Intelligent Rear View Mirror. It may cause a system failure.**
- **Do not apply heavy load to the camera and camera-cover on the rear of the vehicle. It may cause the camera to be removed or may cause a system failure.**
- **If it is difficult to see the Intelligent Rear View Mirror display screen because of a strong external light, switch the mode to the conventional rearview mirror mode for better use.**
- **When LED headlights are viewed on the Intelligent Rear View Mirror display, the images may flicker. This is normal.**
- **Due to diffused reflection from external environment, images on the screen may flicker. This is not a malfunction.**
- **A quick movement of a thing may not be able to display on the camera view screen. This is not a malfunction.**
- **Turn on the headlights at twilight or in a tunnel, etc. When headlights are turned on, the display and the camera systems automatically switched to the night mode, which can prevent dazzling.**
- **The Intelligent Rear View Mirror mode (camera view mode) display is different from the conventional rearview mirror. Objects in the display may differ from actual distance. Do not solely rely on the Intelligent Rear View Mirror. Always rely on your own operation to avoid accidents.**
- **Immediately after the Intelligent Rear View Mirror is switched from one mode to another, you may have difficulty in focusing on the image in the mirror/display screen with your eyes. Be cautious using the Intelligent Rear View Mirror until your eyes get accustomed to the selected mode. If it is necessary to correct eye focusing, the use of multifocal glasses, etc. is recommended.**
- **It may take time for you to focus on the camera view display depending on your condition.**
- **If the brightness of the camera view display is adjusted to excessive bright level, it may cause an eyestrain in the driving. Adjust the brightness properly.**

- **Use the rear window wiper when it rains. If the camera view image is still unclear when the rear window wiper is in operation, check the deterioration of the rear window wiper blade.**
- **When using the rear window wiper, images on the screen may flicker. This is not a malfunction.**
- **Defog the rear window with defogger when rear window is fogged. Use the conventional rearview mirror mode until the rear window is fully defogged.**
- **The display of the Intelligent Rear View Mirror may become hot. This is not a malfunction.**
- **The color of an object in the distance or in the dark may be difficult to be recognized. This is not a malfunction.**
- **When the temperature is high, the brightness may be decreased or image may not be displayed on the camera view display. This is not a malfunction.**
- **When the temperature is low, the image may be distorted on the camera view display. This is not a malfunction.**

System maintenance (Intelligent Rear View Mirror):

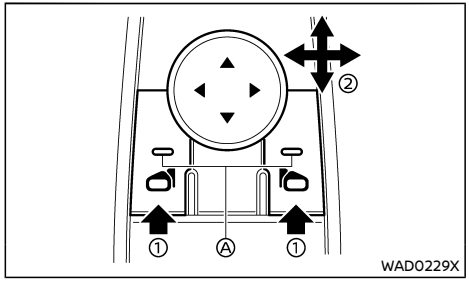
- Always keep the mirror and camera area of the rear window clean.
- Clean the mirror and the camera lens with a dry soft cloth.
- When cleaning the camera area of the rear window, use a soft cloth dampened with water and a few neutral detergent. And after that, dry it up with dry soft cloth.
- If the image on the Intelligent Rear View Mirror display screen is still unclear even after cleaning the camera area of the rear window, an oil film may be adhering to the rear window glass. Clean the rear window glass with an oil film remover.
- Never use alcohol, benzine, thinner, or any similar material to clean the mirror or camera lens. It will cause a discoloration, deterioration or a system malfunction.
- Do not cover the front of the mirror. It may interfere with brightness adjustment or switching images on the camera view display.
- Do not attach a sticker (including transparent material) on the camera area of the rear window.

OUTSIDE REARVIEW MIRRORS

WARNING:

- **Never touch the outside rearview mirrors while they are in motion. Doing so may pinch your fingers or damage the mirror.**
- **Never drive the vehicle with the outside rearview mirrors folded. This reduces rear view visibility and may lead to an accident.**
- **Objects viewed in the outside mirror are closer than they appear (if equipped).**
- **The picture dimensions and distance in the outside mirrors are not real.**

Adjusting



The outside rearview mirror control switch is located on the driver's armrest.

The outside rearview mirror will operate when the ignition switch is in the "ON" position.

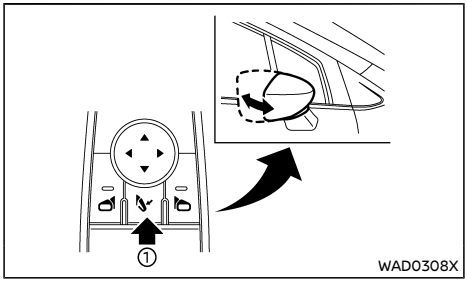
Push either the right or left switch to select the right or left side mirror ① (the indicator light Ⓐ on the selected mirror switch illuminates), then adjust ② using the control switch.

Defogging (if equipped)

The outside rearview mirrors will be heated when the rear window defogger switch is operated. (See "Defogger switch" (P.2-60).)

Folding

Remote control type:



The outside rearview mirror remote control operates when the ignition switch is in the “ON” position.

The outside rearview mirrors automatically fold when the outside rearview mirror folding switch ① is pushed in. To unfold, push the switch again.

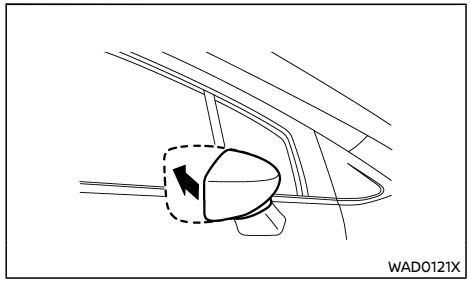
CAUTION:

- **Continuously performing the fold/unfold operation of the outside rearview mirror may cause the switch to stop the operation.**
- **Do not touch the mirrors while they are moving. Your hand may be pinched, and the mirror may malfunction.**
- **Do not drive with the mirrors stored. You will be unable to see behind the vehicle.**
- **If the mirrors were folded or unfolded by hand, there is a chance that the mirror will move forward or backward during driving. If the mirrors were folded or unfolded by hand, be sure to adjust them again electrically before driving.**

Automatic fold (if equipped):

The outside rearview mirrors automatically fold when the doors are locked with the Intelligent Key, the lock sensors (if equipped) or the request switch (if equipped). The mirrors unfold when the doors are unlocked with the Intelligent Key, the capacitive unlock sensors (if equipped) or the request switch (if equipped), or when the ignition switch is placed in the “ON” position.

Manual control type:



Example

Fold the outside mirror by pushing it toward the rear of the vehicle.

Reverse tilt-down feature (if equipped)

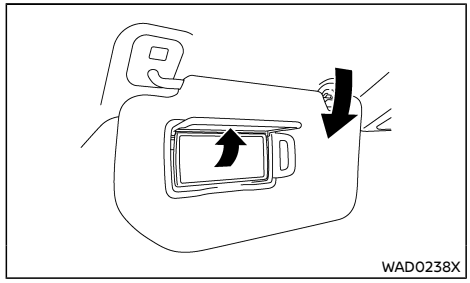
When backing up the vehicle, the outside mirror will turn downward automatically to provide better rear visibility. Depending on the model, the outside mirror on one side (selected) or both sides will move.

1. Place the ignition switch in the "ON" position.
2. Move the shift lever to the "R" (Reverse) position.
3. Choose the right or left outside mirror by operating the outside mirror control switch.
4. The outside mirror surface moves downward.

When one of the following conditions has occurred, the outside mirror surface will return to its original position.

- The shift lever is moved out of the "R" (Reverse) position.
- The vehicle speed exceeds 8 km/h (5 MPH).
- The selected outside mirror is deselected using the outside mirror control switch.
- The ignition switch is placed in the "OFF" position.
- The engine is stopped.

VANITY MIRROR

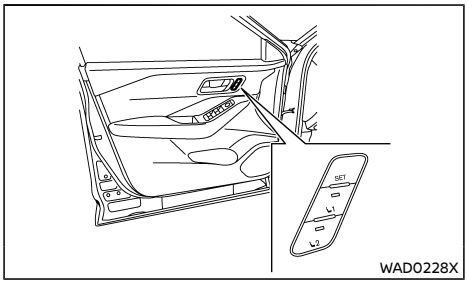


To use the vanity mirror, pull down the sun visor and pull up the cover.

MEMORY SEAT (if equipped)

The memory seat system has the following features:

- Memory storage function
- Entry/exit function



Memory switch (driver's side shown; passenger side similar)

MEMORY STORAGE FUNCTION

Two positions for the driver's seat, front passenger's seat (if equipped), and outside mirrors (if equipped) can be stored in the memory switch. Follow these procedures to use the memory system.

1. Adjust the driver's seat and outside mirrors (if equipped) to the desired positions by manually operating each adjusting switch. For additional information, refer to "Seats" (P.1-2) and "Outside rearview mirrors" (P.3-33).
2. Push the SET switch and, within 5 seconds, push the memory switch (1 or 2).
3. The indicator light for the pushed memory switch will come on and stay on for approximately 5 seconds.
4. The chime will sound if the memory has been stored.

NOTE:

If a new memory position is stored in the same memory switch, the previous memory position will be overwritten by the new stored position.

Confirming memory storage

Push the SET switch. If a memory position has not been stored in the switch (1 or 2) the indicator light for the respective switch will come ON for approximately 0.5 seconds. If a memory position has been stored in the switch (1 or 2) then the indicator light for the respective switch will stay ON for approximately 5 seconds.

Recalling switch memory positions

To recall the manually stored positions, push the memory switch (1 or 2). The driver's seat and the outside mirrors (if equipped) will move to the positions stored in the memory switch.

Linking log-in function to a stored memory position (models with navigation system)

The log-in function can be linked to a stored memory position with the following procedure.

1. Place the ignition switch in the "ON" position while carrying the Intelligent Key that was registered to the vehicle with a log-in function.

   NOTE:
   Make sure the Intelligent Key is far apart. Otherwise, the vehicle may detect the wrong Intelligent Key.
2. Adjust the position of the driver's seat and outside mirrors (if equipped). (See "Seats" (P.1-2) and "Outside rearview mirrors" (P.3-33).)
3. Place the ignition switch in the "OFF" position.

The next time you log in (selecting the user on the display) after placing the ignition switch in the "ON" position while carrying the Intelligent Key, the system will automatically adjust to the memorized driving position. (See the separate NissanConnect Owner's Manual.)

Linking an Intelligent Key to a stored memory position (models without navigation system)

Each Intelligent Key can be linked to a stored memory position (memory switch 1 or 2) with the following procedure.

1. Follow steps 1-3 in the "Memory storage function" (P.3-35) for storing the memory position.
2. The indicator light for the pushed memory switch will come on. While the indicator light is on for 5 seconds, press the button and the button on the Intelligent Key in succession. The indicator light of the linked memory switch will blink. After the indicator light goes off, the Intelligent Key is linked to that memory setting.

Once it is linked, when ignition switch is placed in the "OFF" position, pressing the button on the Intelligent Key will move the driver's seat and outside mirrors (if equipped) to the linked memory switch position.

NOTE:

If a new memory position is stored in the linked memory switch, then the Intelligent Key will link the new position and overwrites the previous position.

ENTRY/EXIT FUNCTION

This system is designed so that the driver's seat will automatically move when the shift position is in the "P" (Park) position. This allows the driver to get into and out of the driver's seat more easily.

The driver's seat will slide backward:

- When the driver's door is opened with the ignition switch placed in the "OFF" position.
- When the ignition switch is changed from "ON" to "OFF" with the driver's door open.

The driver's seat will return to the previous position:

- When the ignition switch is placed in the "ON" position while the shift position is in the "P" (Park) position.

The entry/exit function can be canceled through "Vehicle Setting" in the vehicle information display by performing the following:

- Switch the "Exit Seat Slide" from ON to OFF. For additional information, refer to "Vehicle Settings" (P.2-25).

SYSTEM OPERATION

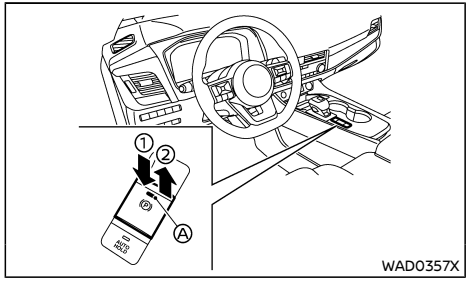
The memory seat system will not work or will stop operating under the following conditions:

- When the vehicle speed is above 7 km/h (4 MPH).
- When any of the memory switches are pushed while the memory seat system is operating.
- When the switch for the driver's seat is pushed while the memory seat system is operating.
- When the seat has already been moved to the memorized position.
- When no seat position is stored in the memory switch.
- When the shift lever is moved from "P" (Park) to any other position.

PARKING BRAKE

WARNING:

- **Never drive the vehicle with the parking brake applied. The brake will overheat and fail to operate and will lead to an accident.**
- **Never release the parking brake from outside the vehicle. If the vehicle moves, it will be impossible to push the foot brake pedal and will lead to an accident.**
- **Never use the shift lever in place of the parking brake. When parking, be sure the parking brake is fully applied.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**



① Release
② Apply

Ⓐ Indicator light

The electronic parking brake can be applied or released automatically or by operating the parking brake switch.

AUTOMATIC OPERATION

The electronic parking brake is automatically released as soon as the vehicle starts while the accelerator pedal is depressed under the following conditions.

- While the engine is running.
- When the shift position is in the "D" (Drive) or "R" (Reverse) position.
- When the driver's door is closed.

The electronic parking brake is automatically released within 5 seconds after the shift position is placed in the "D" (Drive) or "R" (Reverse) position even if the driver's door is opened. Be sure to close the door before starting the vehicle.

WARNING:

- **When Automatic brake hold function is activated, the electronic parking brake will not be automatically applied when the engine is stopped without using the ignition switch (for example, by engine stalling).**

  Without the vehicle stationary, the electronic parking brake will not be automatically applied even if the engine is turned off with the ignition switch.
- **Before leaving the vehicle, place the shift position in the "P" (Park) position and check that the electronic parking brake warning light is illuminated to confirm that the electronic parking brake is applied. The electronic parking brake warning light will remain on for a period of time after the driver's door is locked.**

CAUTION:

When parking in an area where the outside temperature is below 0°C (32°F), the electronic parking brake, if applied, may freeze in place and may be difficult to release.

For safe parking, it is recommended that you place the shift position in the "P" (Park) position and securely block the wheels.

NOTE:

- **To keep the electronic parking brake released after the engine is turned off, place the ignition switch in the "OFF" position, depress the brake pedal and push down the parking brake switch before opening the driver's door.**
- **If a malfunction occurs in the electronic parking brake system (for example, due to battery discharge), it is recommended to contact a NISSAN dealer.**
- **Under the following conditions, the electronic parking brake will automatically be applied and the braking force of Automatic brake hold will be released.**
  - **The braking force is applied by Automatic brake hold function for 3 minutes or longer.**
  - **The vehicle is in the "P" (Park) position.**
  - **Electronic parking brake is applied manually.**
  - **The driver's seat belt is unfastened.**
  - **The driver's door is opened.**
  - **The ignition switch is placed in the "OFF" position.**
  - **A malfunction occurs in Automatic brake hold function.**
- **Make sure that the electronic parking brake system warning light is OFF before starting the vehicle.**

MANUAL OPERATION

To apply: When the vehicle is stopped, pull the parking brake switch ② up. (The electronic parking brake will apply even if the ignition switch is placed in the "OFF" position.) The indicator light Ⓐ on the switch and the electronic parking brake warning light (P) (red) will illuminate.

To release: With the ignition switch in the "ON" position, depress the brake pedal and push the parking brake switch down ①. The indicator light Ⓐ and the electronic parking brake warning light (red) will turn off.

Before driving, check that the electronic parking brake warning light (red) turns off. For additional information, see "Warning lights, indicator lights and audible reminders" (P.2-13).

NOTE:

- **While the electronic parking brake is applied or released, an operating sound is heard from the lower side of the rear seat. This is normal and does not indicate a malfunction.**
- **When the electronic parking brake is frequently applied and released in a short period of time, the electronic parking brake system warning light may blink and the electronic parking brake may not operate in order to prevent the electronic parking brake system from overheating. If this occurs, operate the parking brake switch again after waiting approximately 1 minute.**

- **If the electronic parking brake must be applied while driving in an emergency, pull up and hold the parking brake switch. When you release the parking brake switch, the electronic parking brake will be released.**
- **While pulling up the parking brake switch during driving, the electronic parking brake is applied and a chime sounds. The electronic parking brake warning light (red) and the indicator light on the parking brake switch illuminate. This does not indicate a malfunction. The electronic parking brake warning light (red) and the indicator light on the parking brake switch will turn off when the electronic parking brake is released.**
- **When pulling the parking brake switch up with the ignition switch in the "OFF" position, the indicator light on the parking brake switch will continue to illuminate for a short period of time.**

When towing a trailer (for Australia, New Zealand, South Africa and Europe)

Depending on the weight of the vehicle and trailer and the steepness of the slope, there may be a tendency for the vehicle to move backwards when starting from a standstill. When this occurs, you can use the parking brake switch in the same way as a conventional lever type parking brake.

Before starting on sloping roads when towing a trailer, be sure to read the following to prevent the vehicle from moving backward unintentionally.

- Release the parking brake switch as soon as the engine is delivering enough torque to the wheels.

AUTOMATIC BRAKE HOLD

Automatic brake hold function maintains the braking force without the driver having to depress the brake pedal when the vehicle is stopped at a traffic light or intersection. As soon as the driver depresses the accelerator pedal again, Automatic brake hold function is deactivated and the braking force is released. The operating status of Automatic brake hold can be displayed.

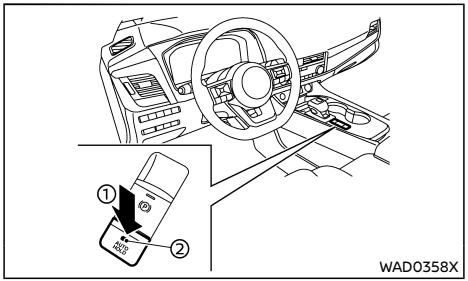
WARNING:

- **Automatic brake hold function is not designed to hold the vehicle on a steep hill or slippery road. Never use Automatic brake hold function when the vehicle is stopped on a steep hill or slippery road. Failure to do so may cause the vehicle to move.**
- **Warnings may appear to request that the driver retake control by depressing the brake pedal.**
- **When Automatic brake hold function is activated but fails to maintain the vehicle at a standstill, depress the brake pedal to stop the vehicle. If the vehicle unexpectedly moves due to outside conditions, the chime may sound and warnings may appear.**
- **Be sure to deactivate Automatic brake hold function when using a drive-thru car wash or towing your vehicle.**
- **Make sure the vehicle is in the "P" (Park) position and apply the electronic parking brake when parking your vehicle, riding on or off the vehicle, or loading or unloading luggage. Failure to do so could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.**
- **If any of the following conditions occur, Automatic brake hold function may not function. Have the system checked promptly. It is recommended that you visit a NISSAN dealer for this service.**
  - **— A warning message appears.**
  - **— The indicator light on Automatic brake hold switch does not illuminate when the switch is pushed.**

  Failure to operate the vehicle in accordance with these conditions could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.
- **Automatic brake hold function will not be activated if the slip indicator light, electronic parking brake warning light, electronic parking brake system warning light, or master warning light illuminates and the chassis control warning message appears.**
- **To maintain the braking force to keep the vehicle to a standstill, a noise may be heard. This is not a malfunction.**
- **Automatic brake hold function is operated by applying sufficient braking force to hold the vehicle in its place, so there are cases when this hold function is maintained even if the accelerator pedal is depressed. In this situation, it is advised to depress the brake pedal first, then to turn off the Automatic brake hold switch. This will cancel the hold function.**

HOW TO ACTIVATE/DEACTIVATE AUTOMATIC BRAKE HOLD FUNCTION

How to activate Automatic brake hold function



1. With the ignition switch in the "ON" position, push the automatic brake hold switch ①. The indicator light on Automatic brake hold switch ② illuminates.
2. When Automatic brake hold function goes into standby, Automatic brake hold indicator light (white) illuminates.

To use Automatic brake hold function, the following conditions need to be met.

- The driver's seat belt is fastened.
- The electronic parking brake is released.
- The vehicle is not in the "P" (Park) position.
- The vehicle is not parked on a steep hill.

NOTE:

Automatic brake hold function retains the last state until the driver changes the option even if the ignition switch is turned off.

How to deactivate Automatic brake hold function

While Automatic brake hold function is activated, push Automatic brake hold switch to turn off Automatic brake hold indicator light and deactivate Automatic brake hold function. To deactivate Automatic brake hold function while the braking force has been maintained by Automatic brake hold function, depress the brake pedal and push Automatic brake hold switch.

WARNING:

Make sure to firmly depress and hold the brake pedal when turning off Automatic brake hold function while the braking force is applied. When Automatic brake hold function is deactivated, the braking force will be released. This could cause the vehicle to move or roll away unexpectedly.

Failure to prevent the vehicle from rolling may result in serious personal injury or property damage.

HOW TO USE AUTOMATIC BRAKE HOLD FUNCTION

To maintain braking force automatically

With Automatic brake hold function activated and Automatic brake hold indicator light (white) illuminated, depress the braking pedal to stop the vehicle, and the indicator light (green) illuminates. The braking force is automatically applied without your foot depressed on the brake pedal. While the braking force is maintained, Automatic brake hold indicator light (green) illuminates.

Automatic brake hold indicator light (green) will not illuminate if the brake pedal is not depressed with sufficient force to hold the vehicle or is released too quickly when the vehicle is stopped.

Confirm Automatic brake hold indicator light (green) is illuminated before removing your foot from the brake pedal.

To start the vehicle from a standstill

With the vehicle not in the "P" (Park) or the "N" (Neutral) position, depress the accelerator pedal while the braking force is maintained. The braking force will automatically be released to restart the vehicle. Automatic brake hold indicator light (white) illuminates and Automatic brake hold returns to standby.

Parking

When the vehicle is in the "P" (Park) position with the braking force maintained by Automatic brake hold function, the electronic parking brake will automatically be applied and the braking force of Automatic brake hold will be released. Automatic brake hold indicator light turns off. When the electronic parking brake is applied with the braking force maintained by Automatic brake hold function, the braking force of Automatic brake hold will be released. Automatic brake hold indicator light turns off.

NOTE:

- **Under the following conditions, the electronic parking brake will automatically be applied and the braking force of Automatic brake hold will be released. Automatic brake hold indicator light turns off.**
  - **The braking force is applied by Automatic brake hold function for 3 minutes or longer.**
  - **The vehicle is in the "P" (Park) position.**
  - **Electronic parking brake is applied manually.**

- **— The driver's seat belt is unfastened.**
- **— The driver's door is opened.**
- **— The ignition switch is placed in the "OFF" position.**
- **— A malfunction occurs in Automatic brake hold function.**

- **When the vehicle stops, but the braking force is not automatically applied, depress the brake pedal firmly until Automatic brake hold indicator light (green) illuminates.**
- **When the vehicle stops on a slope, depress the brake pedal firmly until Automatic brake hold indicator light (green) illuminates.**

4 Monitor, heater, air conditioner, audio and phone systems

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NISSANCONNECT OWNER'S MANUAL (if equipped)

For models with NissanConnect System, refer to NissanConnect Owner's Manual that includes the following information.

Available functions may vary depending on the models and specifications.

- Audio
- Hands-free Phone
- Apple CarPlay
- Android Auto
- NissanConnect Services
- Navigation
- Voice recognition
- Amazon Alexa
- Information and settings viewable on NissanConnect
- Settings

SAFETY PRECAUTIONS

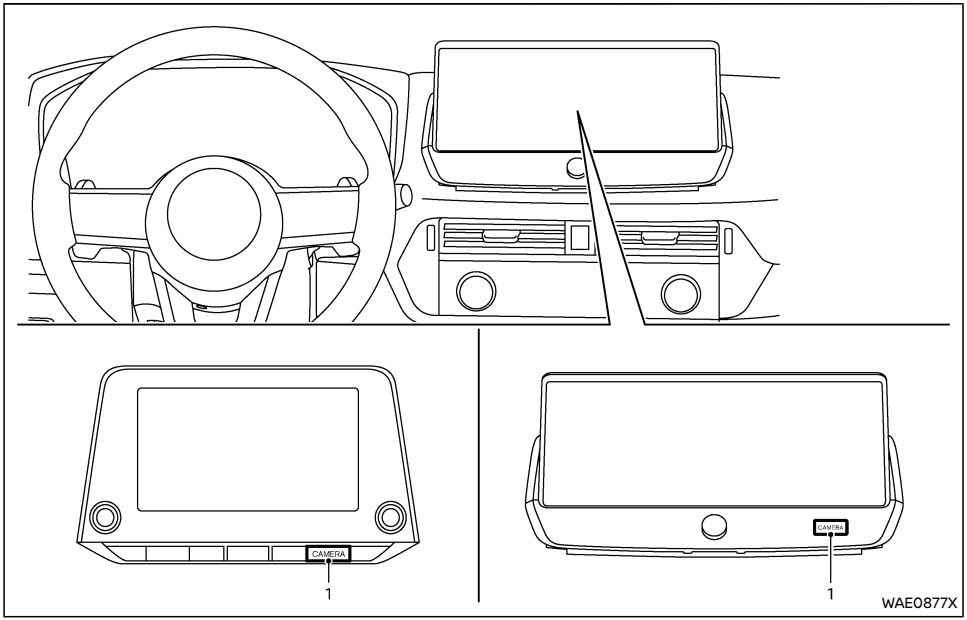
WARNING:

- **Do not adjust the display controls, heater and air conditioner controls or audio controls while driving so that full attention may be given to vehicle operation.**
- **If you noticed any foreign objects entering the system hardware, spilled liquid on the system, or noticed smoke or fumes coming out from the system, or any other unusual operation is observed, stop using the system immediately and contact the nearest NISSAN dealer. Ignoring such conditions may lead to an accident, fire or electric shock.**
- **Do not disassemble or modify this system. If you do, it may lead to an accident, fire, or electric shock.**
- **Park the vehicle in a safe location and apply the parking brake to view images on the front center display screen.**

CAUTION:

Do not use the system when the engine is not running for extended periods of time to prevent battery discharge.

REAR VIEW MONITOR (if equipped)



1. CAMERA button

WARNING:

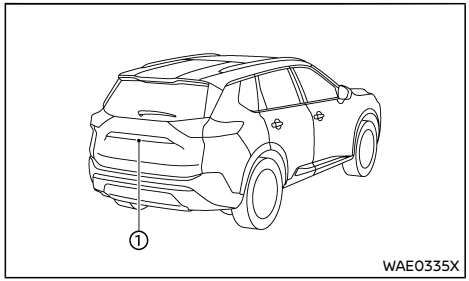
- **Failure to follow the warnings and instructions for proper use of the rear view monitor could result in serious injury or death.**
- **The rear view monitor is a convenience feature and is not a substitute for proper backing. Always turn and look out the windows, and check mirrors to be sure that it is safe to move before operating the vehicle. Always back up slowly.**
- **The system is designed as an aid to the driver in showing large stationary objects directly behind the vehicle, to help avoid damaging the vehicle.**
- **The distance guide line and the vehicle width line should be used as a reference only when the vehicle is on a level paved surface. The distance viewed on the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.**

CAUTION:

There is a transparent cover over the camera lens. Do not scratch the cover when cleaning dirt or snow from it.

The rear view monitor system automatically shows a rear view of the vehicle when the shift lever is placed in the "R" (Reverse) position.

The radio can still be heard while the rear view monitor is active.

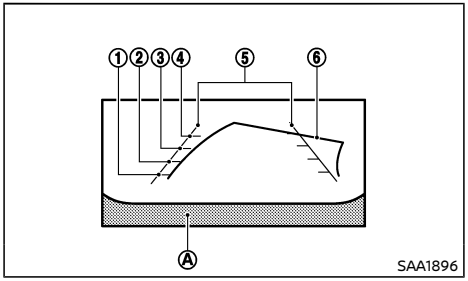


To display the rear view, the rear view monitor system uses a camera ① located just above the vehicle's license plate.

REAR VIEW MONITOR SYSTEM OPERATION

When the ignition switch is placed in the "ON" position, move the shift lever to the "R" (Reverse) position to operate the rear view monitor.

HOW TO READ THE DISPLAYED LINES



Guiding lines which indicate the vehicle width and distances to objects with reference to the bumper line Ⓐ are displayed on the monitor.

Distance guide lines:

Indicate distances from the vehicle body.

- Red line ①: approximately 0.5 m (1.5 ft)
- Yellow line ②: approximately 1 m (3 ft)
- Green line ③: approximately 2 m (7 ft)
- Green line ④ : approximately 3 m (10 ft)

Vehicle width guide lines ⑤:

Indicate the vehicle width when backing up.

Predictive course lines ⑥:

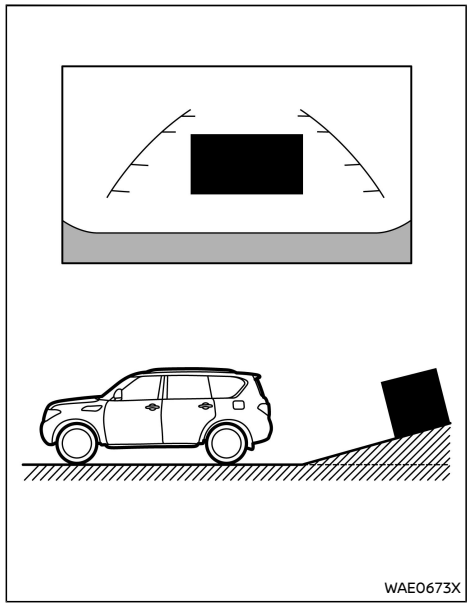
Indicate the predictive course when backing up. The predictive course lines will be displayed on the monitor when the shift lever is in the "R" (Reverse) position and if the steering wheel is turned. The predictive course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight ahead position.

The vehicle width guide lines and the width of the predictive course lines are wider than the actual width and course.

DIFFERENCE BETWEEN PREDICTIVE AND ACTUAL DISTANCES

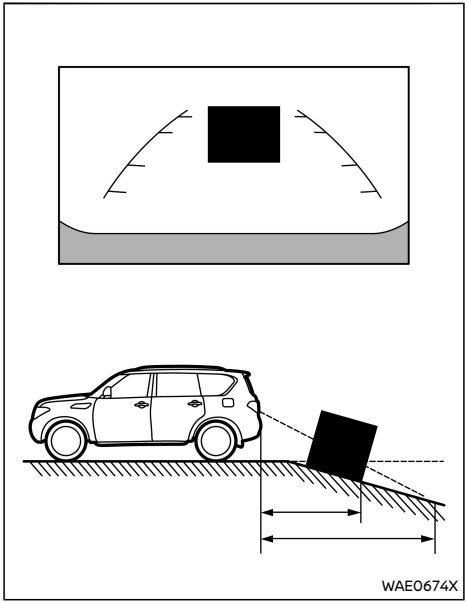
The displayed guide lines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guide lines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.

Backing up on a steep uphill



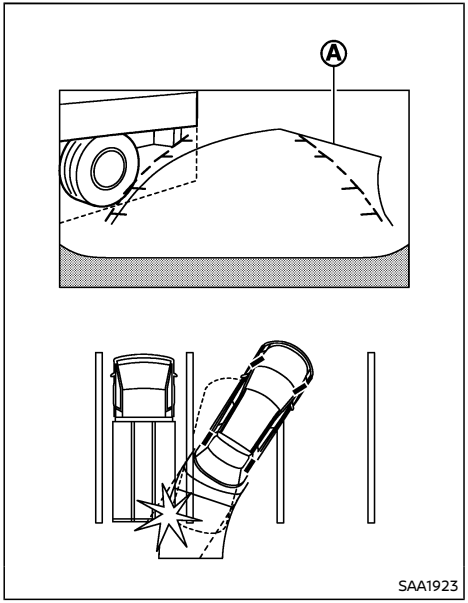
When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is farther than it appears on the monitor.

Backing up on a steep downhill



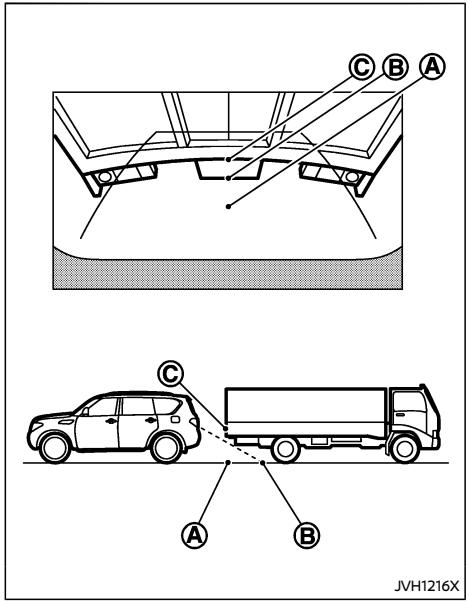
When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

Backing up near a projecting object



The predictive course lines Ⓐ do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.

Backing up behind a projecting object

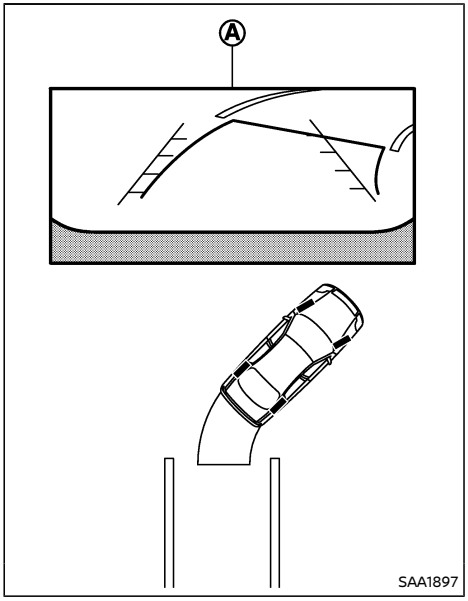


The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

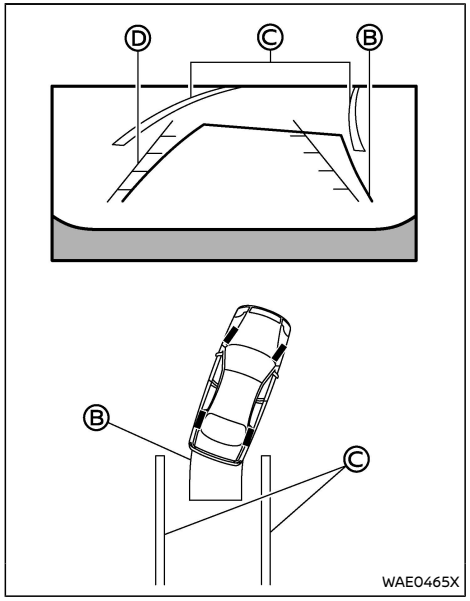
HOW TO PARK WITH PREDICTIVE COURSE LINES

WARNING:

- **If the tires are replaced with different sized tires, the predictive course lines may be displayed incorrectly.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predictive course lines may be displayed incorrectly. If this occurs, please perform the following procedures:**
  - **— Turn the steering wheel from lock to lock while the engine is running.**
  - **— Drive the vehicle on a straight road for more than 5 minutes.**
- **When the steering wheel is turned with the ignition switch in the "ON" position, the predictive course lines may be displayed incorrectly.**



1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ when the shift lever is moved to the "R" (Reverse) position.



3. Slowly back up the vehicle adjusting the steering wheel so that the predictive course lines Ⓑ enter the parking space Ⓒ.
4. Maneuver the steering wheel to make the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predictive course lines.
5. When the vehicle is parked in the space completely, place the shift position in the "P" (Park) position and apply the parking brake.

REAR VIEW MONITOR SETTINGS

To set up the rear view monitor, push the CAMERA button while the shift lever is out of the "R" (Reverse) position to display the Camera Setting screen.

Available setting items:

- Predictive course line
  Predictive course lines can be turned on/off.
- Display setting
  The brightness, contrast, tint, color and black level can be adjusted.

NOTE:

Do not adjust any of the display settings of the rear view monitor while the vehicle is moving. Make sure the parking brake is firmly applied.

The predictive course lines can also be turned on and off by pushing the CAMERA button while the shift lever is in the "R" (Reverse) position.

REAR VIEW MONITOR SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for rear view monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The system cannot completely eliminate blind spots and may not show every object.**
- **Underneath the bumper and the corner areas of the bumper cannot be viewed on the rear view monitor because of its monitoring range limitation. The system will not show small objects below the bumper, and may not show objects close to the bumper or on the ground.**
- **Objects viewed in the rear view monitor differ from actual distance because a wide-angle lens is used.**
- **Objects in the rear view monitor will appear visually opposite compared to when viewed in the rear view and outside rearview mirrors.**
- **Use the displayed lines as a reference. The lines are highly affected by the number of occupants, fuel level, vehicle position, road conditions and road grade.**
- **Make sure that the back door is securely closed when backing up.**
- **Do not put anything on the rear view camera. The rear view camera is installed above the license plate.**
- **When washing the vehicle with high-pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.**

The following are operating limitations and do not represent a system malfunction:

- When the temperature is extremely high or low, the screen may not clearly display objects.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper.
- The screen may flicker under fluorescent light.
- The colors of objects on the rear view monitor may differ somewhat from the actual color of objects.
- Objects on the monitor may not be clear in a dark environment.
- There may be a delay when switching between views.
- If dirt, rain or snow accumulates on the camera, the rear view monitor may not display objects clearly. Clean the camera.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth dampened with a diluted mild cleaning agent, then wipe with a dry cloth.

If the camera image is not displayed properly

If the following condition persists even with the shift position switched to "R" (Reverse) and the rear view monitor system activated, the camera system may be malfunctioning. This will not hinder normal driving operation, but the system should be inspected. It is recommended you visit a NISSAN dealer.

If the camera system does not work:

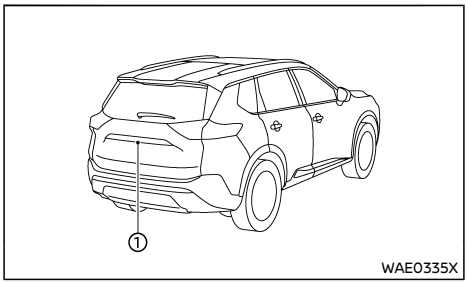
When the screen does not switch to the camera image and continues to display the previous screen (other than the camera).

If there is an abnormality in the image (due to camera system malfunction):

When the rear view monitor screen displays abnormal camera images such as black, blue, or gray, etc.

INTELLIGENT AROUND VIEW MONITOR (if equipped)

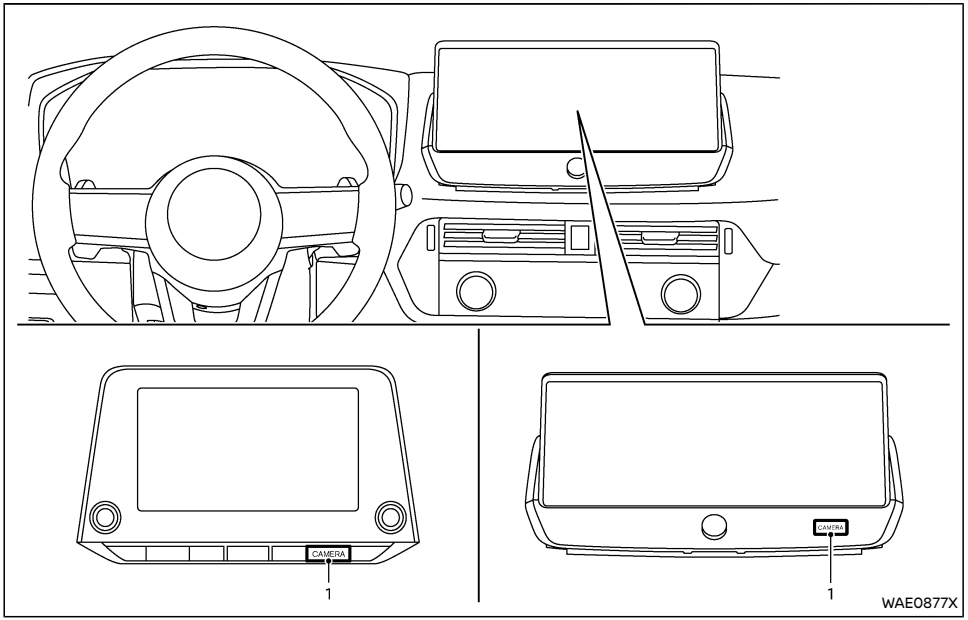
SYSTEM MAINTENANCE



CAUTION:

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on the camera ①, rear view monitor may not display objects clearly. Clean the camera by wiping it with a cloth dampened with a diluted mild cleaning agent and then wiping it with a dry cloth.



1. CAMERA button

WARNING:

- **Failure to follow the warnings and instructions for the proper use of the Intelligent Around View Monitor system could result in serious injury or death.**
- **The Intelligent Around View Monitor is a convenience feature and is not a substitute for proper vehicle operation because it has areas where objects cannot be viewed. The four corners of the vehicle in particular, are areas where objects do not always appear in the bird's-eye, front, or rear views. Always check your surroundings to be sure that it is safe to move before operating the vehicle. Always operate the vehicle slowly.**
- **The driver is always responsible for safety during parking and other maneuvers.**

CAUTION:

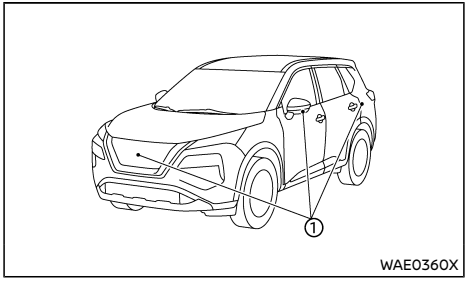
Do not scratch the lens when cleaning dirt or snow from the front of the camera.

The Intelligent Around View Monitor system is designed as an aid to the driver in situations such as slot parking or parallel parking.

The monitor displays various views of the position of the vehicle in a split screen format. Not all views are available at all times.

Available views:

- Front view
  A view of the front of the vehicle
- Rear view
  A view of the rear of the vehicle
- Bird's-eye view
  The surrounding view of the vehicle from above
- Front-side view
  The view around and ahead of the front passenger's side wheel
- Front-wide view
  A wider area view of the front view
- Rear-wide view
  A wider area view of the rear view



To display the multiple views, the Intelligent Around View Monitor system uses cameras ① located on the front grille, on the vehicle's outside rearview mirrors and one just above the vehicle's rear license plate.

INTELLIGENT AROUND VIEW MONITOR SYSTEM OPERATION

When the ignition switch is placed in the "ON" position, push the CAMERA button on the instrument panel or move the shift lever to the "R" (Reverse) position to operate the Intelligent Around View Monitor.

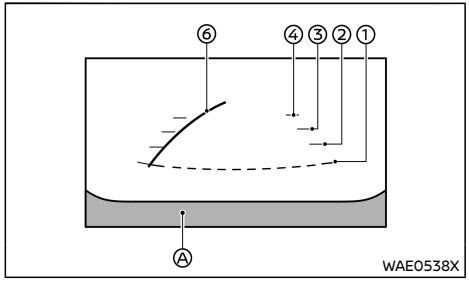
The screen displayed on the Intelligent Around View Monitor will automatically return to the previous screen 3 minutes after the CAMERA button has been pushed with the shift lever in a position other than the "R" (Reverse) position.

Available views

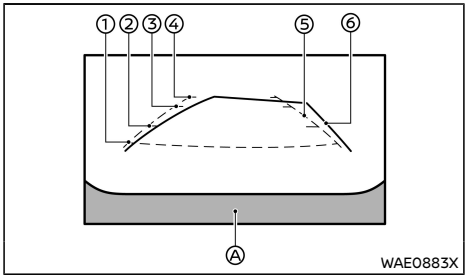
WARNING:

- **The distance guide lines and the vehicle width guide lines should be used as a reference only when the vehicle is on a paved, level surface. The apparent distance viewed on the monitor may be different than the actual distance between the vehicle and displayed objects.**
- **Use the displayed lines and the bird's-eye view as a reference. The lines and the bird's-eye view are greatly affected by the number of occupants, fuel level, vehicle position, road condition and road grade.**
- **If the tires are replaced with different sized tires, the predictive course lines and the bird's-eye view may be displayed incorrectly.**
- **When driving the vehicle up a hill, objects viewed in the monitor are farther than they appear. When driving the vehicle down a hill, objects viewed in the monitor are closer than they appear.**
- **Objects in the rear view will appear visually opposite compared to when viewed in the rear view and outside rear-view mirrors.**
- **Use the mirrors or actually look to properly judge distances to other objects.**
- **The distance between objects viewed in the rear view differs from actual distance because a wide-angle lens is used.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **The vehicle width and predictive course lines are wider than the actual width and course.**

Front and rear view:



Front view



Rear view (example)

Guiding lines that indicate the approximate vehicle width and distances to objects with reference to the vehicle body line Ⓐ , are displayed on the monitor.

Distance guide lines:

Indicate distances from the vehicle body.

- Red line ① : approximately 0.5 m (1.5 ft)
- Yellow line ② : approximately 1 m (3 ft)
- Green line ③ : approximately 2 m (7 ft)
- Green line ④ : approximately 3 m (10 ft)

Vehicle width guide lines ⑤ :

Indicate the vehicle width.

Predictive course lines ⑥ :

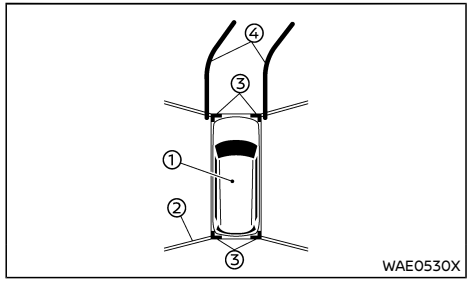
Indicate the predictive course when operating the vehicle. The predictive course lines will move depending on how much the steering wheel is turned. The predictive course lines in the rear view will not be displayed while the steering wheel is in the straight ahead position.

The front view will not be displayed when the vehicle speed is above 10 km/h (6 MPH).

NOTE:

When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the straight ahead position, both the right and left predictive course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, the predictive course line is displayed only on the opposite side of the turn.

Bird's-eye view:



The bird's-eye view shows the overhead view of the vehicle which helps confirm the vehicle position and the predictive course to a parking space.

The vehicle icon ① shows the position of the vehicle. Note that the distance between objects viewed in the bird's-eye view differs from the actual distance.

The areas between the camera views ② (if equipped) are indicated in black.

After the ignition switch is placed in the "ON" position, the non-viewable area ② (if equipped) is highlighted in yellow for a few seconds after the bird's-eye view is displayed.

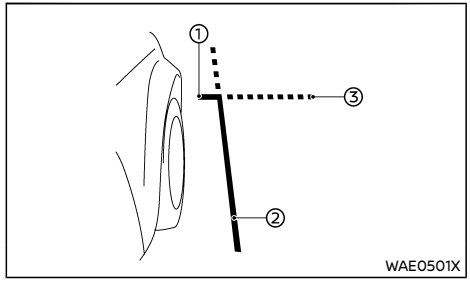
The amber markers ③ are displayed when the parking sensor (sonar) is turned off or the parking sensor (sonar) is not available at the corner.

The predictive course lines ④ indicate the predicted course when operating the vehicle.

WARNING:

- **Objects in the bird's-eye view will appear farther than the actual distance.**
- **Tall objects, such as a curb or vehicle, may be misaligned or not displayed at the seam of the views.**
- **Objects that are above the camera cannot be displayed.**
- **The view for the bird's-eye view may be misaligned when the camera position alters.**
- **A line on the ground may be misaligned and is not seen as being straight at the seam of the views. The misalignment will increase as the line proceeds away from the vehicle.**

Front-side view:



The screen layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Hand Drive (RHD) model, the screen layout will

be opposite.

Guiding lines:

Guiding lines that indicate the approximate width and the front end of the vehicle are displayed on the monitor.

The front-of-vehicle line ① shows the front part of the vehicle.

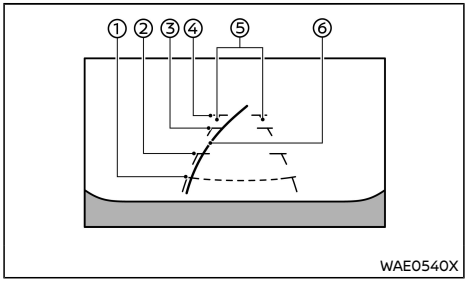
The side-of-vehicle line ② shows the vehicle width including the outside rearview mirrors.

The extensions ③ of both the front ① and side ② lines are shown with a green dotted line.

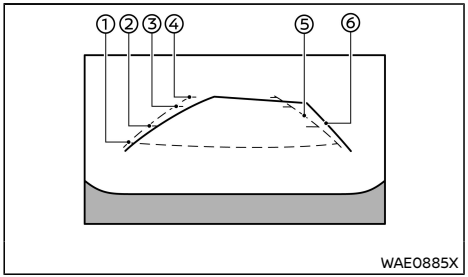
CAUTION:

The turn signal light may look like the side-of-vehicle line. This is not a malfunction.

Front-wide/rear-wide view:



Front-wide view



Rear-wide view

While the front view/rear view shows a normal view on the split screens, the front-wide view/rear-wide view shows a wider area on the entire screen and allows checking of the blind corners on the right and left sides.

Distance guide lines ① - ④ :

Indicate distances from the vehicle body.

- Red line ①: approximately 0.5 m (1.5 ft)
- Yellow line ②: approximately 1 m (3 ft)
- Green line ③: approximately 2 m (7 ft)
- Green line ④: approximately 3 m (10 ft)

Vehicle width guide lines ⑤ :

Indicate the approximate vehicle width.

Predictive course lines ⑥ :

Indicate the predictive course when operating the vehicle. The predictive course lines will move depending on how much the steering wheel is turned. The predictive course lines in the rear-wide view will not be displayed while the steering wheel is in the straight ahead position.

The front-wide view will not be displayed when the vehicle speed is above 10 km/h (6 MPH).

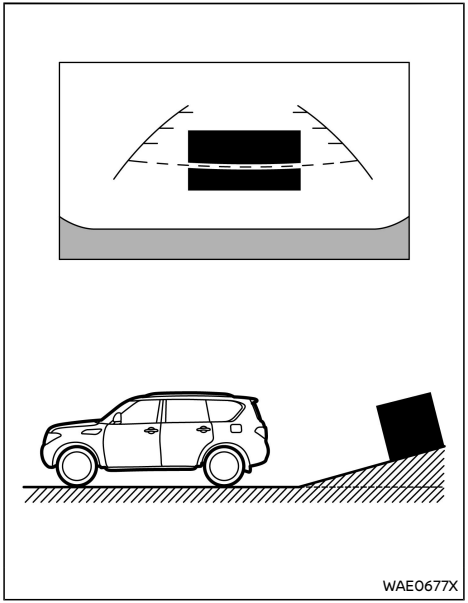
NOTE:

When the monitor displays the front-wide view and the steering wheel turns about 90 degrees or less from the straight ahead position, both the right and left predictive course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, the predictive course line is displayed only on the opposite side of the turn.

DIFFERENCE BETWEEN PREDICTIVE AND ACTUAL DISTANCES

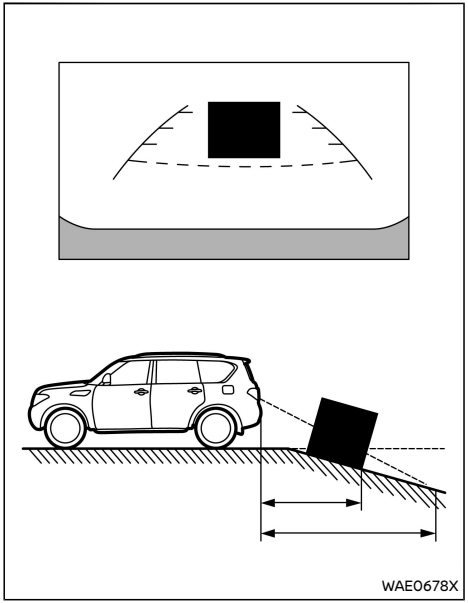
The displayed guide lines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guide lines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.

Backing up on a steep uphill



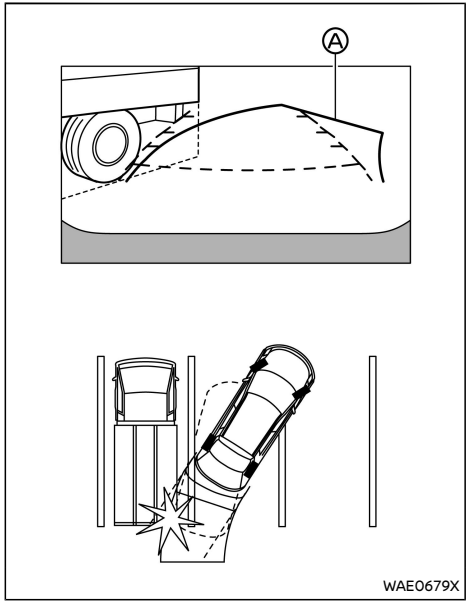
When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is farther than it appears on the monitor.

Backing up on a steep downhill



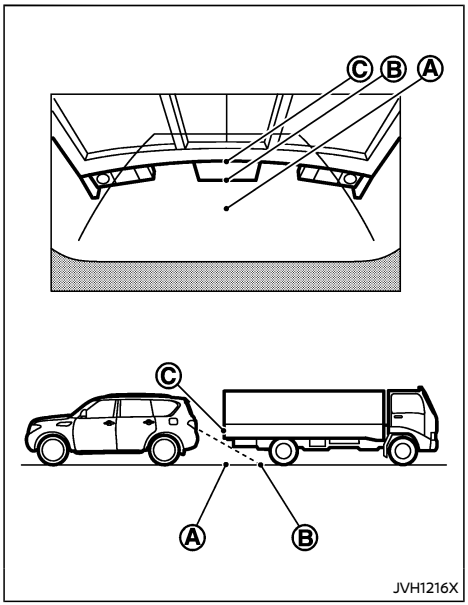
When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

Backing up near a projecting object



The predictive course lines Ⓐ do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.

Backing up behind a projecting object

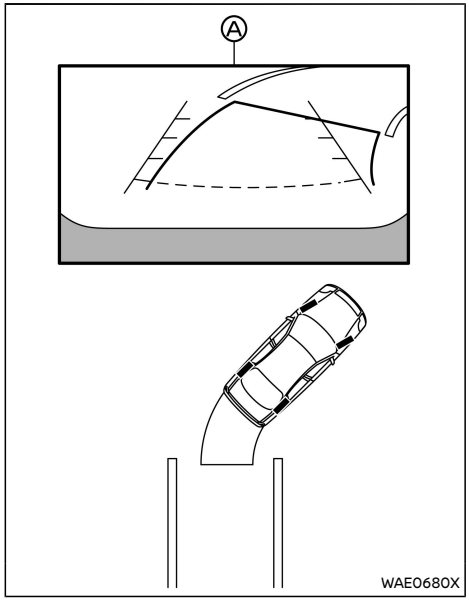


The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ . The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual moving course.

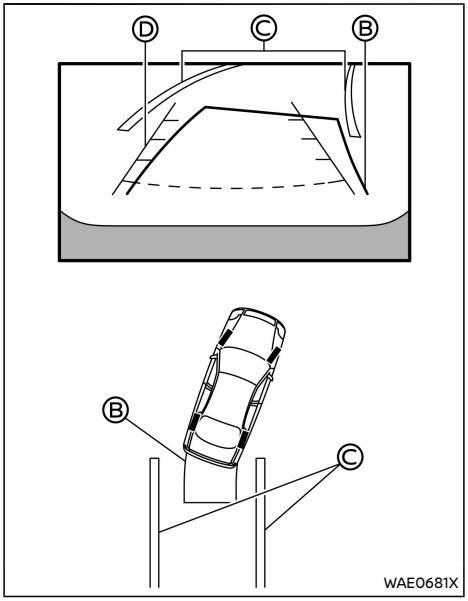
HOW TO PARK WITH PREDICTIVE COURSE LINES

WARNING:

- **If the tires are replaced with different sized tires, the predictive course lines may be displayed incorrectly.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predictive course lines may be displayed incorrectly. If this occurs, please perform the following procedures:**
  - **— Turn the steering wheel from lock to lock while the engine is running.**
  - **— Drive the vehicle on a straight road for more than 5 minutes.**
- **When the steering wheel is turned with the ignition switch in the "ON" position, the predictive course lines may be displayed incorrectly.**



1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ when the shift lever is moved to the "R" (Reverse) position.



3. Slowly back up the vehicle adjusting the steering wheel so that the predictive course lines Ⓑ enter the parking space Ⓒ.
4. Maneuver the steering wheel to make the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predictive course lines.
5. When the vehicle is parked in the space completely, place the shift position in the "P" (Park) position and apply the parking brake.

HOW TO SWITCH THE DISPLAY

With the ignition switch placed in the "ON" position, push the CAMERA button or move the shift lever to the "R" (Reverse) position to operate the Intelligent Around View Monitor.

The Intelligent Around View Monitor displays different split screen views depending on the position of the shift lever. Push the CAMERA button to switch between the available views.

If the shift lever is in the "R" (Reverse) position, the available views are:

- Rear view/bird's-eye view split screen
- Rear view/front-side view split screen
- Rear-wide view

If the shift lever is out of the "R" (Reverse) position, the available views are:

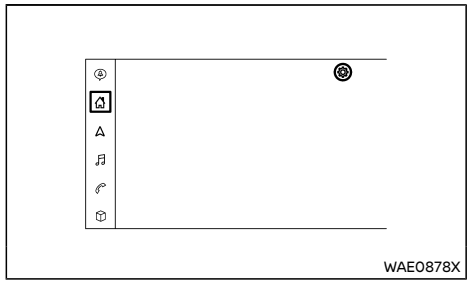
- Front view/bird's-eye view split screen
- Front view/front-side view split screen
- Front-wide view

The display will switch from the Intelligent Around View Monitor screen when:

- The shift lever is in the "D" (Drive) position and the vehicle speed increases above approximately 10 km/h (6 MPH).
- A different screen is selected.

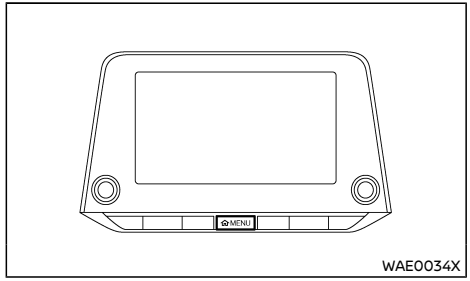
ADJUSTING THE SCREEN

Type A:



1. Touch the "⌂" key.
2. Touch the "⚙" key.
3. Touch the "Camera" key.
4. Touch the "Display Settings" key.
5. Touch the "+" or "-" key of the desired item on the touch screen display. You can change the brightness, contrast, tint, colour and black level.

Type B:



1. Push the MENU button.
2. Touch the "Settings" key and then touch the "Camera" key.
3. Touch the "Display Settings" key.
4. Touch the "Brightness", "Contrast", "Tint", "Colour", or "Black Level" key.
5. Adjust the item by touching the "+" or "–" key on the touch screen display.

NOTE:

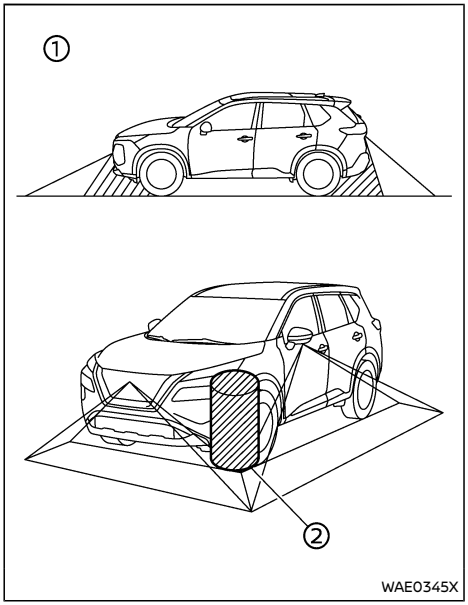
Do not adjust any of the Intelligent Around View Monitor settings while the vehicle is moving. Make sure the parking brake is firmly applied.

INTELLIGENT AROUND VIEW MONITOR SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for Intelligent Around View Monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Do not use the Intelligent Around View Monitor with the outside rearview mirrors in the stored position, and make sure that the back door is securely closed when operating the vehicle using the Intelligent Around View Monitor.**
- **The apparent distance between objects viewed on the Intelligent Around View Monitor differs from the actual distance.**
- **The cameras are installed on the front grille, the outside rearview mirrors and above the rear license plate. Do not put anything on the cameras.**
- **When washing the vehicle with high pressure water, be sure not to spray it around the cameras. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.**
- **Do not strike the cameras. They are precision instruments. Doing so could cause a malfunction or cause damage resulting in a fire or an electric shock.**

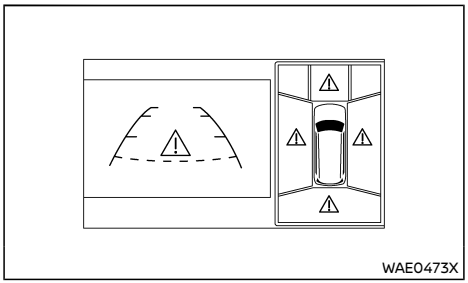


There are some areas where the system will not show objects and the system does not warn of moving objects. When in the front or the rear view display, an object below the bumper or on the ground may not be viewed ①. When in the bird's-eye view, a tall object near the seam ② of the camera viewing areas will not appear in the monitor.

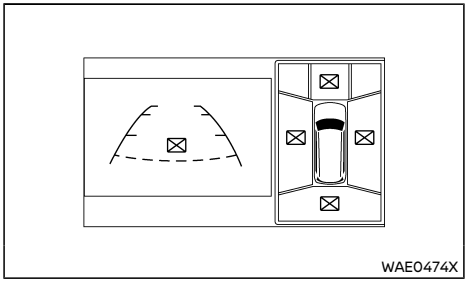
The following are operating limitations and do not represent a system malfunction:

- There may be a delay when switching between views.
- When the temperature is extremely high or low, the screen may not display objects clearly.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- The screen may flicker under fluorescent light.
- The colors of objects on the Intelligent Around View Monitor may differ somewhat from the actual color of objects.
- Objects on the Intelligent Around View Monitor may not be clear and the color of the object may differ in a dark environment.
- There may be differences in sharpness between each camera view of the bird's-eye view.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth that has been dampened with a diluted mild cleaning agent, then wipe with a dry cloth.

System temporarily unavailable


WAE0473X

When the " ⚠ " icon is displayed on the screen, there will be abnormal conditions in the Intelligent Around View Monitor. This will not hinder normal driving operation but the system should be inspected. It is recommended you visit a NISSAN dealer.


WAE0474X

When the " ⊠ " icon is displayed on the screen, the camera image may be receiving temporary electronic disturbances from surrounding devices. This will not hinder normal driving operation but the system should be inspected. It is recommended you visit a NISSAN dealer.

The screen layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Hand Drive (RHD) model, the screen layout will be opposite.

If the camera image is not displayed properly

If the following condition persists even with the shift position switched to "R" (Reverse) and the Intelligent Around View Monitor system activated, the camera system may be malfunctioning. This will not hinder normal driving operation, but the system should be inspected. It is recommended you visit a NISSAN dealer.

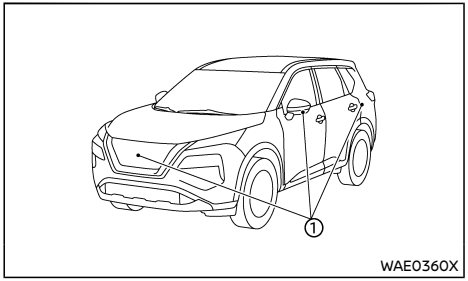
If the camera system does not work:

When the screen does not switch to the camera image and continues to display the previous screen (other than the camera).

If there is an abnormality in the image (due to camera system malfunction):

When the Intelligent Around View Monitor screen displays abnormal camera images such as black, blue or gray, etc.

SYSTEM MAINTENANCE



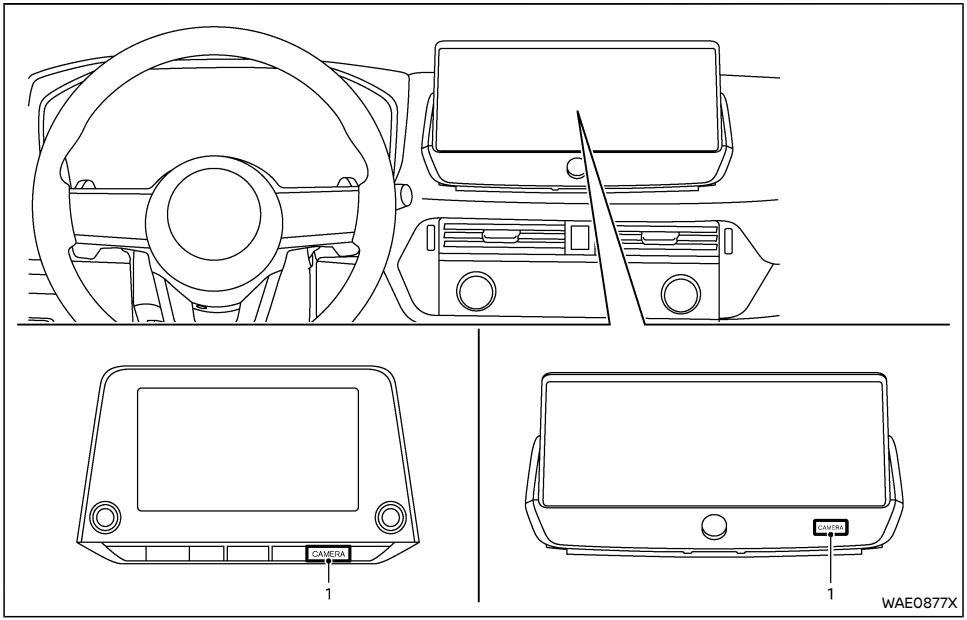
WAE0360X

CAUTION:

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on any of the cameras ①, the Intelligent Around View Monitor may not display objects clearly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

MOVING OBJECT DETECTION (MOD) (if equipped)



1. CAMERA button

WARNING:

- **Failure to follow the warnings and instructions for proper use of the Moving Object Detection system could result in serious injury or death.**
- **The MOD system is not a substitute for proper vehicle operation and is not designed to prevent contact with objects surrounding the vehicle. When maneuvering, always use the outside rearview mirror and inside rearview mirror and turn and check the surroundings to ensure it is safe to maneuver.**
- **The system is deactivated at speeds above 8 km/h (5 MPH). It is reactivated at lower speeds.**
- **The MOD system is not designed to detect the surrounding stationary objects.**

The MOD system can inform the driver of moving objects near the vehicle when driving out of garages, maneuvering in parking lots and in other such instances.

The MOD system detects moving objects by using image processing technology on the image shown in the display.

MOD SYSTEM OPERATION

The MOD system will turn on automatically under the following conditions:

- When the shift lever is in the "R" (Reverse) position.
- When the CAMERA button is pushed to activate the Intelligent Around View Monitor system on the display.
- When vehicle speed decreases below approximately 8 km/h (5 MPH).

The MOD system operates in the following conditions when the camera view is displayed:

- When the shift lever is in the "P" (Park) or "N" (Neutral) position and the vehicle is stopped, the MOD system detects the moving objects in the bird's-eye view. The MOD system will not operate if either door is opened. If outside rearview mirrors are folded, MOD may not operate properly.
- When the shift lever is in the "D" (Drive) position, and the vehicle speed is below approximately 8 km/h (5 MPH), the MOD system detects moving objects in the front view or front-wide view.
- When the shift lever is in the "R" (Reverse) position and the vehicle speed is below approximately 8 km/h (5 MPH), the MOD system detects moving objects in the rear view or rear-wide view. The MOD system will not operate if the back door is open.

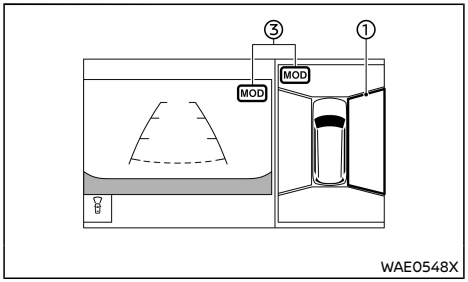
The MOD system does not detect moving objects in the front-side view. The MOD icon is

not displayed on the screen when in this view.

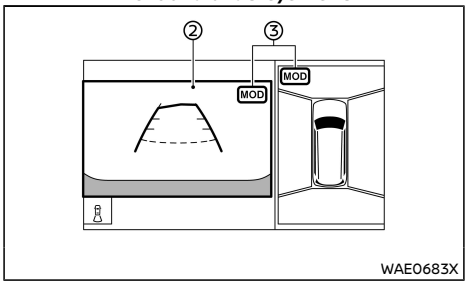
When the MOD system detects a moving object near the vehicle, the yellow frame will be displayed on the view where the object is detected and a chime will sound once. While the MOD system continues to detect moving objects, the yellow frame continues to be displayed.

NOTE:

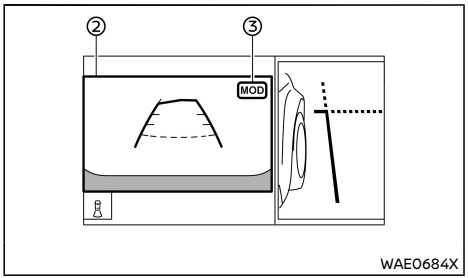
While the RCTA chime (if equipped) is beeping, the MOD system does not chime.



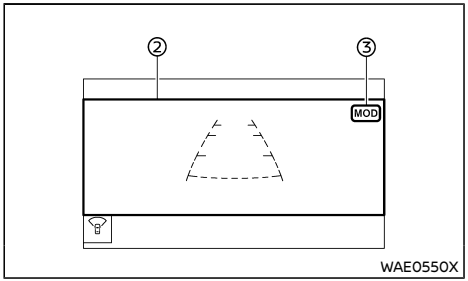
Front and bird's-eye views



Rear and bird's-eye views



Rear and front-side views



Front-wide view / rear-wide view

The screen layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Hand Drive (RHD) model, the screen layout will be opposite.

In the bird's-eye view, the yellow frame ① is displayed on each camera image (front, rear, right, left) depending on where moving objects are detected.

The yellow frame ② is displayed on the front view, rear view, front-wide view and rear-wide view.

A green MOD icon ③ is displayed in the view where the MOD system is operative. A gray MOD icon ③ is displayed in the view where the MOD system is not operative.

If the MOD system is turned off, the MOD icon ③ is not displayed.

TURNING MOD ON AND OFF

The MOD system can be turned on and off using the vehicle information display. (See "Driver Assistance" (P.2-22).)

MOD SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for MOD. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Do not use the MOD system when towing a trailer (for Australia, New Zealand, South Africa and Europe). The system may not function properly.**
- **Excessive noise (for example, audio system volume or open vehicle window) will interfere with the chime sound, and it may not be heard.**
- **The MOD system performance will be limited according to environmental conditions and surrounding objects such as:**
  - **— When there is low contrast between background and the moving objects.**
  - **— When there is blinking source of light.**
  - **— When strong light such as another vehicle's headlight or sunlight is present.**
  - **— When camera orientation is not in its usual position, such as when the outside rearview mirror is folded.**

— When there is dirt, water drops or snow on the camera lens.

— When the position of the moving objects in the display is not changed.

- **The MOD system might detect flowing water droplets on the camera lens, white smoke from the muffler, moving shadows, etc.**
- **The MOD system may not function properly depending on the speed, direction, distance or shape of the moving objects.**
- **If your vehicle sustains damage to the parts where the camera is installed, leaving it misaligned or bent, the sensing zone may be altered and the MOD system may not detect objects properly.**
- **When the temperature is extremely high or low, the screen may not display objects clearly. This is not a malfunction.**

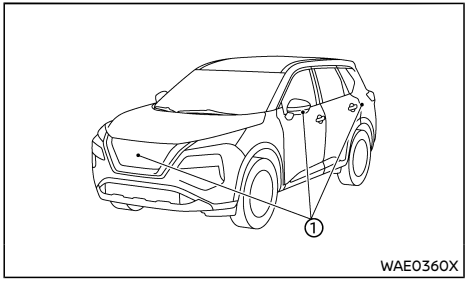
NOTE:

The green MOD icon will change to orange if one of the following has occurred.

- **When the system is malfunctioning.**
- **When the component temperature reaches a high level.**
- **When the rear view camera has detected a blockage.**

If the icon light continues to illuminate in orange, have the MOD system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

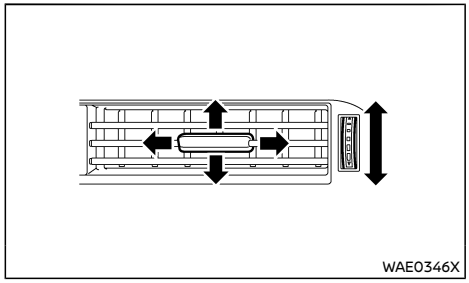


CAUTION:

- **Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.**
- **Do not damage the camera as the monitor screen may be adversely affected.**

If dirt, rain or snow accumulates on any of the cameras ①, the MOD system may not operate properly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

CENTER VENTILATORS

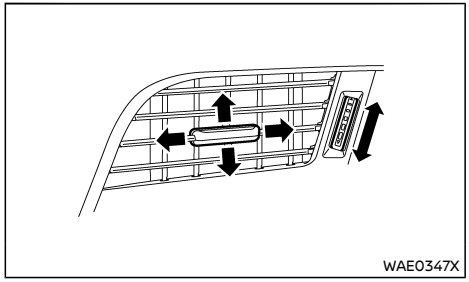


Right side

Open/close the ventilators by moving the control to either direction.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/right) until the desired position is achieved.

SIDE VENTILATORS



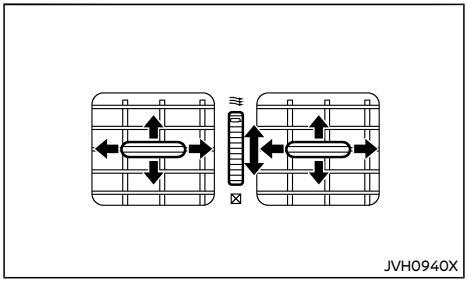
Right side

Open/close the ventilators by moving the control to either direction.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/

right) until the desired position is achieved.

REAR VENTILATORS



Open/close the ventilators by moving the control to either direction.

≋ : This symbol indicates that the ventilators are open. Moving the side control to this direction will open the ventilators.

⊠ : This symbol indicates that the ventilators are closed. Moving the side control to this direction will close the ventilators.

Adjust the air flow direction of the ventilators by moving the center knob (up/down, left/right) until the desired position is achieved.

WARNING:

- **The heater and air conditioner operate only when the engine is running.**
- **Never leave children or adults who would normally require the support of others alone in the vehicle. Pets should not be left alone either. They could unknowingly activate switches or controls and inadvertently become involved in a serious accident and injure themselves. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.**
- **Do not adjust the heating and air conditioning controls while driving so that full attention may be given to vehicle operation.**

The heater and air conditioner operate when the engine is running. The air blower will operate even if the engine is turned off and the ignition switch is placed in the "ON" position.

NOTE:

- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the ventilators.**
- **When parking, set the heater and air conditioner controls to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.**

For model with Stop/Start System or Idling Stop System:

While the engine is stopped by the Stop/Start System or Idling Stop System, activating the front defogger will cause the engine to automatically restart.

While the engine is running, activating the front defogger will prevent the Stop/Start System or Idling Stop System from automatically stopping the engine.

When the engine is stopped by the Stop/Start System or Idling Stop System, heater and air conditioner performance may be reduced. To keep full heater and air conditioner performance, restart the engine by pushing the Stop/Start OFF switch or the Idling Stop OFF switch. (See "Stop/Start System or Idling Stop System" (P.5-24).)

OPERATING TIPS (for automatic air conditioner)

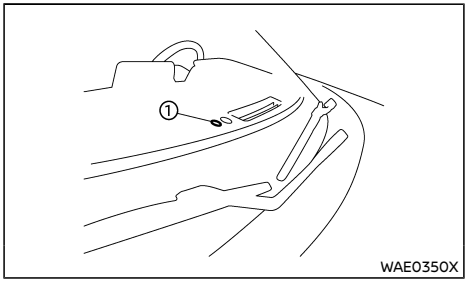
When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may be limited when in the automatic mode. However, this is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets will operate normally.

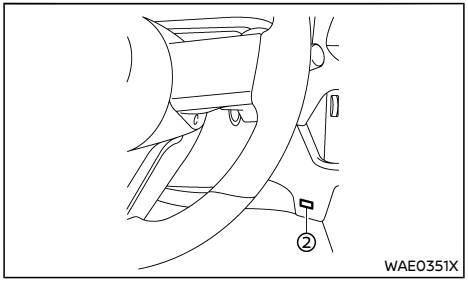
For rear temperature control (if equipped):

- The purpose of the rear temperature control is to vary the temperature of the rear air flow.
- The amount of air flow to the rear ventilators is primarily controlled by the front passenger's blower and mode settings.
- The amount of air flow to the rear ventilators is also affected by the rear temperature setting. Higher rear temperature settings have lower air flow amounts than

cooler temperature settings. This condition ensures better comfort to the head and face area, while primary heating for the rear passenger seats is provided through the foot outlets.

Sensors:

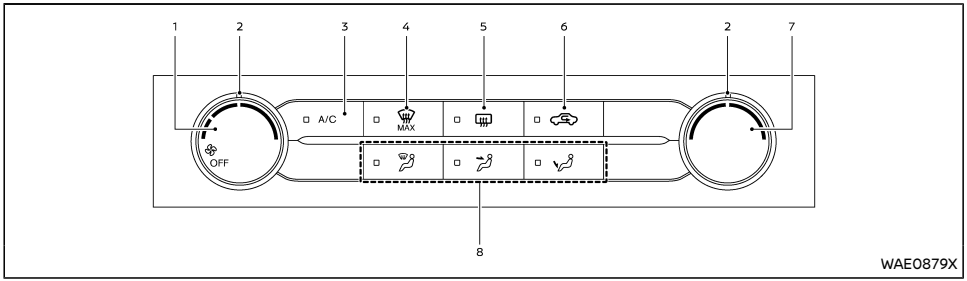




The sensors ① and ②, located on the instrument panel, help maintain a constant temperature. Do not put anything on or around the sensors.

The layout in the illustration is for the Left-Hand Drive (LHD) model. For the Right-Hand Drive (RHD) model, the sensors ① and ② are located on the opposite side.

MANUAL AIR CONDITIONER AND HEATER (Type A)



Example

1. (fan speed control) dial
2. Dial pointers
3. A/C (air conditioner) button
4. (front defogger MAX) button
5. (rear window defogger) button (See "Defogger switch" (P.2-60).)
6. (air recirculation) button
7. Temperature control dial
8. Air flow control buttons

Controls

Turning system on/off:

To turn on the system, turn the dial out of the OFF position. Turn the dial counterclockwise to the OFF position to turn off the system.

Fan speed control:

Turn the dial clockwise to increase the fan speed.

Turn the dial counterclockwise to decrease the fan speed.

The dial pointer indicates the fan speed level.

Temperature control:

Turn the temperature control dial to set the desired temperature. Turn the dial between the middle and the right position to select the hot temperature. Turn the dial between the middle and the left position to select the cool temperature. The dial pointer indicates the temperature level.

Air flow control:

Push one of the air flow control buttons to select the air flow outlets.

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger.

MAX defogging/defrosting:

Push the MAX button to turn on the MAX defogging/defrosting mode and quickly defog/defrost the windshield. When this mode is turned on, the A/C indicator light will turn on and the air circulation will be fixed at the outside air circulation mode. For the best performance, turn the temperature control dial to the maximum hot position and set the fan speed at its maximum.

Air intake control:

The air intake control mode will change each time the button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.

A/C (Air Conditioner) operation:

Push the A/C button to turn on or off the air conditioner. When the air conditioner is on, the A/C indicator light on the button illuminates.

Heater operation

Heating:

This mode is used to direct heated air from the foot outlets. Some air also flows from the defogger outlets and the side ventilator outlets.

1. For normal heating, push the button to turn the indicator light off for selecting the outside air circulation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot (right) position.

Ventilation:

This mode directs outside air from the side and center ventilators.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging:

This mode directs the air to the defogger outlets to defrost/defog the windows.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the MAX button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot (right) position.
5. Turn the side ventilators to the side windows to defrost or defog for a clear view to the side mirrors.

   To remove frost from the windshield quickly, turn the temperature control dial to the maximum hot (right) position and the dial to the maximum position.

   If it is difficult to defog the windshield, push the A/C button. (The indicator light will turn on.)

   When the front defogger mode is selected, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation indicator light automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance. The recirculation mode cannot be activated in the front defogger mode.

Heating and defogging:

This mode heats the interior and defogs the windows.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the maximum hot (right) position.
5. Turn the side ventilators to the side windows to defrost or defog for a clear view to the side mirrors.

When the button is pushed, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation indicator light automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

NOTE:

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

Air conditioner operation

Start the engine, turn the dial to the desired position, and push the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation. The air conditioner cooling function operates only when the engine is running.

Cooling:

This mode is used to cool and dehumidify the air.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Push the A/C button. (The indicator light will turn on.)
5. Turn the temperature control dial to the desired position between the middle and the cool (left) position.

Dehumidified heating:

This mode is used to heat and dehumidify the air.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Push the A/C button on. (The indicator light will turn on.)
5. Turn the temperature control dial to the desired position between the middle and the hot (right) position.

Dehumidified defogging:

This mode is used to defog the windows and dehumidify the air.

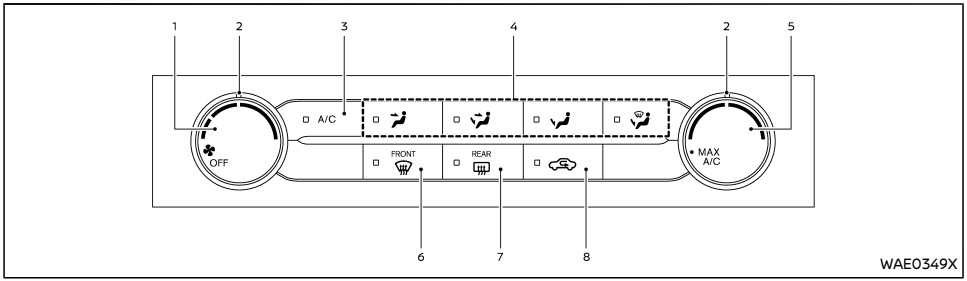
1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the MAX button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Push the A/C button. (The indicator light will turn on.)
5. Turn the temperature control dial to the desired position.

When the MAX mode is selected, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

NOTE:

- **The air conditioner system should be operated for approximately 10 minutes at least once a month. This helps prevent damage to the air conditioner system due to the lack of lubrication.**
- **A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.**
- **If the engine coolant temperature becomes too high, the air recirculation mode will be activated and the indicator light will turn on automatically.**
- **If the engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. (See "If your vehicle overheats" (P.6-15).)**

MANUAL AIR CONDITIONER AND HEATER (Type B)



Example

1. (fan speed control) dial
2. Dial pointers
3. A/C (air conditioner) button
4. Air flow control buttons
5. Temperature control dial
6. FRONT (front defogger) button
7. REAR (rear window defogger) button (See "Defogger switch" (P.2-60).)
8. (air recirculation) button

Controls

Turning system on/off:

To turn on the system, turn the dial out of the OFF position. Turn the dial counterclockwise to the OFF position to turn off the system.

Fan speed control:

Turn the dial clockwise to increase the fan speed.

Turn the dial counterclockwise to decrease the fan speed.

The dial pointer indicates the fan speed level.

Temperature control:

Turn the temperature control dial to set the desired temperature. Turn the dial between the middle and the right position to select the hot temperature. Turn the dial between the middle and the left position to select the cool temperature. The dial pointer indicates the temperature level.

Air flow control:

Push one of the air flow control buttons to select the air flow outlets.

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from center and side ventilators and foot outlets.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger and foot outlets.

Air intake control:

The air intake control mode will change each time the button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.

A/C (Air Conditioner) operation:

Push the A/C button to turn on or off the air conditioner. When the air conditioner is on, the A/C indicator light on the button illuminates.

MAX A/C (Quick Air Conditioning) operation (if equipped):

To turn on the MAX A/C mode for maximum cooling and dehumidifying, turn the temperature control dial counterclockwise until the dial pointer is at the "MAX A/C" position.

When the MAX A/C mode is turned on, the air flow mode indicator light will turn off with the air flow mode fixed at .

At the same time, the indicator light on the A/C button and the air recirculation mode will turn on.

To turn off the MAX A/C mode, turn the temperature control dial clockwise so that the dial pointer is out of the "MAX A/C" position. When the MAX A/C mode is turned off, most of the settings will return to the previous state, while the indicator light on the A/C button will stay on.

Heater operation

Heating:

This mode is used to direct heated air from the foot outlets. Some air also flows from the defogger outlets and the side ventilator outlets.

1. Push the button for normal heating. (The indicator light will turn off.)
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot (right) position.

Ventilation:

This mode directs outside air from the side and center ventilators.

1. Push the button. (The indicator light will turn off.)
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position.

Defrosting or defogging:

This mode directs the air to the defogger outlets to defrost/defog the windows.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the FRONT button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position between the middle and the hot (right) position.

   To remove frost from the windshield quickly, turn the temperature control dial to the maximum hot (right) position and the dial to the maximum position.

   When the front defogger mode is selected, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation indicator light automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance. The recirculation mode cannot be activated in the front defogger mode.

Bi-level heating:

The bi-level mode directs warmed air to the side and center ventilators and to the front and rear floor outlets.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position.

Heating and defogging:

This mode heats the interior and defogs the windows.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the maximum hot (right) position.

When the button is pushed, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation indicator light automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

NOTE:

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

Air conditioner operation

Start the engine, turn the dial to the desired position, and push the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation. The air conditioner cooling function operates only when the engine is running.

Cooling:

This mode is used to cool and dehumidify the air.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Push the A/C button. (The indicator light will turn on.)

5. Turn the temperature control dial to the desired position between the middle and the cool (left) position.

For quick cooling, turn on the MAX A/C mode (if equipped) by turning the temperature control dial until the dial pointer is at the "MAX A/C" position. When the MAX A/C mode is turned on, it will activate the air recirculation mode. The amount of air coming through the ventilators is the highest it can go when in MAX A/C mode regardless of the position of the dial.

Dehumidified heating:

This mode is used to heat and dehumidify the air.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Push the A/C button on. (The indicator light will turn on.)
5. Turn the temperature control dial to the desired position between the middle and the hot (right) position.

Dehumidified defogging:

This mode is used to defog the windows and dehumidify the air.

1. Push the button to turn the indicator light off for selecting the outside air recirculation.
2. Push the FRONT button. (The indicator light will turn on.)
3. Turn the dial to the desired position.
4. Turn the temperature control dial to the desired position.

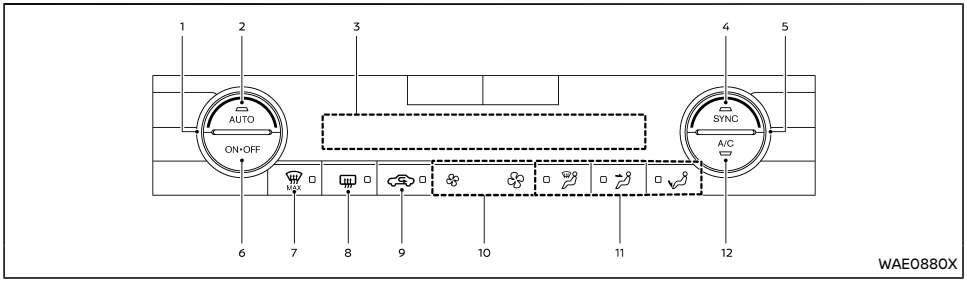
When the FRONT or mode is selected, the air conditioner automatically turns on if the outside temperature is more than slightly above freezing. This dehumidifies the air which helps defog the windshield. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

The air conditioner is always turned on in the FRONT or mode, regardless of whether the indicator light is on or off.

NOTE:

- **The air conditioner system should be operated for approximately 10 minutes at least once a month. This helps prevent damage to the air conditioner system due to the lack of lubrication.**
- **A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.**
- **If the engine coolant temperature becomes too high, the air recirculation mode will be activated and the indicator light will turn on automatically.**
- **If the engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. (See "If your vehicle overheats" (P.6-15).)**

AUTOMATIC AIR CONDITIONER (models without rear control) (Type A)



Example

1. Temperature control dial (driver's side)
2. AUTO (automatic) button
3. Display screen
4. SYNC (synchronize) button
5. Temperature control dial (passenger's side)
6. ON·OFF button
7. (front defogger MAX) button
8. (rear window defogger) button
   (See "Defogger switch" (P.2-60).)
9. (air recirculation) button
10. (fan speed control) buttons
11. Air flow control buttons
12. A/C (air conditioner) button

The layout of the buttons may vary depending on the models and specifications.

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF):

The air conditioner does not activate in this mode. Use this mode when you only need to heat.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Push the A/C button. (The indicator light will turn off.)
3. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

NOTE:

- **Do not set the temperature lower than the outside air temperature or the system may not work properly.**
- **Not recommended if windows fog up.**

MAX defrosting/defogging:

Push the button to turn on the MAX defogging/defrosting mode and quickly defog/defrost the windshield. When this mode is turned on, the fan will be at its maximum speed, the A/C indicator light will turn on, and the air circulation will be fixed at the outside air circulation mode.

Do not set the temperature too low when the front defogger mode is on (the indicator light on the button is illuminated), because doing so may fog up the windshield.

Manual operation

Fan speed control:

Push the buttons to manually control the fan speed.

Air intake control:

The air intake control mode will change each time the button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.
- To switch to automatic control mode, push and hold the button for about 2 seconds. The indicator light will blink, and then the air intake will be controlled automatically.

Air flow control:

Push one of the air flow control buttons to select the air flow outlets.

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger.

Synchronize temperature settings:

Push the SYNC button to turn on the SYNC mode. (The indicator light on the button will turn on.)

When the SYNC mode is active, the driver's side temperature control dial will control the driver's and front passenger's side temperatures.

To exit the SYNC mode, change the passenger's side temperature using the temperature control dial on the front passenger's side. (The indicator light on the SYNC button will turn off.)

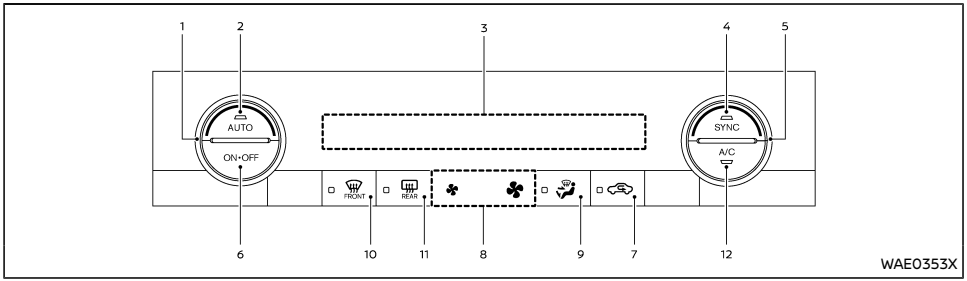
To turn the system off

Push the ON·OFF button.

Remote engine start logic (if equipped)

When the remote engine start function is activated, the vehicles equipped with the automatic air conditioner and heater may go into automatic heating or cooling mode depending on the outside and cabin temperatures. During this period, the display and the buttons will be inoperable until the ignition switch is placed in the "ON" position. When the temperature is low, the rear defogger and the heated steering wheel (if equipped) may also be activated automatically with the activation of the remote engine start function. (See "Remote engine start" (P.3-19).)

AUTOMATIC AIR CONDITIONER (models without rear control) (Type B)



Example

1. Temperature control dial (driver's side)
2. AUTO (automatic) button
3. Display screen
4. SYNC (synchronize) button
5. Temperature control dial (passenger's side)
6. ON·OFF button
7. (air recirculation) button
8. (fan speed control) buttons
9. (air flow control) button
10. (front defogger) button
11. (rear window defogger) button
    (See "Defogger switch" (P.2-60).)
12. A/C (air conditioner) button

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF):

The air conditioner does not activate in this mode. Use this mode when you only need to heat.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Push the A/C button. (The indicator light will turn off.)
3. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

NOTE:

- **Do not set the temperature lower than the outside air temperature or the system may not work properly.**
- **Not recommended if windows fog up.**

Dehumidified defrosting or defogging:

1. Push the button. (The indicator light on the button will turn on.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - To quickly remove ice from the outside of the windows, use the button to set the fan speed to maximum.
   - As soon as possible after the windshield is clean, push the AUTO button to return to the automatic mode.

- When the FRONT button is pushed, the air conditioner will automatically be turned on at outside temperatures more than slightly above freezing. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Manual operation

Fan speed control:

Push the buttons to manually control the fan speed.

Air intake control:

The air intake control mode will change each time the button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.
- To switch to automatic control mode, push and hold the button for about 2 seconds. The indicator light will blink, and then the air intake will be controlled automatically.

Air flow control:

Pushing the button manually controls air flow and selects the air outlet:

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from center and side ventilators and foot outlets.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger and foot outlets.

Synchronize temperature settings:

Push the SYNC button to turn on the SYNC mode. (The indicator light on the button will turn on.)

When the SYNC mode is active, the driver's side temperature control dial will control the driver's and front passenger's side temperatures.

To exit the SYNC mode, change the passenger's side temperature using the temperature control dial on the front passenger's side. (The indicator light on the SYNC button will turn off.)

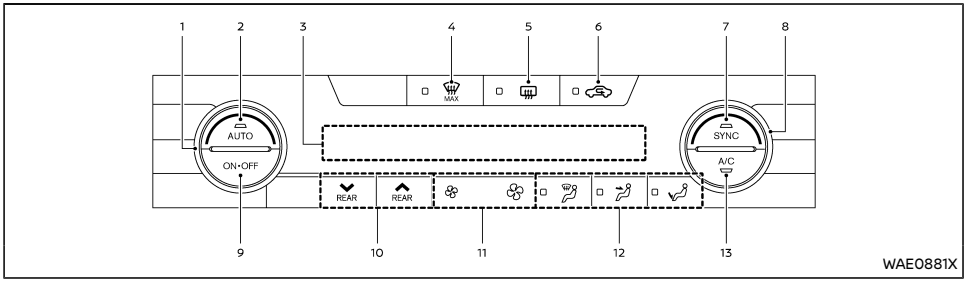
To turn the system off

Push the ON·OFF button.

Remote engine start logic (if equipped)

When the remote engine start function is activated, the vehicles equipped with the automatic air conditioner and heater may go into automatic heating or cooling mode depending on the outside and cabin temperatures. During this period, the display and the buttons will be inoperable until the ignition switch is placed in the "ON" position. When the temperature is low, the rear defogger and the heated steering wheel (if equipped) may also be activated automatically with the activation of the remote engine start function. (See "Remote engine start" (P.3-19).)

AUTOMATIC AIR CONDITIONER (models with rear control) (Type A)



Example

1. Temperature control dial (driver's side)
2. AUTO (automatic) button
3. Display screen
4. MAX (front defogger MAX) button
5. (rear window defogger) button (See "Defogger switch" (P.2-60).)
6. (air recirculation) button
7. SYNC (synchronize) button
8. Temperature control dial (passenger's side)
9. ON·OFF button
10. Rear temperature control buttons
11. (fan speed control) buttons
12. Air flow control buttons
13. A/C (air conditioner) button

The layout of the buttons may vary depending on the models and specifications.

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF):

The air conditioner does not activate in this mode. Use this mode when you only need to heat.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Push the A/C button. (The indicator light will turn off.)
3. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

NOTE:

- **Do not set the temperature lower than the outside air temperature or the system may not work properly.**
- **Not recommended if windows fog up.**

MAX defrosting/defogging:

Push the MAX button to turn on the MAX defogging/defrosting mode and quickly defog/defrost the windshield. When this mode is turned on, the fan will be at its maximum speed, the A/C indicator light will turn on, and the air circulation will be fixed at the outside air circulation mode.

Do not set the temperature too low when the front defogger mode is on (the indicator light on the MAX button is illuminated), because doing so may fog up the windshield.

Manual operation

Fan speed control:

Push the buttons to manually control the fan speed.

Air intake control:

The air intake control mode will change each time the button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.
- To switch to automatic control mode, push and hold the button for about 2 seconds. The indicator light will blink, and then the air intake will be controlled automatically.

Air flow control:

Push one of the air flow control buttons to select the air flow outlets.

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger.

Synchronize temperature settings:

Push the SYNC button to turn on the SYNC mode. (The indicator light on the button will turn on.)

When the SYNC mode is active, the driver's side temperature control dial will control the driver's side, front passenger's side and rear temperatures.

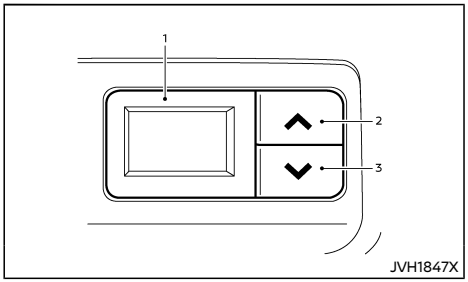
When the passenger's side temperature control dial or the rear temperature control buttons are operated, it will cancel the SYNC mode of the individual zone. (The indicator light on the SYNC button will remain on.)

Operating both the passenger's side temperature control dial and the rear temperature control buttons will turn off the SYNC mode. (The indicator light on the SYNC button will turn off.) (See "Rear temperature control" (P.4-32).)

To turn the system off

Push the ON·OFF button.

Rear temperature control (if equipped)



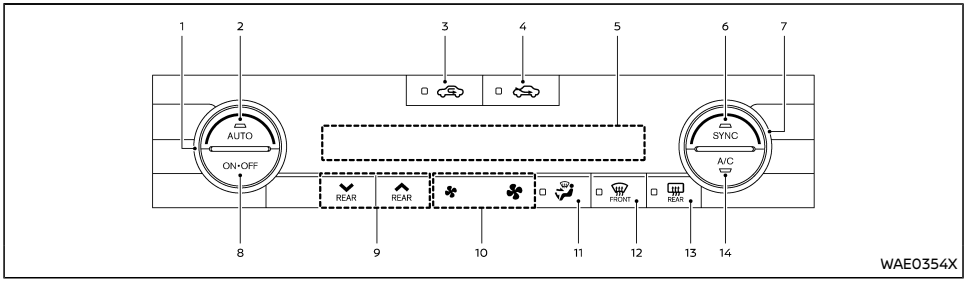
1. Rear temperature display
2. " ∧ " Rear temperature increase button
3. " ∨ " Rear temperature decrease button

You can adjust the temperature for rear seat passengers using the buttons located on the back side of the console box.

Remote engine start logic (if equipped)

When the remote engine start function is activated, the vehicles equipped with the automatic air conditioner and heater may go into automatic heating or cooling mode depending on the outside and cabin temperatures. During this period, the display and the buttons will be inoperable until the ignition switch is placed in the "ON" position. When the temperature is low, the rear defogger and the heated steering wheel (if equipped) may also be activated automatically with the activation of the remote engine start function. (See "Remote engine start" (P.3-19).)

AUTOMATIC AIR CONDITIONER (models with rear control) (Type B)



Example

1. Temperature control dial (driver's side)
2. AUTO (automatic) button
3. (air recirculation) button
4. (outside air circulation) button
5. Display screen
6. SYNC (synchronize) button
7. Temperature control dial (passenger's side)
8. ON·OFF button
9. Rear temperature control buttons
10. (fan speed control) buttons
11. (air flow control) button
12. (front defogger) button
13. (rear window defogger) button
    (See "Defogger switch" (P.2-60).)
14. A/C (air conditioner) button

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round as the system automatically works to keep a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

Heating (A/C OFF):

The air conditioner does not activate in this mode. Use this mode when you only need to heat.

1. Push the AUTO button on. (The indicator light on the button will illuminate.)
2. Push the A/C button. (The indicator light will turn off.)
3. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - You can individually set temperatures for the driver's side and front passenger's side when the indicator light on the SYNC button is not illuminated.
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

NOTE:

- **Do not set the temperature lower than the outside air temperature or the system may not work properly.**
- **Not recommended if windows fog up.**

Dehumidified defrosting or defogging:

1. Push the button. (The indicator light on the button will come on.)
2. Turn the temperature control dial on the corresponding side to set the desired temperature.
   - To quickly remove ice from the outside of the windows, use the button to set the fan speed to maximum.
   - As soon as possible after the windshield is clean, push the AUTO button to return to the automatic mode.

- When the FRONT button is pushed, the air conditioner will automatically be turned on at outside temperatures more than slightly above freezing. The air recirculation mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Manual operation

Fan speed control:

Push the buttons to manually control the fan speed.

Air intake control:

- Push the button to recirculate interior air inside the vehicle. The indicator light on the button will come on.
- Push the button to draw outside air into the passenger compartment. The indicator light on the button will come on.
- To control the air intake automatically, push and hold either the button or the button. The indicator light will blink, and then the air intake will switch to automatic control. When the automatic control is set, the system automatically alternates between the outside air circulation and the air recirculation modes. (The indicator light of the active mode will turn on.)

Air flow control:

Pushing the button manually controls air flow and selects the air outlet:

- — Air flows mainly from center and side ventilators.
- — Air flows mainly from center and side ventilators and foot outlets.
- — Air flows mainly from the foot outlet and partly from the defogger.
- — Air flows mainly from the defogger and foot outlets.

Synchronize temperature settings:

Push the SYNC button to turn on the SYNC mode. (The indicator light on the button will turn on.)

When the SYNC mode is active, the driver's side temperature control dial will control the driver's side, front passenger's side and rear temperatures.

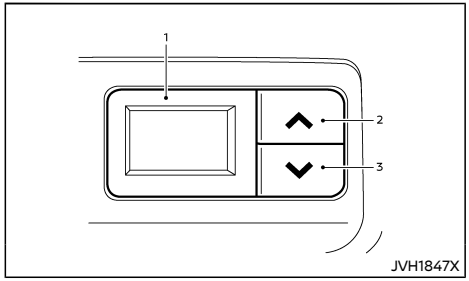
When the passenger's side temperature control dial or the rear temperature control buttons are operated, it will cancel the SYNC mode of the individual zone. (The indicator light on the SYNC button will remain on.)

Operating both the passenger's side temperature control dial and the rear temperature control buttons will turn off the SYNC mode. (The indicator light on the SYNC button will turn off.) (See "Rear temperature control" (P.4-34).)

To turn the system off

Push the ON·OFF button.

Rear temperature control



1. Rear temperature display
2. " ∧ " Rear temperature increase button
3. " ∨ " Rear temperature decrease button

You can adjust the temperature for rear seat passengers using the buttons located on the back side of the console box.

Remote engine start logic

When the remote engine start function is activated, the vehicles equipped with the automatic air conditioner and heater may go into automatic heating or cooling mode depending on the outside and cabin temperatures. During this period, the display and the buttons will be inoperable until the ignition switch is placed in the ON position. When the temperature is low, the rear defogger and the heated steering wheel (if equipped) may also be activated automatically with the activation of the remote engine start function. (See "Remote engine start" (P.3-19).)

SERVICING AIR CONDITIONER

WARNING:

The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with the proper equipment.

The air conditioner system in your vehicle is charged with a refrigerant designed with the environment in mind.

This refrigerant will not harm the earth's ozone layer. However, it may contribute in a small part to global warming.

Special charging equipment and lubricant are required when servicing your vehicle's air conditioner. Using improper refrigerants or lubricants will cause severe damage to the air conditioner system. (See "Air conditioner system refrigerant and lubricant" (P.9-5).)

A NISSAN dealer will be able to service your environmentally friendly air conditioner system.

Air conditioner filter

The air conditioner system is equipped with an air conditioner filter. To make sure the air conditioner heats, defogs, and ventilates efficiently, replace the filter according to the specified maintenance intervals listed in a separate maintenance booklet. It is recommended to visit a NISSAN dealer to replace the filter.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioner.

Models with NissanConnect System:

Refer to the separate NissanConnect Owner's Manual.

AUDIO OPERATION PRECAUTIONS

WARNING:

Do not adjust the audio system while driving so that full attention may be given to vehicle operation.

The audio system operates when the ignition switch is placed in the "ON" position. Do not use for an extended period of time with the engine stopped.

Radio

- Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.
- Using a cellular phone in or near the vehicle may influence radio reception quality.
- Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.
- Use the antenna for the best reception.

USB (Universal Serial Bus) connection port

WARNING:

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

CAUTION:

- **Do not force the USB device into the USB connection port. Inserting the USB device tilted or up-side-down into the USB connection port may damage the USB connection port. Make sure that the USB device is connected correctly into the USB connection port. (Some USB devices come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the device.)**
- **Do not grab the USB connection port cover (if equipped) when pulling the USB device out of the USB connection port. This could damage the USB connection port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the USB connection port.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some states/area, the USB device for the front seats plays only sound without images for

regulatory reasons, even when the vehicle is parked.

This system supports various USB memory devices, USB hard drives and iPod players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not be played correctly.
- Some characters used in other languages (Arabic, Japanese, etc.) are not displayed properly on display. Using English language characters with a USB device is recommended.

General notes for USB use:

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

Notes for iPod use:

"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

iPad, iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. Lightning is a trademark of Apple Inc.

- NISSAN audio system supports only accessories that Apple has certified and that come with the "Made for iPod/iPhone/iPad" logo.
- Improperly plugging in the iPod may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod is connected properly.
- An iPod nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod.
- An iPod nano (2nd Generation) will continue to fast-forward or rewind if it is disconnected during a seek operation.
- An incorrect song title may appear when the play mode is changed while using an iPod nano (2nd Generation).
- Audiobooks may not play in the same order as they appear on an iPod.

Bluetooth® audio player

- Wireless LAN (Wi-Fi) and the Bluetooth® functions share the same frequency band (2.4 GHz). Using the Bluetooth® and the wireless LAN functions at the same time may slow down or disconnect communication and cause undesired noise. It is recommended that you turn off the wireless LAN (Wi-Fi) when using the Bluetooth® functions.
- Some Bluetooth® audio devices may not be used with this system. For detailed information about Bluetooth® audio devices that are available for use with this system, contact a NISSAN dealer.
- Before using a Bluetooth® audio system, the initial registration process for the audio device is necessary.
- Operation of the Bluetooth® audio system may vary depending on the audio device that is connected. Confirm the operation procedure before use.
- The playback of Bluetooth® audio will be paused under the following conditions. The playback will be resumed after the following conditions are completed.
  — while using a hands-free phone
  — while checking a connection with a cellular phone
- The in-vehicle antenna for Bluetooth® communication is built in the system. Do not place the Bluetooth® audio device in an area surrounded by metal, far away from the system or in a narrow space where the device closely contacts the body or the seat. Otherwise, sound degradation or connection interference may occur.
- While a Bluetooth® audio device is connected through the Bluetooth® wireless connection, the battery power of the device may discharge quicker than usual.
- This system is compatible with the Bluetooth® AV profile (A2DP and AVRCP).

Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon Corporation.

USB device with MP3/WMA/AAC

Terms:

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near "CD quality" sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD can reduce the file size by approximately 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear

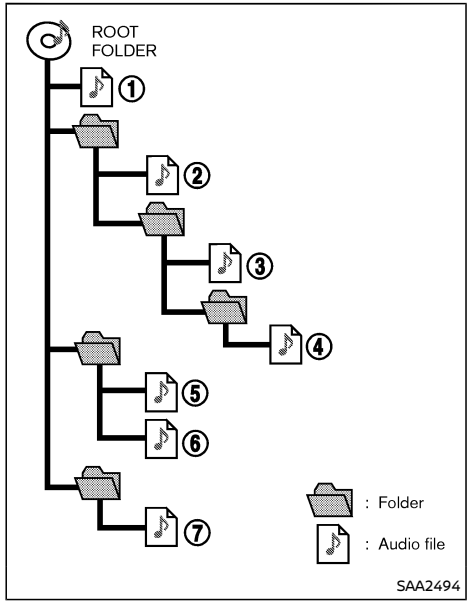
doesn't hear.

- WMA — Windows Media Audio (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.

  This product is protected by certain intellectual property rights of Microsoft Corporation and third parties. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary and third parties.
- AAC — Advanced Audio Coding (AAC) is a compressed audio format. AAC offers greater file compression than MP3 and enables music file creation and storage at the same quality as MP3.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music files. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, album title, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Album/Artist/Track title line on the display.

* Windows® and Windows Media® are registered trademarks and/or trademarks of Microsoft Corporation in the United States of America and/or other countries.

Playback order:



Music playback order of the USB device with MP3/WMA/AAC is as illustrated above.

- The folder names not containing MP3/WMA/AAC files are not shown in the display.
- If there is a file in the top level of the device, "Root Folder" is displayed.
- The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.

Specification chart:

Supported media			USB2.0
Supported file systems			ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet * ISO9660 Level 3 (packet writing) is not supported. * Files saved using the Live File System Component (on a Windows Vista-based computer) are not supported.
Supported versions*1	MP3	Version	MPEG1, MPEG2
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	32 kbps - 448 kbps, VBR*4
	WMA*3	Version	WMA7, WMA8, WMA9, WMA9 Pro (except WMA9 Lossless, WMA9 Voice)
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	5 kbps - 320 kbps, VBR*4
	AAC	Version	MPEG4 – AAC
		Sampling frequency	8 kHz - 48 kHz
		Bit rate	32 kbps - 192 kbps, VBR*4
Tag information (Song title and Artist name)			ID3 tag VER1.0, VER1.1, VER2.2, VER2.3, VER2.4 (MP3 only)
			WMA tag (WMA only)
Folder levels			Folder levels: 8, Folders: 2500 (including root folder), Files: 32000
Displayable character codes*2			01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian)

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.

*2 Available codes depend on what kind of media, versions and information are going to be displayed.

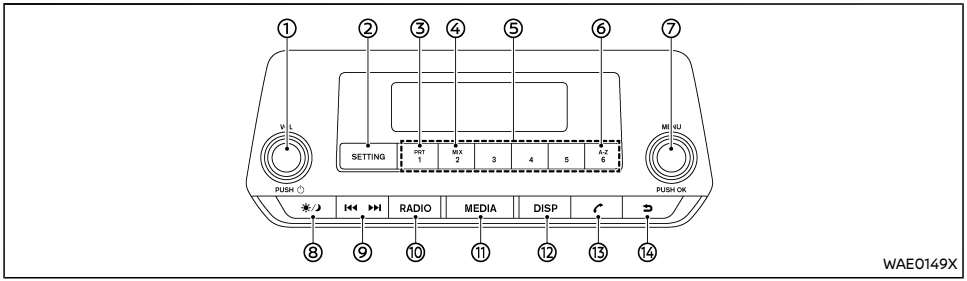
*3 Protected WMA files (DRM) cannot be played.

*4 When VBR files are played, the playback time may not be displayed correctly. WMA7 and WMA8 are not applied to VBR.

Troubleshooting guide:

Symptom	Cause and Countermeasure
Cannot play	USB device was inserted incorrectly.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a mixture of music files and compressed audio files on a USB device, only the music files will be played.
	Files with extensions other than ".MP3", ".WMA", ".M4A", ".mp3", ".wma" or ".m4a" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications.
	Check if the USB device is protected by copyright.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the MP3/WMA/AAC files, some time may be required before the music starts playing.
	If there are many folder or file levels on the USB device, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications of the system. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Move immediately to the next song when playing.	When a non-MP3/WMA/AAC file has been given an extension of ".MP3", ".WMA", ".M4A", ".mp3", ".wma" or ".m4a" when play is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.
	Random/Shuffle may be active on the audio system or on a USB device.

FM-AM RADIO WITH USB (Universal Serial Bus) CONNECTION PORT



1. Power/VOL (Volume) dial
2. SETTING button
3. RPT (Repeat) button
4. MIX button
5. Station memory buttons
6. A-Z button
7. OK/MENU dial
8. Day/Night button
9. Seek/Track button
10. RADIO button
11. MEDIA button
12. DISP (Display) button
13. Phone button
14. Back button

Audio main operation

The audio system operates when the ignition switch is placed in the "ON" or "ACC" position.

Power/VOL dial:

Power ON/OFF

To turn on the audio system, push the Power/VOL dial.

The system will turn on in the mode, which was used immediately before the system was turned off.

To turn off the audio system, push the Power/VOL dial.

Volume control

To control the volume, turn the Power/VOL dial.

Turn the Power/VOL dial clockwise to make the sound louder.

Turn the Power/VOL dial counterclockwise to make the sound quieter.

Back button:

Push to return to the previous screen.

SETTING button:

To configure Audio, Clock, Radio or Language settings, perform the following procedure:

1. Push the SETTING button.
2. Turn the OK/MENU dial clockwise or counterclockwise. The display changes in the following order:

   Audio ⇔ Clock ⇔ Radio ⇔ Language
3. Push the OK/MENU dial to select the item.

After making the setting adjustments, push the Back button repeatedly or push the SETTING button.

Audio adjustments:

Push the SETTING button to display the setup menu screen. Turn the OK/MENU dial to highlight the "Audio" key and then push the OK/MENU dial.

The mode can be changed as follows by turning the OK/MENU dial:

Sound ⇔ Speed Vol. ⇔ Bass Boost ⇔ Audio Reset

Push the OK/MENU dial to select the highlighted menu.

Turn the OK/MENU dial clockwise or counterclockwise to adjust the following items and push the OK/MENU dial to confirm.

Sound menu

Bass:

Use this control to enhance or attenuate bass response sound.

Treble:

Use this control to enhance or attenuate the

treble.

Bal.:

Use this control to adjust the balance of the volume between the left and right speakers.

Fade:

Use this control to adjust the balance of the volume between the front and the rear speakers.

Speed Vol. menu

This mode controls the volume output from the speakers automatically in relation to vehicle speed.

Adjusting the setting to OFF turns off the speed volume feature.

Bass Boost menu

Turn on or off the Bass Boost feature which emphasizes the lower audio frequencies.

Clock setting:

Push the SETTING button to display the setup menu screen. Turn the OK/MENU dial to highlight the "Clock" key and then push the OK/MENU dial.

Turn the OK/MENU dial, and the mode will change as follows:

Set Time ⇔ ON/OFF ⇔ Format

Set Time

Select "Set Time" then adjust the clock as follows:

The hour display will start flashing. Turn the OK/MENU dial to adjust the hour and push the OK/MENU dial. The minute display will start flashing. Turn the OK/MENU dial to adjust the minute and push the OK/MENU dial to finish the clock adjustment.

ON/OFF

The clock display setting can be turned on and off. When the setting is turned on, the clock will be displayed. (The clock will keep being displayed even after the power of the audio unit is turned off.) When the setting is turned off, the clock will not be displayed.

Format

Switch the clock display between 24-hour clock mode and 12-hour clock mode.

The clock may also be set in the vehicle information display. See "Clock" (P.2-25).

Radio setting:

Push the SETTING button to display the setup menu screen. Turn the OK/MENU dial to highlight the "Radio" key and then push the OK/MENU dial. Use the OK/MENU dial to select a mode.

TA (if equipped)

Use this control to switch Traffic Announcements on or off when the unit starts.

Turn the OK/MENU dial clockwise or counterclockwise to select then push the OK/MENU dial to confirm.

DAB Interrupt (if equipped)

Switch on or off specific listed Digital Interruptions. When selected the Digital Audio Broadcasting (DAB) radio stations will be interrupted if a specific message is available.

Turn the OK/MENU dial clockwise or counterclockwise to adjust then push the OK/MENU dial to select.

Ref. DAB List (if equipped)

Select this mode to manually update the DAB station list.

Press the OK/MENU dial to start the search of the stations. A confirmation message appears. In a short period of time the stations are updated and the last station (if possible) starts playing.

Ref. FM list

Select this mode to refresh the FM station list.

EPG (if equipped)

Electronic Program Guide (EPG) for DAB is designed to offer similar features for the user as television EPG, but for radio and associated data services, for example:

- display of schedules with programs and events
- searching through current and future programs lists

Intellitext (if equipped)

Intellitext messages are a special format of DL (Dynamic Label) messages that provide data like sport or news.

Language setting:

Push the SETTING button to display the setup menu screen. Turn the OK/MENU dial to highlight the "Language" key and then push the OK/MENU dial.

Select the appropriate language and push the OK/MENU dial. Upon completion, the screen will automatically adapt the language setting.

 **Day/Night button:**

Push the Day/Night button to switch the display brightness between the daytime and nighttime modes.

The buttons on the audio unit will also illuminate in the nighttime mode.

MEDIA button:

Push the MEDIA button to play a compatible device when it is connected.

Each time the MEDIA button is pushed, the audio source will change as follows:

USB/iPod →BT Audio → USB/iPod

The source that are not available will be skipped.

Phone button:

See "Bluetooth® Hands-Free Phone System" (P.4-48).

Radio operation

The audio system operates when the ignition switch is placed in the "ON" or "ACC" position.

Frequency range and step change (if equipped):

To change the frequency range and step specification of the radio, perform the following operations.

1. Turn on the audio system.
2. Push the RADIO button and select AM or FM mode.
3. Push and hold the SETTING button for more than 3 seconds.
4. After 3 seconds, keep holding the SETTING button and turn the OK/MENU dial counterclockwise until you hear 3 clicks, clockwise until you hear 3 clicks, and then counterclockwise until you hear 3 clicks.
5. Turn the OK/MENU dial until "Region" is highlighted, and push the OK/MENU dial.
6. Select an appropriate region and push the OK/MENU dial.
7. To apply the setting, turn off the audio system, place the ignition switch in the "OFF" position. Then, once open and close the driver's door, and keeping the door closed, wait for more than 2 minutes. After that, open and close the door, and place the ignition switch in the "ON" position.

If the frequency range and step specification cannot be changed, it is recommended to contact a NISSAN dealer.

RADIO button:

When the RADIO button is pushed while another audio source is playing, the other audio source will turn off and the radio will turn on.

To change the radio bands, push the RADIO button until the desired band appears.

For models with DAB:

FM 1 → FM 2 → DAB1 → DAB2 → AM → FM 1

For models without DAB:

FM 1 → FM 2 → AM → FM 1

Pushing and holding the RADIO button will update the station lists.

Seek/Track button:

Push the Seek/Track button briefly to manually change the frequency.

To adjust the broadcasting station frequency automatically, push and hold the Seek/Track button. When the system detects a broadcasting station, it will stop at the station.

FM mode:

Pushing the Seek/Track button starts the tuning mode. A short push of the button will increase or decrease the frequency a single step. Pushing the button longer will activate the seek mode. The radio tuner seeks from low to high or high to low frequencies and stops at the next broadcasting station. During seek mode, the audio output is muted. If no broadcasting station can be found within the complete band cycle, it will return to the initial frequency.

DAB mode:

Push the Seek/Track button to select the next or previous station. A long press triggers seek by ensemble.

Station memory buttons:

During radio reception, pushing the station memory button for less than 2 seconds will select the stored radio station.

For models with DAB

The audio system can store up to 12 FM station frequencies (6 in each of FM 1 and FM 2), 6 AM station frequencies and 12 DAB station frequencies (6 in each of DAB 1 and DAB 2).

For models without DAB

The audio system can store up to 12 FM station frequencies (6 in each of FM 1 and FM 2) and 6 AM station frequencies.

To store the station frequency manually:

1. Tune to the desired broadcasting station frequency.
2. Push and hold a station memory button 1 - 6 until a beep sounds.

3. The station memory number will be displayed, indicating that the memory is stored properly.
4. Perform steps 1 - 3 for all other memory buttons.

Radio Data System (RDS) operation (if equipped):

The RDS is a system through which encoded digital information is transmitted by FM radio stations in addition to the normal FM radio broadcasting. The RDS provides information services such as station name, traffic information, or news.

Digital Audio Broadcast (if equipped):

DAB (Digital Audio Broadcasting) is a standard for digital radio broadcast.

Various information selected by the driver (Travel, Warning, News, Weather, Sport, etc.) can be received and will be provided to the driver.

Occasionally, in areas of poor DAB signal strength, the full station name in the DAB List and DAB main screen might be distorted. In this situation it may still be possible to listen to the particular radio station, at a reduced level of sound quality, but this is not always possible.

NOTE:

- **When in DAB mode, operation is similar to FM mode but may slightly differ.**
- **In some countries or regions, some of these services may not be available.**

Alternative Frequency (AF) mode:

The AF mode operates in the FM (radio) mode.

- The AF mode operates in the FM (radio), and will continue to operate in the background if any media source is selected.
- The AF function compares signal strengths and selects the station with the optimum reception conditions for the currently tuned-in station.

Programme Service (PS) function (station name display function):

- FM:
  When an RDS station is tuned in with seek or manual tuning, the RDS data is received and the PS name is displayed.
- DAB:
  When a station is tuned in with seek or manual tuning, the data is received and the PS name is displayed.

TA (Traffic announcement) (if equipped):

This function operates in FM/DAB (Radio) mode. This function will still operate in the background if any media source is selected.

Traffic announcement interrupt function:

When a traffic announcement is received, the announcement is tuned in and the display shows a notification message with the radio station name. Once the traffic announcement has finished, the unit returns to the source that was active before the traffic announcement started.

If the Back button is pushed during a traffic announcement, the traffic announcement interrupt mode is cancelled. The TA mode returns to the standby mode and the audio unit returns to the previous source.

USB (Universal Serial Bus) connection port

USB device main operation:

The USB connection port is located on the lower part of the instrument panel. See "USB (Universal Serial Bus) connection port" (P.4-46). Connect a USB memory device into the USB connection port. The USB memory device will be activated automatically.

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

If the system has been turned off while the USB memory device was playing, pushing the Power/VOL dial will start the USB memory device.

MEDIA button:

To operate the USB memory device, push the MEDIA button repeatedly until the USB mode is selected.

List view:

While the track is being played, push the OK/MENU dial to display the available tracks in a listed view mode. To select a track from the list, turn the OK/MENU dial and then push the OK/MENU dial.

Quick search:

In the list view mode, a quick search can be performed to find a track from the list. Push the A-Z button, turn the OK/MENU dial to the first alphabetic letter of the song title and then push the OK/MENU dial. When found, a list of the available songs will be displayed. Select a preferred track and push the OK/MENU dial to play the track.

Seek/Track button:

Push and hold the Seek/Track button to fast forward or rewind through the track. When the button is released, the track will play at normal playing speed.

Track up/down:

Pushing the Seek/Track button once, the track will skip forward to the next track or backward to the beginning of the current track. Push the Seek/Track button more than once to skip through the tracks.

Folder browsing:

To select a preferred folder:

1. Push the OK/MENU dial and then push the Back button to display a list of folders.
2. Turn the OK/MENU dial to highlight the preferred folder.
3. Push the OK/MENU dial to access the folder.
4. Push the OK/MENU dial again to start playing the first track in the selected folder. To select another track in the folder, turn the OK/MENU dial until a preferred track is highlighted and then push the OK/MENU dial.

If the currently selected folder contains sub folders, push the OK/MENU dial and a new screen with a list of sub folders will be displayed. Turn the OK/MENU dial and then push the OK/MENU dial to select a sub folder. Select the root folder item when songs are recorded additionally in the root folder.

To return to the previous folder screen, push the Back button.

RPT button:

Push the RPT button and the current track will be played continuously.

MIX button:

Push the MIX button and all the tracks in the selected folder will be played in a random order.

DISP button:

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed.

When the DISP button is pushed repeatedly, further information about the track can be displayed along with the track title as follows:

Track time → Artist → Album → Track time

Track details:

Pushing and holding the DISP button will turn the display into a detailed overview. Push the Back button to return to the display for the main display mode.

iPod player operation

Connecting iPod:

The USB connection port is located on the lower part of the instrument panel. See "USB (Universal Serial Bus) connection port" (P.4-46).

When the iPod is connected to the vehicle, the iPod music library can only be operated by the vehicle audio controls.

If your iPod supports charging via a USB connection, its battery will be charged while connected to the vehicle with the ignition switch in the "ON" position.

Compatibility:

The system unit shall be compatible with all devices (past and future) supporting Apple Accessory Protocol on USB link.

It includes (and not limited to):

- iPod touch 5th (iOS 9.3.5)
- iPhone 7 Plus (iOS 10.1.1, 11.0.3, 11.1.2)
- iPhone 8 (iOS 11.2)
- iPhone 8 Plus (iOS 11.2.5)
- iPhone X (iOS 11.2, 12.0.1)

NOTE:

This audio system does not support iPad charging.

MEDIA button:

To operate the iPod, push the MEDIA button repeatedly until the USB/iPod mode is selected and then push the OK/MENU dial.

List view:

While the track is being played, push the OK/MENU dial to display the iPod menu.

iPod main operation:

Interface:

The interface for iPod operation shown on the audio system display is similar to the iPod interface. Use the OK/MENU dial to play a track on the iPod.

The following items can be chosen from the menu list screen.

- Playlists
- Artists
- Albums
- Songs

- More...

For further information about each item, see the iPod owner's manual.

Quick search:

In the list view mode, a quick search can be performed to find a track from the list. Push the A-Z button, turn the OK/MENU dial to the first alphabetic letter of the song title and then push the OK/MENU dial. When found, a list of the available songs will be displayed. Select a preferred track and push the OK/MENU dial to play the track.

▶▶| |◀◀ Seek/Track button:

Push and hold the Seek/Track button to fast forward or rewind through the track. When the button is released, the track will play at normal playing speed.

Track up/down:

Pushing the Seek/Track button once, the track will skip forward to the next track or backward to the beginning of the current track. Push the Seek/Track button more than once to skip through the tracks.

RPT RPT button:

Push the RPT button and the current track/folder will be played continuously.

MIX MIX button:

Push the MIX button and all the tracks in the selected playlist will be played in a random order.

DISP DISP button:

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed.

When the DISP button is pushed repeatedly, further information about the track can be displayed along with the track title as follows:

Track time → Artist → Album → Track time

Track details:

Pushing and holding the DISP button will turn the display into a detailed overview. To return to the main display, push the Back button.

Bluetooth® audio player operation

Regulatory information:

Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon Corporation.

NOTE:

The audio system only supports Bluetooth® devices with AVRCP (Audio Video Remote Control Profile) version 1.3, or 1.0 or earlier.

Bluetooth® audio player main operation:

To play Bluetooth® audio, the Bluetooth® audio device needs to be paired to the in-vehicle system. See "Setting items" (P.4-49).

MEDIA MEDIA button:

To operate the Bluetooth® audio streaming, push the MEDIA button repeatedly until "BT Audio" is shown.

The type of display shown on the audio system can vary depending on the Bluetooth® version of the device.

▶▶| |◀◀ Seek/Track button:

Push and hold the Seek/Track button to fast forward or rewind through the track. When the button is released, the track will play at normal playing speed.

Track up/down:

Pushing the Seek/Track button once, the track will skip forward to the next track or backward to the beginning of the current track. Push the Seek/Track button more than once to skip through the tracks.

RPT RPT button:

Push the RPT button and the current track/folder will be played continuously.

MIX MIX button:

Push the MIX button and all the tracks in the selected playlist will be played in a random order.

DISP DISP button:

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed.

When the DISP button is pushed repeatedly, further information about the track can be displayed along with the track title.

Track details:

Pushing and holding the DISP button will turn the display into a detailed overview. To return to the main display, push the Back button.

OK/MENU dial:

When the OK/MENU dial is pushed while operating Bluetooth® audio, the following menus will be available. (Available menus may vary depending on the connected device.) Use the OK/MENU dial to highlight and select a preferred menu.

Playlists

An interface similar to the one on the connected iPod is displayed.

Radio

This menu is displayed only when iPhone is connected. Radio stations downloaded to the iPhone via music app are displayed.

USB (Universal Serial Bus) CONNECTION PORT

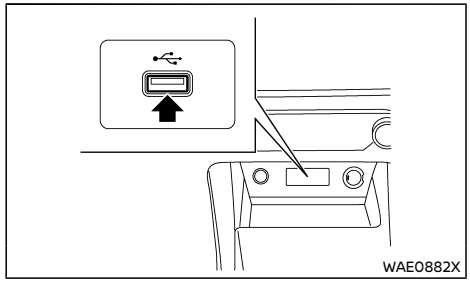
WARNING:

Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.

CAUTION:

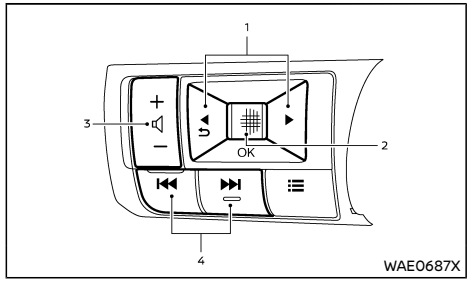
- **Do not force the USB device into the USB connection port. Inserting the USB device tilted or up-side-down into the USB connection port may damage the USB connection port. Make sure that the USB device is connected correctly into the USB connection port.**
- **Do not grab the USB connection port cover (if equipped) when pulling the USB device out of the USB connection port. This could damage the USB connection port and the USB connection port cover (if equipped).**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the USB connection port.**

Refer to your device manufacturer's owner information regarding the proper use and care of the device.



The USB connection port is located on the lower part of the instrument panel. Insert USB devices or iPod connectors into this port.

STEERING-WHEEL-MOUNTED CONTROLS FOR AUDIO



1. Menu control buttons
2. Scroll dial
3. Volume control button
4. Seek/Track buttons

The audio system can be operated using the controls on the steering wheel. Some functions may not be available depending on the connected audio device and other conditions.

Menu control buttons/scroll dial

Push the ◀ / ▶ buttons and switch the vehicle information display to the audio mode. Push the scroll dial to display available audio source menus.

Scroll the scroll dial to highlight a preferred audio source and then push it to select the audio source.

Volume control button

Push the + or – side of the button to increase or decrease the volume.

▶▶| |◀◀ Seek/Track buttons

- **RADIO**
  - — Pushing ▶▶| / |◀◀ shorter
    Next or previous station
  - — Pushing ▶▶| / |◀◀ longer
    Next or previous available preset station
- **USB device, iPod or Bluetooth® audio**
  - — Pushing ▶▶| / |◀◀ shorter
    Next track or the beginning of the current track (the previous track if the button is pushed immediately after the current track starts playing)
  - — Pushing ▶▶| / |◀◀ longer
    Forward or rewind

USB DEVICE CARE

- Do not touch the terminal portion of the USB device.
- Do not place heavy objects on the USB device.
- Do not store the USB device in highly humid locations.
- Do not expose the USB device to direct sunlight.
- Do not spill any liquids on the USB device.

Refer to the USB device Owner's Manual for the details.

RADIO ANTENNA

The antenna is located on the rear part of the vehicle roof.

CAUTION:

- **A build up of ice on the antenna can affect radio performance. Remove the ice to restore radio reception.**
- **When removing snow from the roof, do not apply strong force to the antenna. That may cause broken the antenna and roof panel dent.**
- **When using a high pressure car wash, keep the high pressure nozzle away from the antenna. The seal may be deformed or damaged.**
- **The radio performance may be affected if cargo carried on the roof blocks the radio signal. If possible, do not put cargo near the antenna.**

CAR PHONE OR CB RADIO

When installing a car phone or a CB radio in your vehicle, be sure to observe the following precautions, otherwise the new equipment may adversely affect the electronic control modules and electronic control system harness.

WARNING:

- **A cellular phone should not be used for any purpose while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular phones while driving.**
- **If you must make a call while your vehicle is in motion, the hands-free cellular phone operational mode (if equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.**

CAUTION:

- **Keep the antenna as far away as possible from the electronic control modules.**
- **Keep the antenna wire more than 20 cm (8 in) away from the electronic control system harness. Do not route the antenna wire next to any harness.**
- **Adjust the antenna standing-wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the CB radio chassis to the body.**
- **For details, it is recommended you visit a NISSAN dealer.**

Bluetooth® HANDS-FREE PHONE SYSTEM (if equipped)

Models with NissanConnect System:

Refer to the separate NissanConnect Owner's Manual.

WARNING:

- **Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.**
- **If you find yourself unable to devote full attention to vehicle operation while using the phone, pull off the road to a safe location and stop your vehicle before doing so.**

CAUTION:

To avoid draining the vehicle battery, use a phone after starting the engine.

Bluetooth® is a wireless radio communication standard. This system offers a hands-free facility for your cellular phone to enhance driving comfort.

To use the Bluetooth® Hands-Free Phone System, your cellular phone must first be setup. See "Bluetooth® settings" (P.4-49). Once it has been setup, the hands-free mode is automatically activated on the registered cellular phone (via Bluetooth®) when it comes into range.

A notification message appears on the audio display when the phone is connected, when an incoming call is being received, as well as when a call is initiated.

When a call is active, the audio system, microphone, and steering-wheel-mounted control buttons enable hands-free communication.

If the audio system is in use at the time, the radio, iPod, USB audio or Bluetooth® audio will be muted and will stay muted until the active call has ended.

The Bluetooth® system may not be able to connect with your cellular phone for the following reasons:

- The cellular phone is too far away from the vehicle.
- The Bluetooth® mode on your cellular phone has not been activated.
- Your cellular phone has not been paired with the Bluetooth® system of the audio unit.
- The cellular phone does not support Bluetooth® technology.

NOTE:

- **For details, see your cellular phone's Owner's Manual.**
- **For assistance with your cellular phone integration, visit a NISSAN dealer.**

REGULATORY INFORMATION

Bluetooth® Trademark

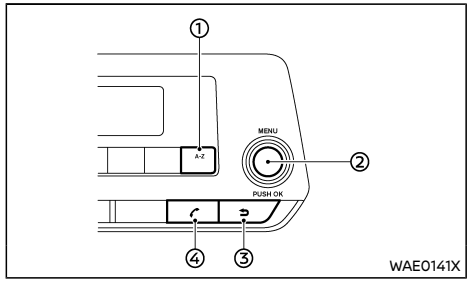
Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Visteon Corporation.

NOTE:

The system only supports Bluetooth® devices with AVRCP (Audio Video Remote Control Profile) version 1.3, or 1.0 or earlier.

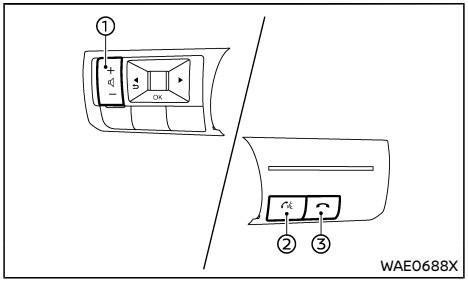
CONTROL BUTTONS AND MICROPHONE

Instrument panel:



① A-Z button
② OK/MENU dial
③ Back button
④ Phone button

Steering-wheel-mounted control:



Example

① Volume control button
② PHONE SEND button
③ PHONE END button

Microphone:

Microphone is located near the map light.

Bluetooth® SETTINGS

Pairing device

Enter the phone setup menu via the button on the instrument panel, select the "Bluetooth" key, and then check if the Bluetooth® is set to on. (Use the OK/MENU dial to turn it on.)

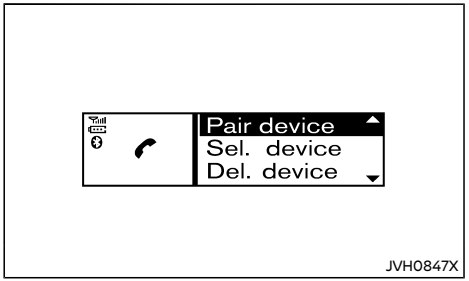
To setup the Bluetooth® system to pair (connect or register) your preferred cellular phone, follow the following procedure.

1. To pair a device, use the "Scan devices" key or the "Pair device" key on the display. See "Setting items" (P.4-49).
2. A notification message will be displayed when the phone is successfully paired.
3. The display will return to the current audio source status after the connection is complete.

- While the Bluetooth® connection is active, the following icons will appear on the display.
  — : Signal strength indicator
  — : Battery status indicator*
  — : Bluetooth® connection ON indicator
  *: If low battery is indicated, the Bluetooth® device must be recharged soon.
- Up to 5 different Bluetooth® devices can be connected. However, only one device can be used at a time. If 5 different Bluetooth® registered devices are registered, a new device can only replace one of the 5 existing paired devices.
- The pairing procedure and operation may vary according to device type and compatibility. See the Bluetooth® device Owner's Manual for further details.

Setting items

To set up the Bluetooth® system with a device, push the button on the instrument panel. The phone menu will be displayed.



Available items:

- Scan devices
  A list of detected Bluetooth® devices is displayed.
- Pair device
  Bluetooth® devices can be paired with the system. A maximum of 5 Bluetooth® devices can be registered.
- Sel. device
  Paired Bluetooth® devices are listed and can be selected for connection.
- Del. device
  A registered Bluetooth® device can be deleted.
- Settings
  Phone setting menus are available. See "General settings" (P.4-53).
- Bluetooth
  If this setting is turned off, the connection between the Bluetooth® devices and the in-vehicle Bluetooth® module will be cancelled.

Scan devices:

1. Push the button on the instrument panel. Select the "Scan devices" key. The audio unit searches for the Bluetooth® devices and shows all devices that were found.
   Make sure your Bluetooth® device is available at this time.
2. Select the device to be paired using the OK/MENU dial.
3. The pairing procedure depends on the device to be connected:
   a. Device without PIN code:
   The Bluetooth® connection will be automatically connected without any further

input.

b. Device with PIN code:

Two different ways of pairing are possible depending on the device:

- Type A:

  The message "To Pair" and "Enter Pin 0000" will be displayed.

  Confirm the PIN code on the device. The Bluetooth® connection will be made.

- Type B:

  The message "Pairing request" and "Confirm password" together with a 6–digit code will be displayed. The unique and identical code should be displayed on the device. If the code is identical confirm on the device.

  The Bluetooth® connection will be made.

Pair device:

1. Turn on the Bluetooth® on the audio unit. See "Bluetooth" (P.4-50).
2. Use the audio unit to pair:

   Push the button on the instrument panel. Select the "Pair device" key.

   The pairing procedure depends on the Bluetooth® device to be connected:

   a. Device without PIN code:

   The Bluetooth® connection will be automatically connected without any further input.

   b. Device with PIN code:

   Two different ways of pairing are possible depending on the device. See "Scan devices" (P.4-49).

3. Use the Bluetooth® audio/cellular phone device to pair:

   a. Switch on the search mode for Bluetooth® devices.

   If the search mode finds the audio unit, it will be shown on the device display.

   b. Select the unit device shown as "My Car".

   c. If required, enter the number code shown on the relevant device with the device's own keypad, and push the confirmation key on the Bluetooth® device.

   The operation may vary depending on the Bluetooth® devices.

Refer to the relevant Bluetooth® device Owner's Manual for further details.

Sel. device:

The paired device list shows which Bluetooth® audio or cellular phone devices have been paired or registered to the system. Select the appropriate device to connect to the system.

The following symbols (if equipped) indicate the capability of the registered device:

- : Cellular phone integration
- : Audio streaming (A2DP – Advanced Audio Distribution Profile)

Del. device:

A registered device can be removed from Bluetooth® system registration. Select a registered device and push the OK/MENU dial to confirm the deletion.

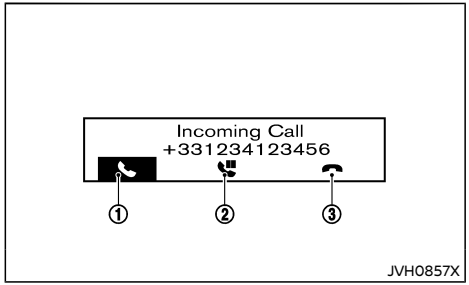
Bluetooth:

The Bluetooth® setting can be turned on and off, using the OK/MENU dial.

USING THE SYSTEM

The hands-free mode can be operated using the button on the instrument panel.

Receiving a call



When receiving an incoming call, the display on the audio unit will show the caller's phone number (or a notification message that the caller's phone number cannot be shown) and operation icons as illustrated. To highlight different icons, turn the OK/MENU dial. Push the OK/MENU dial to select the highlighted icon.

① **Answering and operations during a call:**

Answer the call by selecting " ".

During the call, the following icons are available:

- :
  Select this item to end the call.
- :
  Select this item to put the call on hold.

- : Select this item to transfer the call from the hands-free phone system to your cellular phone.
- : Select this item to transfer the call back to the hands-free phone system from the cellular phone.
- #123: Select this item to enter numbers during a call. For example, use this function when directed by an automated phone system to dial an extension number.

② Putting a call on hold:

To put a call on hold, select " ". Push the OK/MENU dial again to take the call. To reject the call, select the button on the steering wheel.

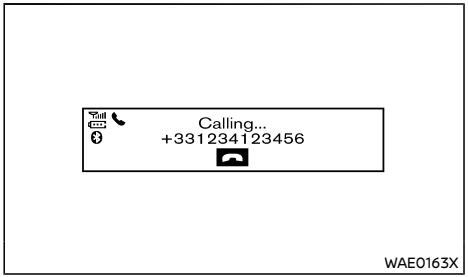
③ Rejecting a call:

To reject an incoming call, select " " or push the button on the steering wheel.

Initiating a call

WARNING:

Park the vehicle in a safe location, and apply the parking brake before making a call.



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A call can be initiated using one of the following methods:

- Making a call from the phonebook
- Manually dialing a phone number
- Redialing
- Using call history
  - — Outgoing
  - — Incoming
  - — Missed

Making a call from the phonebook:

Once the Bluetooth® connection has been made between the registered cellular phone and the hands-free phone system, phonebook data will be transferred automatically to the hands-free phone system. The transfer may take a while before completion.

NOTE:

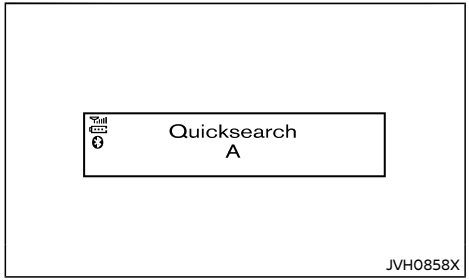
Phonebook data will be erased when:

- **Switching to another registered cellular phone.**
- **Cellular phone is disconnected.**
- **The registered cellular phone is deleted from the audio system.**

1. Push the button on instrument panel.
2. Turn the OK/MENU dial to highlight "Phonebook" and push the OK/MENU dial.
3. Scroll down through the list, select the appropriate contact name (highlighted), and push the OK/MENU dial.
4. The screen will show the number to be dialled. Push the OK/MENU dial to dial the number.

   If more than one number is registered, select an appropriate icon.
   - : Home
   - : Cellular phone
   - : Office

Quick searching the phonebook



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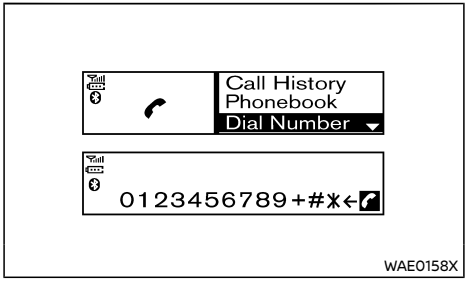
The quick search mode can be used as follows:

1. Push the A-Z button.
2. Turn the OK/MENU dial for the first alphabetic or numerical letter of the contact name. Once highlighted, push the OK/MENU dial to select the letter.
3. The display will show the corresponding contact name(s). Where necessary, use the OK/MENU dial to scroll further for the

appropriate contact name to call.

4. The screen will show the number to be dialled. Push the OK/MENU dial to dial the number.

Manually dialling a phone number:



To dial a phone number manually, perform the following operation:

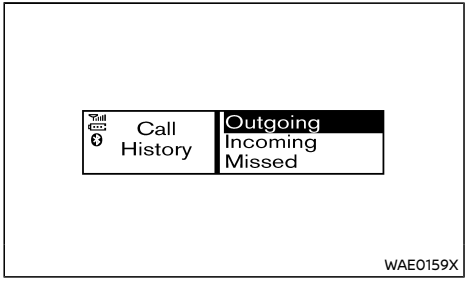
1. Push the button on the instrument panel and turn the OK/MENU dial to highlight "Dial Number".
2. Push the OK/MENU dial to select "Dial Number".
3. Turn the OK/MENU dial to scroll along and highlight each number of the phone number. Push the OK/MENU dial to select the highlighted number.

   To delete the last number entered, scroll to the "←" (Backspace symbol) and once highlighted, push the OK/MENU dial. The last number will be deleted. Pushing the OK/MENU dial repeatedly will delete each subsequent number.
4. After entering the last number, scroll to the "" symbol and push the OK/MENU dial to dial the number.

Redialing:

To redial or call the last number dialled, push and hold the button on the instrument panel or the button on the steering wheel for more than 2 seconds.

Using call history:



A number from the dialled, received, or missed call lists can also be used to make a call.

1. Push the button on the instrument panel and select "Call History" on the display.
2. Turn the OK/MENU dial and scroll to an item, and push the OK/MENU dial to select an item.

   Available items

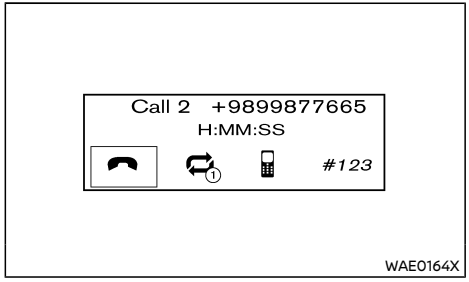
   - Outgoing

     Use the dialled call mode to make a call which is based on the list of outgoing (dialled) calls.
   - Incoming

     Use the received call mode to make a call which is based on the list of received calls.
   - Missed

     Use the missed call mode to make a call which is based on the list of missed calls.
3. Scroll to the preferred phone number and push the OK/MENU dial or button on the instrument panel.

Second incoming call

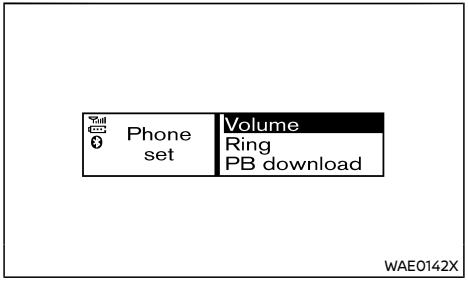


Whenever there is a second incoming call, operation icons for the second incoming call are shown in the display. By selecting "", the call is accepted and the current call is put on hold.

Selecting "" using the OK/MENU dial rejects the second incoming call. When this is done during the conversation, it ends the call.

Selecting "" using the OK/MENU dial switches the call on line between the first and the second call.

General settings



Using the OK/MENU dial, select “Settings” from the phone menu.

Volume settings and manually downloading the phonebook can be done using this menu.

Menu operation:

Turn the OK/MENU dial to change the highlighted item and to change the volume settings.

Push the OK/MENU dial to select the highlighted item and to apply the setting.

Menu items:

- Volume
  - — Ring
    Set the phone ringing volume.
  - — Call
    Set the volume of the conversation during a call.
- Ring
  - — Vehicle
    Switch the ringtone to ring from the vehicle or the cellular phone.
  - — Phone
    Switch the phone ringing volume on or off.
- PB download

  Download the phonebook of the mobile device to the audio unit manually.

MEMO

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BREAK-IN SCHEDULE

CAUTION:

During the first 2,000 km (1,200 miles), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for at least the first 800 km (500 miles) (for Australia, New Zealand, South Africa and Europe).

BEFORE STARTING ENGINE

WARNING:

The driving characteristics of your vehicle will change remarkably by any additional load and its distribution, as well as by adding optional equipment (roof racks, etc.). Your driving style and speed must be adjusted according to the circumstances. Especially when carrying heavy loads, your speed must be reduced adequately.

- Make sure the area around the vehicle is clear.
- Visually inspect tires for their appearance and condition. Measure and check the tire pressure for proper inflation.
- Check that all windows and lights are clean.
- Adjust the seat and head restraint positions.
- Adjust the inside and outside rearview mirror positions.
- Fasten your seat belt and ask all passengers to do the same.
- Check that all doors are closed.
- Check the operation of the warning lights when the ignition switch is placed in the "ON" position.
- Maintenance items in the "8. Maintenance and do-it-yourself" section should be checked periodically.

PRECAUTIONS WHEN STARTING AND DRIVING

WARNING:

- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

NOTE:

During the first few months after purchasing a new vehicle, if you smell strong odors of Volatile Organic Compounds (VOCs) inside the vehicle, ventilate the passenger compartment thoroughly. Open all the windows before entering or while in the vehicle. In addition, when the temperature in the passenger compartment rises, or when the vehicle is parked in direct sunlight for a period of time, turn off the air recirculation mode of the air conditioner and/or open the windows to allow sufficient fresh air into the passenger compartment.

EXHAUST GAS (carbon monoxide)

WARNING:

- **Do not breathe exhaust gas; it contains colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**
- **If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.**
- **Do not run the engine in closed spaces such as a garage.**
- **Do not park the vehicle with the engine running for an extended period of time.**
- **Keep the back door closed while driving, otherwise exhaust gas could be drawn into the passenger compartment. If you must drive with the back door open, follow these precautions:**
  - **— Open all the windows.**
  - **— Turn the air recirculation mode off and set the fan speed control to the highest level to circulate the air.**
- **If a special body or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. (Some recreational vehicle appliances such as stoves, refrigerators, heaters, etc. may also generate carbon monoxide.)**
- **If electrical wiring or other cable connections must pass to a trailer through the seal on the back door or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  - **— Your vehicle is raised while being serviced.**
  - **— You suspect that exhaust fumes are entering into the passenger compartment.**
  - **— You notice a change in the sound of the exhaust system.**
  - **— You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.**

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

WARNING:

- **The exhaust gas and the exhaust system are very hot. Keep people, animals and flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, wastepaper or rags. They may ignite and cause a fire.**

CAUTION:

- **Do not use leaded gasoline. Deposits from leaded gasoline will seriously reduce the three-way catalyst's ability to help reduce exhaust pollutants.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected. It is recommended you visit a NISSAN dealer for this service.**
- **Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.**
- **Do not race the engine while warming it up.**
- **Do not push or tow your vehicle to start the engine.**

GASOLINE PARTICULATE FILTER (GPF) (if equipped)

Your vehicle is equipped with a Gasoline Particulate Filter (GPF) as a part of the emission control system.

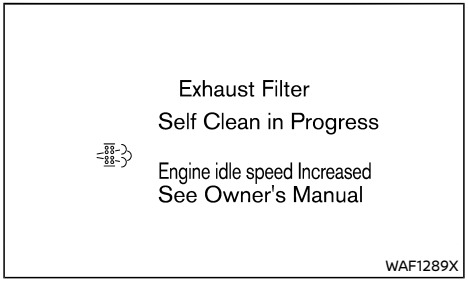
The GPF filters carbon particles from the exhaust gas, thus reducing the emission of soot to the environment.

Under normal driving conditions, the accumulated carbon particles in the GPF are burned-off regularly, thus emptying the filter from carbon particles. In this way, the GPF is "regenerated" and again fully operational to filter the carbon particles from the exhaust gas as intended.

CAUTION:

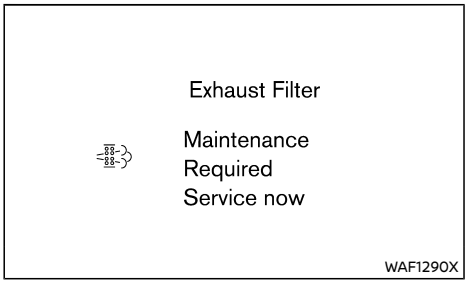
- **Under certain driving conditions, the GPF may become saturated/clogged because these driving conditions prevent auto-**

matic regeneration of the filter. In this case, a message appears in the vehicle information display.



- **When the "Exhaust Filter/Self Clean in Progress" message appears in the vehicle information display, provided that legal and safety conditions allow, the vehicle should be driven at a speed of over 60 km/h (37 MPH) until the message is no longer displayed.**
- **During the regeneration process, the engine speed may increase and driveability may change. You may also notice a change in the sound of the exhaust system. However, this is a normal behavior of the engine during regeneration and does not indicate a malfunction.**
- **When the "Exhaust Filter/Self Clean in Progress" message appears, Stop/Start system, cruise control (if equipped), Intelligent Cruise Control (if equipped) and ProPILOT (if equipped) system may be deactivated.**

If the vehicle continues to be driven with the "Exhaust Filter/Self Clean in Progress" message displayed, the GPF may become more saturated and displayed message may change to "Exhaust Filter/Maintenance Required Service now".



- **When the "Exhaust Filter/Maintenance Required Service now" message appears in the vehicle information display, always visit the nearest NISSAN dealer as soon as possible. The Malfunction Indicator Light (MIL) may also illuminate. Extended driving with the message displayed and/or the MIL illuminated may lead to damage to the exhaust filter system.**
- **When the "Exhaust Filter/Maintenance Required Service now" message appears in the vehicle information display, cruise control (if equipped), Intelligent Cruise Control (if equipped) and ProPILOT (if equipped) system will be deactivated.**

What you can do to prevent the GPF from becoming saturated/clogged:

- Avoid repeated and frequent short journeys in which the engine does not reach its normal operating temperature.
- Regularly drive the vehicle at speeds over 60 km/h (37 MPH) for an extended period of time (more than 30 minutes).

TURBOCHARGER SYSTEM (if equipped)

The turbocharger system uses engine oil for lubrication and cooling of its rotating components. The turbocharger turbine turns at extremely high speeds and it can reach an extremely high temperature. It is essential to maintain a clean supply of oil flowing through the turbocharger system. A sudden interruption of oil supply may cause a malfunction in the turbocharger.

To ensure prolonged life and performance of the turbocharger, it is essential to comply with the following maintenance procedure.

CAUTION:

- **Change your engine oil according to the recommended intervals shown in a separate maintenance booklet.**
- **Use only the recommended engine oil. (See "Recommended fluids/lubricants and capacities" (P.9-2).)**
- **If the engine has been operating at high rpm for an extended period of time, let it idle for a few minutes prior to turn off.**
- **Do not accelerate your engine to high rpm immediately after starting it.**

TIRE PRESSURE MONITORING SYSTEM (TPMS) (if equipped)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check all your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information

- Since the spare tire (if equipped) is not equipped with the TPMS, the TPMS does not monitor the tire pressure of the spare tire.
- The TPMS will activate only when the vehicle is driven at speeds above 25 km/h (16 MPH). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).
- The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, reset the tire pressures registered in your vehicle (model with TPMS reset function) and then drive the vehicle at speeds above 25 km/h (16 MPH) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.
- The "Low Tyre Pressure" warning appears in the vehicle information display when the low tire pressure warning light is illuminated and low tire pressure is detected. The "Low Tyre Pressure" warning turns off when the low tire pressure warning light turns off.

  The "Low Tyre Pressure" warning does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.
- Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Do not reduce the tire pressure after driving because the tire pressure rises after driving. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates in low ambient temperature, check the tire pressure for all four tires.
- Depending on a change in the outside temperature, the low tire pressure warning light may illuminate even if the tire pressure has been adjusted properly. Adjust the tire pressure to the recommended COLD tire pressure again when the tires are cold, and reset the TPMS (model with TPMS reset function).
- You can also check the tire pressure of all tires (except the spare tire) in the vehicle information display. (See "Trip computer" (P.2-43).)

For additional information, see "Low tire pressure warning light" (P.2-16) and "Tire Pressure Monitoring System (TPMS)" (P.6-3).

WARNING:

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the tire placard to turn the low tire pressure warning light OFF. If you have a flat tire, replace it with a spare tire (if equipped) or repair it using the emergency tire puncture repair kit (if equipped) as soon as possible. (See "Flat tire" (P.6-3) for chan-**

ging or repairing a flat tire.)

- **After adjusting the tire pressure, be sure to reset the TPMS. Otherwise, the TPMS will not warn of low tire pressure (model with TPMS reset function).**
- **Since the spare tire (if equipped) is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after the 1 minute. Contact a NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors (for models not equipped with the emergency tire puncture repair kit).**
- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure. Visit a NISSAN dealer as soon as possible after using tire repair sealant (for models equipped with the emergency tire puncture repair kit).**

CAUTION:

- **The TPMS may not function properly when the wheels are equipped with tire chains or the wheels are buried in snow.**
- **Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.**

Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate. Some examples are:

- Facilities or electric devices using similar radio frequencies are near the vehicle.
- If a transmitter set to similar frequencies is being used in or near the vehicle.
- If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

Low tire pressure warning light may illuminate in the following cases.

- If the vehicle is equipped with a wheel and tire without TPMS.
- If the TPMS has been replaced and the ID has not been registered.
- If the wheel is not originally specified by NISSAN.

FCC ID: KR5TIS-09DL

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

CAUTION TO USERS: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

TPMS with tire inflation indicator (if equipped)

When tire pressure is low, the low tire pressure warning light illuminates.

This vehicle provides visual and audible signals to help you inflate the tires to the recommended COLD tire pressure.

Vehicle set-up:

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and push the park button to shift to the "P" (Park) position.
3. Place the ignition switch in the "ON" position. Do not start the engine.

Operation:

1. Add air to the tire.
2. After a few seconds, the hazard indicators will start flashing.
3. When the designated pressure is reached, the horn beeps once and the hazard indicators stop flashing.
4. Perform the above steps for each tire.

- If the tire is over-inflated more than approximately 30 kPa (4 psi), the horn beeps and the hazard indicators flash 3 times. To correct the pressure, push the core of the valve stem on the tire briefly to release pressure. When the pressure reaches the designated pressure, the horn beeps once.
- If the hazard indicator does not flash in approximately 15 seconds after starting to inflate the tire, it indicates that the tire inflation indicator is not operating.
- The TPMS will not activate the tire inflation indicator under the following conditions:

— If there is interference from an external device or transmitter
— The air pressure from the inflation device such as those using a power socket is not sufficient to inflate the tire
— If an electrical equipment is being used in or near the vehicle
— There is a malfunction in the TPMS system
— There is a malfunction in the horn or hazard indicators

- If the tire inflation indicator does not operate due to TPMS interference, move the vehicle about 1 m (3 ft) backward or forward and try again.

If the tire inflation indicator is not working, use a tire pressure gauge.

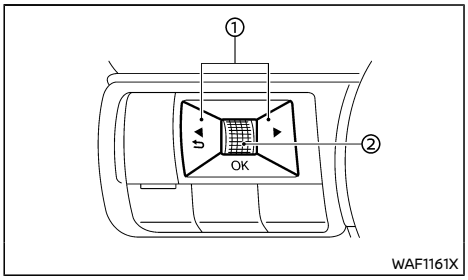
TPMS resetting (model with TPMS reset function)

To keep the TPMS functioning properly, the reset operation must be performed in the following cases.

- when the tire pressure is adjusted
- when a tire or a wheel is replaced
- when the tires are rotated

Perform the following procedures to reset the TPMS.

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and push the park button to shift to the "P" (Park) position.
3. Adjust the tire pressure on all four tires to the recommended COLD tire pressure shown on the tire placard. Use a tire pressure gauge to check the tire pressure.
4. Place the ignition switch in the "ON" position.



5. Press the ◀ ▶ button ① until "Settings" appears and then push the scroll dial ②.
6. Use the scroll dial ② until "Tyre Pressures" is selected, and press the scroll dial ②.
7. Use the scroll dial ② until "Calibrate" is selected, and press the scroll dial ②.
8. Use the scroll dial ② until "Yes" is selected, and press the scroll dial ② to reset the TPMS.
9. After resetting the TPMS, drive the vehicle for several minutes at speeds above 25 km/h (16 MPH).

If the low tire pressure warning light illuminates after the resetting operation, it may indicate that the TPMS is not functioning properly. Have the system checked by a NISSAN dealer.

For information regarding the low tire pressure warning light, see "Low tire pressure warning light" (P.2-16).

ON-PAVEMENT AND OFF-ROAD DRIVING PRECAUTIONS

Utility vehicles have a significantly higher rollover rate than other types of vehicles.

They have higher ground clearance than passenger cars to make them capable of performing in a variety of on-pavement and off-road applications. This gives them a higher center of gravity than ordinary cars. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. However, they are not designed for cornering at the same speeds as conventional passenger cars any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns or abrupt maneuvers, particularly at high speeds. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover.

Be sure to read "Driving safety precautions" (P.5-11).

OFF-ROAD RECOVERY

If the right side or left side wheels leave the road surface, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.
3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while the vehicle speed is reduced. Do not attempt to drive

the vehicle back onto the road surface until vehicle speed is reduced.

6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.
   - If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

DRIVING SAFETY PRECAUTIONS

Your vehicle is designed for both normal and off-road use. However, avoid driving in deep water or mud as your vehicle is mainly designed for leisure use, unlike a conventional off-road vehicle.

Remember that Two-Wheel Drive (2WD) models are less capable than Four-Wheel Drive (4WD)/ All-Wheel Drive (AWD) models for rough road driving and extrication when stuck in deep snow, mud, or the like.

Please observe the following precautions:

WARNING:

- **Drive carefully when off the road and avoid dangerous areas. Every person who drives or rides in this vehicle should be seated with their seat belt fastened. This will keep you and your passengers in position when driving over rough terrain.**
- **Do not drive across steep slopes. Instead drive either straight up or straight down the slopes. Off-road vehicles can tip over sideways much more easily than they can forward or backward.**
- **Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.**
- **Do not shift ranges while driving on downhill grades as this could cause loss of control of the vehicle.**
- **Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.**
- **If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in "R" (Reverse) range. Never back down in N (Neutral), using only the brake, as this could cause loss of control.**
- **Heavy braking going down a hill could cause your brakes to overheat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low range to control your speed.**
- **Unsecured cargo can be thrown around when driving over rough terrain. Properly secure all cargo so it will not be thrown forward and cause injury to you or your passengers.**
- **To avoid raising the center of gravity excessively, do not exceed the rated capacity of the roof rack (if equipped) and evenly distribute the load. Secure heavy loads in the cargo area as far forward and as low as possible. Do not equip the vehicle with tires larger than specified in this manual. This could cause your vehicle to roll over.**
- **Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could move suddenly and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.**
- **Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.**
- **Always drive with the floor mats in place as the floor may became hot.**
- **Lower your speed when encountering strong crosswinds. With a higher center of gravity, your vehicle is more affected by strong side winds. Slower speeds ensure better vehicle control.**
- **Do not drive beyond the performance capability of the tires, even with 4WD/ AWD engaged (4WD/AWD models).**
- **For 4WD/AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test an 4WD/AWD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with 4WD/ AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or per-**

sonal injury.

- **When a wheel is off the ground due to an unlevel surface, do not spin the wheel excessively (4WD/AWD model).**
- **Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.**
- **If at all possible, avoid sharp turning maneuvers, particularly at high speeds. Your vehicle has a higher center of gravity than a conventional passenger car. The vehicle is not designed for cornering at the same speeds as conventional passenger cars. Failure to operate this vehicle correctly could result in loss of control and/or a rollover accident.**
- **Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Install traction devices on the front wheels when driving on slippery roads and drive carefully.**
- **Be sure to check the brakes immediately after driving in mud or water. See "Brake system" (P.5-171) for wet brakes.**
- **Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.**
- **Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. See the maintenance information in a separate maintenance booklet.**
- **Spinning the front wheels on slippery surfaces may cause the 4WD/AWD warning message to display and the 4WD/AWD system to automatically switch from the 4WD/AWD mode to the 2WD mode. This could reduce traction (4WD/AWD models).**

Driving your vehicle to fit the circumstances is essential for your safety and comfort. As a driver, you should be the one who knows best how to drive in the given circumstances.

ENGINE COLD START PERIOD

Due to the higher engine speeds, when the engine is cold, extra caution must be exercised when selecting a gear during the engine warm-up period after starting the engine.

LOADING LUGGAGE

Loads and their distribution and the attachment of equipment (coupling devices, roof baggage carriers, etc.) will considerably change the driving characteristics of the vehicle. Your driving style and speed must be adjusted according to the circumstances.

DRIVING IN WET CONDITIONS

- Avoid accelerating or stopping suddenly.
- Avoid sharp turning or lane changing suddenly.
- Avoid following too close to the vehicle in front.

When water covers the road surface with water puddles, small water streams, etc., reduce speed to prevent hydroplaning which can cause skidding and loss of control. Worn tires will increase this risk.

DRIVING IN WINTER CONDITIONS

- Drive cautiously.
- Avoid accelerating or stopping suddenly.
- Avoid sharp turning or lane changing suddenly.
- Avoid sudden steering.
- Avoid following too close to the vehicle in front.

PRECAUTIONS ON PUSH-BUTTON IGNITION SWITCH OPERATION

WARNING:

Do not operate the push-button ignition switch while driving the vehicle except in an emergency. (The engine will stop when the ignition switch is pushed 3 consecutive times or the ignition switch is pushed and held for more than 2 seconds.) If the engine stops while the vehicle is being driven, this could lead to a crash and serious injury.

Before operating the push-button ignition switch, be sure to push the park button to shift to the "P" (Park) position.

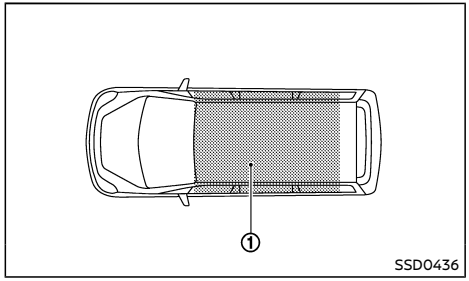
INTELLIGENT KEY SYSTEM

The Intelligent Key system can operate the ignition switch without taking the key out from your pocket or bag. The operating environment and/or conditions may affect the Intelligent Key system operation. Some indicators and warnings for operation are displayed on the vehicle information display. (See "Vehicle information display warnings and indicators" (P.2-30).)

CAUTION:

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key inside the vehicle when you leave the vehicle.**

OPERATING RANGE



The Intelligent Key can only be used for starting the engine when the Intelligent Key is within the specified operating range ①.

When the Intelligent Key battery is almost discharged or strong radio waves/noises are present near the operating location, the Intelligent Key system's operating range becomes narrower and may not function properly.

If the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the ignition switch to start the engine.

- The cargo room area is not included in the operating range but the Intelligent Key may function.
- If the Intelligent Key is placed on the instrument panel, inside the glove box or door pocket, the Intelligent Key may not function.
- If the Intelligent Key is placed near the door or window outside the vehicle, the Intelligent Key may function.

If the battery of the Intelligent Key is discharged, see "Intelligent Key battery discharge" (P.5-15).

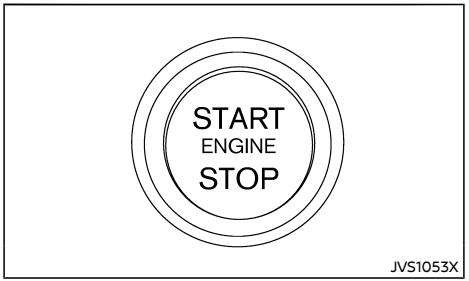
PUSH-BUTTON IGNITION SWITCH POSITIONS

WARNING:

Never place the ignition switch in the "OFF" position while driving. The steering wheel may lock and cause the driver to lose control of the vehicle, resulting in serious vehicle damage or personal injury.

CAUTION:

- **Do not leave the vehicle for extended periods of time when the ignition switch is in the "ON" position and the engine is not running. This can discharge the battery.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery. If you must use accessories while the engine is not running, do not use them for extended periods of time and do not use multiple electrical accessories at the same time.**



When the ignition switch is pushed without depressing the brake pedal, the ignition switch will illuminate.

Push the ignition switch center:

- once to change to "ON".
- two times to change to "OFF".

When the ignition switch cannot be placed in the "OFF" position, proceed as follows:

1. Push the park button to shift to the "P" (Park) position.
2. Push the ignition switch. The ignition switch position will change to the "ON" position.
3. Push the ignition switch again to the "OFF" position.

The shift position can be shifted from the "P" (Park) position if the ignition switch is in the "ON" position and the brake pedal is depressed.

"ON" (Normal operating position)

The ignition system and the electrical accessory power activate at this position without the engine turned on.

The "ON" position has a battery saver feature that will place the ignition switch in the "OFF" position, if the vehicle is not running, after some time under the following conditions:

- ignition switch is in the "ON" position.
- the engine is stopped.

The battery saver feature will be cancelled if any of the following occur:

- ignition switch is in the "OFF" position.
- the engine is running.

"OFF" position

The engine is turned off in this position.

Auto ACC position

With the vehicle in the "P" (Park) position, the Intelligent Key with you and the ignition placed from "ON" to "OFF", the radio can still be used for a period of time, or until the driver's door is opened. After a period of time, functions such as radio, navigation (if equipped), and Bluetooth Hands-Free Phone System may be restarted by turning on the audio system (see "Audio system" (P.4-35) or the separate Nissan-Connect Owner's Manual), or by pushing the UNLOCK button on the Intelligent Key for up to a total of 30 minutes.

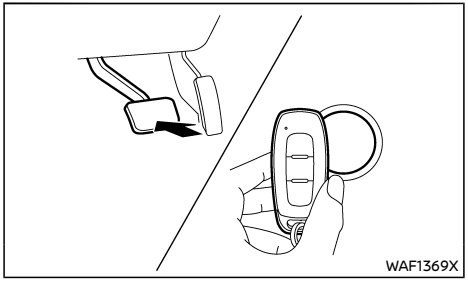
EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving or when the Intelligent Key battery is discharged, perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or
- Push and hold the push-button ignition switch for more than 2 seconds.

After engine shut-off, open the door to return to the normal condition.

INTELLIGENT KEY BATTERY DISCHARGE



If the battery of the Intelligent Key is discharged, or environmental conditions interfere with the Intelligent Key operation, start the engine according to the following procedure:

1. Push the park button to shift to the "P" (Park) position.
2. Firmly apply the foot brake.
3. Touch the ignition switch with the Intelligent Key as illustrated. (A chime will sound.)
4. Push the ignition switch while depressing the brake pedal within 10 seconds after the chime sounds. The engine will start.

After step 3 is performed, when the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change to "ON".

NOTE:

- **When the ignition switch is placed in the "ON" position or the engine is started by the above procedures, the "Key Battery Low" warning appears (on the vehicle information display) even if the Intelligent Key is inside the vehicle. This is not a malfunction. To turn off the warning, touch the ignition switch with the Intelligent Key again.**
- **If the "Key Battery Low" warning appears, replace the battery as soon as possible. (See "Intelligent Key battery" (P.8-19).)**

1. Apply the parking brake.
2. Confirm that the vehicle is in the "P" (Park) position.

   The Intelligent Key must be carried when operating the ignition switch.
3. Push the ignition switch to the "ON" position. Depress the brake pedal and push the ignition switch to start the engine.

   To start the engine immediately, push and release the ignition switch while depressing the brake pedal with the ignition switch in any position.

   - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
   - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the "ON" position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to "OFF". After cranking the engine, release the accelerator pedal. Crank the engine **with your foot off the accelerator pedal** by depressing the brake pedal and pushing the push-button ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.

CAUTION:

- **As soon as the engine has started, release the ignition switch immediately.**

- **Do not operate the starter for more than 15 seconds at a time. If the engine does not start, push the ignition switch to the "OFF" position and wait 10 seconds before cranking the engine again. Otherwise, the starter could be damaged.**
- **If it becomes necessary to start the engine with a booster battery and jumper cables, the instructions and cautions contained in the "6. In case of emergency" section should be carefully followed.**

4. **Warm-up**

   Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather. In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.

   When the engine is racing with no load and cold, the engine speed is limited to about 3,000 rpm.
5. To stop the engine, push the park button to shift to the "P" (Park) position, and push the ignition switch to the "OFF" position.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.)**
2. **Vehicle is not driven regularly and/or only driven short distances.**

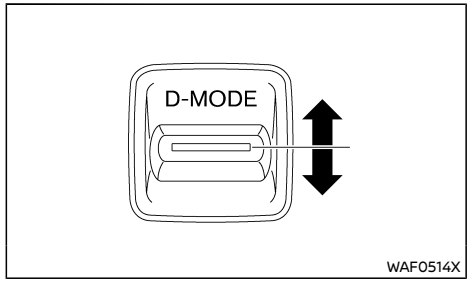
In these cases, the battery may need to be charged to maintain battery health.

REMOTE ENGINE START (if equipped)

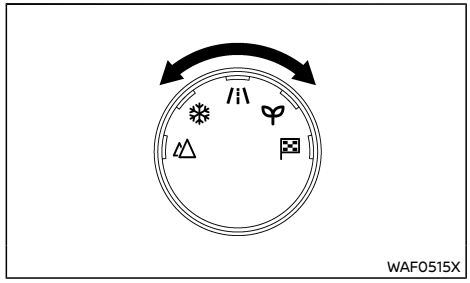
Vehicles started with the remote engine start function require the ignition switch to be placed in the "ON" position before the shift position can be shifted from the "P" (Park) position. To place the ignition switch in the "ON" position, perform the following steps:

1. Make sure that the Intelligent Key is carried with you.
2. Depress the brake pedal.
3. Push the ignition switch once to the "ON" position.

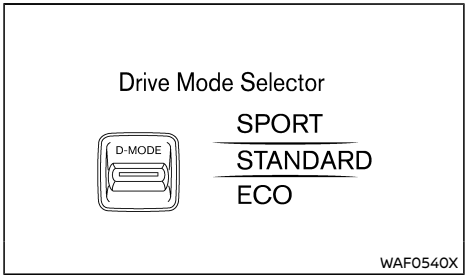
For additional information about the remote engine start function, see "Remote engine start" (P.3-19).



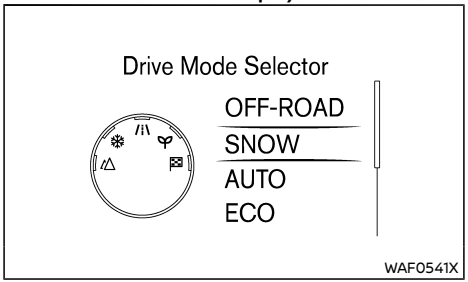
Drive Mode Selector: 2WD models



Drive Mode Selector: 4WD/AWD models



Vehicle information display: 2WD models



Vehicle information display: 4WD/AWD models

Multiple driving modes can be selected by using the Drive Mode Selector.

2WD: SPORT, STANDARD and ECO

To change the mode, push the Drive Mode Selector up or down.

4WD/AWD: OFF-ROAD, SNOW, AUTO, ECO and SPORT

To change the mode, turn the Drive Mode Selector right or left.

NOTE:

When the Drive Mode Selector selects a mode, the mode may not switch immediately. This is not a malfunction.

The current mode is displayed in the vehicle information display. The mode list will appear in the vehicle information display and you can select the mode.

NOTE:

The mode list will be turned off in approximately 5 seconds after the mode is selected.

You can also clear the message by pushing the scroll dial on the steering wheel.

If the driving mode cannot be switched using the Drive Mode Selector when the ignition switch is in the “ON” position, have the system checked. It is recommended you visit a NISSAN dealer for this service.

The STANDARD/AUTO mode will be selected first each time the ignition switch is placed in the "ON" position.

WARNING:

- **Do not stare at the Drive Mode Selector or the display while driving so that full attention may be given to vehicle operation.**
- **Avoid abrupt acceleration, steering or sudden braking especially on slippery roads. Otherwise tire slip, skid or tail-swing occurs; this may cause an accident.**

OFF-ROAD MODE (4WD/AWD models)

Allows for easier driving or starting on a bumpy road surface such as an uneven dirt road or a steep uphill slope or through sand.

CAUTION:

Never drive on dry, hard surface roads in the OFF-ROAD mode, as this will overload the powertrain and may cause a serious malfunction. Additionally, this will cause premature tire wear and reduced fuel economy.

When the OFF-ROAD mode is selected, small tight-corner braking phenomenon or small vibration in cornering may occur. This is not a malfunction.

SNOW MODE (4WD/AWD models)

This mode makes it easier to start and drive on snowy roads and frozen roads.

CAUTION:

Never drive on dry, hard surface roads in the SNOW mode, as this will overload the powertrain and may cause a serious malfunction. Additionally, this will cause premature tire wear and reduced fuel economy.

When the SNOW mode is selected, small vibration in cornering may occur. This is not a malfunction.

SPORT MODE

- Adjusts the engine and transmission points for a higher response.
- The setting of the steering system is adjusted to moderately increase steering wheel effort for a sporty feel.

NOTE:

In the SPORT mode, fuel economy may be reduced.

STANDARD MODE (2WD models)/AUTO MODE (4WD/AWD models)

This is the standard mode that is most suitable for normal driving.

ECO MODE

Assists the driver's ECO-driving. The engine and transmission points are adjusted for improved fuel economy, providing such driving features as smooth starting or constant cruising.

NOTE:

- **Selecting the ECO mode will not necessarily improve fuel economy as many driving factors influence its effectiveness.**
- **It is recommended to select other than ECO mode when acceleration is required such as when:**
  - **driving with a heavy load of passengers or cargo in the vehicle**
  - **driving on a steep uphill slope**

Operation

Select the ECO mode using the Drive Mode Selector. The ECO indicator illuminates.

ECO Drive Mode

When the ECO mode of the "ECO Cruise Control", "Stop/Start" and/or "ECO Climate Control" in addition to the conventional power train control is ON, more actual fuel economy is achieved by placing priority on fuel efficiency. It can be set when the ECO mode is selected. To activate or deactivate this function, see "ECO Settings" (P.2-24).

- ECO Cruise Control (if equipped)
  When the setting is ON, the fuel efficiency while cruising will be improved by lowering the acceleration target from normal (setting OFF) mode.
- Stop/Start (if equipped)
  When the setting is ON, the Stop/Start time will be extended more than normal mode when using the air conditioner.
- ECO Climate Control
  When the setting is ON, the fuel efficiency will be improved by reducing the performance of the air conditioning system.

NOTE:

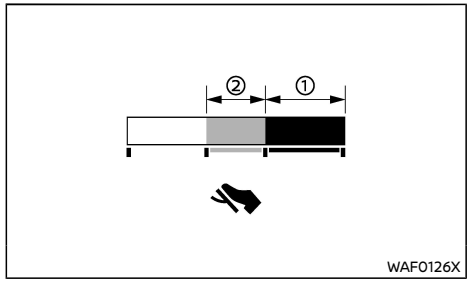
When the vehicle speed is reduced (for example, when the vehicle is driven on an uphill road from a flat road), it will take more time to return to the previously set speed than normal mode.

Tyre ECO advice (if equipped)

The "Tyre ECO advice" is a function to show an ECO advice message in the vehicle information display when low tire pressure is detected. To activate or deactivate this function, see "ECO Settings" (P.2-24).

When the setting is ON, the ECO Drive Report display shows "ECO Advice Adjust Tyre Pressures". You can switch the display to the Tire Pressures display by pushing the ◀ ▶ button on the steering wheel.

ECO Pedal Guide function



The ECO Pedal Guide display can be selected in the vehicle information display in the ECO mode. (See "5. ECO Pedal Guide" (P.2-45).) Use the ECO Pedal Guide function for improving fuel economy.

When the ECO Pedal Guide bar is in the green range ①, it indicates that the vehicle is being driven within range of the super economy drive.

When the ECO Pedal Guide bar is in the light green range ②, it indicates that the vehicle is being driven within range of the economy drive.

If the ECO Pedal Guide bar is out of the green

range (① and ②), it indicates that the accelerator pedal is depressed over the range of economy drive.

The ECO Pedal Guide bar is not displayed when:

- The vehicle speed is less than approximately 4 km/h (2 MPH).
- The shift lever is in the "P" (Park), "N" (Neutral) or "R" (Reverse) position.

CONTINUOUSLY VARIABLE TRANSMISSION (CVT)

The CVT in your vehicle is electronically controlled to produce maximum power and smooth operation.

The recommended operating procedures for this transmission are shown on the following pages. Follow these procedures for maximum vehicle performance and driving enjoyment.

Engine power may be automatically reduced to protect the CVT if the engine speed increases quickly when driving on slippery roads or while being tested on some dynamometers.

WARNING:

- **Do not depress the accelerator pedal while shifting from "P" (Park) or "N" (Neutral) to "R" (Reverse), "D" (Drive), or "M" (Manual shift mode). Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.**
- **Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.**
- **Do not downshift abruptly on slippery roads. This may cause a loss of control.**
- **Never shift to either the "P" (Park) or "R" (Reverse) position while the vehicle is moving forward and "P" (Park) or "D" (Drive) position while the vehicle is reversing. This could cause an accident or damage the transmission.**
- **Except in an emergency, do not shift to the "N" (Neutral) position while driving. Coasting with the transmission in the "N" (Neutral) position may cause serious damage to the transmission.**

CAUTION:

- **To avoid possible damage to your vehicle; when stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**
- **Do not hang items on the shift lever. This may cause an accident due to a sudden start.**

Starting the vehicle

1. After starting the engine, fully depress the foot brake pedal before attempting to place the shift position out of the "P" (Park) position. **This CVT is designed so that the foot brake pedal must be depressed before shifting from "P" (Park) to any driving position while the ignition switch is in the "ON" position. The shift position cannot be placed out of the "P" (Park) position and into any of the other positions if the ignition switch is placed in the "OFF" position.**
2. Keep the foot brake pedal depressed and move the shift lever into a driving position.
3. Release the parking brake, the foot brake pedal, and then gradually start the vehicle in motion.

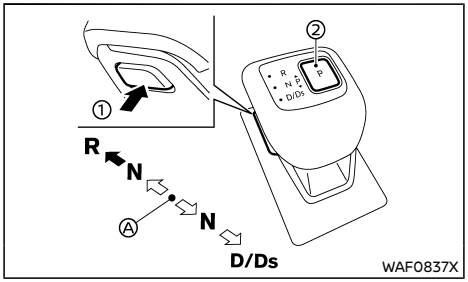
CAUTION:

- **DEPRESS THE FOOT BRAKE PEDAL - Shifting the shift lever to the "D" (Drive), "Ds" (Drive Sport), "R" (Reverse) or the manual shift mode without depressing the foot**

brake pedal causes the vehicle to move slowly when the engine is running. Make sure the foot brake pedal is depressed fully and the vehicle is stopped before shifting the shift lever.

- **MAKE SURE OF THE SHIFT LEVER POSITION – Make sure the shift position is in the desired position on the vehicle information display. "D" (Drive), "Ds" (Drive Sport) and the manual shift mode are used to move forward and "R" (Reverse) to back up.**
- **WARM UP THE ENGINE – Due to the higher idle speeds when the engine is cold, extra caution must be exercised when shifting the shift lever into the driving position immediately after starting the engine.**

Shifting



Left-Hand Drive (LHD) model

Ⓐ Home position (central position)

To move the shift lever,

➡: Push the button ① to shift.

⇨: Shift without pushing the button ①.

How to shift to each position:

The ignition switch must be in the ON position and the brake pedal must be depressed.

- **Shift to PARK**
  Push the park button ②.
- **Shift to REVERSE**
  1) Push the shift lever button ①.
  2) Move the shift lever from home position to "R" (Reverse) position.
- **Shift to NEUTRAL**
  — From "P" (Park) and "D" (Drive)
  Without pushing the shift lever button, push the shift lever forward (1 notch) from home position and hold 0.5 seconds.
  — From "P" (Park) and "R" (Reverse)
  Without pushing the shift lever button, pull the shift lever backward (1 notch) and hold for 0.5 seconds.
- **Shift to DRIVE**
  Pull the shift lever from home position to "D" (Drive) position.

WARNING:

Apply the electronic parking brake if the shift lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

CAUTION:

- **Use the "P" (Park), "R" (Reverse) or "D" (Drive) position only when the vehicle is completely stopped.**
- **When switching to the desired shift position by operating the shift lever, check that the shift lever returns to the central position by releasing your hand from the lever. Holding the shift lever in a mid-way position may also damage the shift control system.**
- **Do not operate the shift lever while the accelerator pedal is depressed. This may cause a sudden start which could result in an accident.**
- **The following operations are not allowed because excessive force would be applied to the transmission and this may result in damage to the vehicle:**
  — Moving the shift lever to the "R" (Reverse) position when driving forward
  — Moving the shift lever to the "D" (Drive) position when reversing

  If these operations are attempted, a chime sounds and the vehicle shifts to the "N" (Neutral) position.

P (Park):

CAUTION:

- **To prevent transmission damage, use the "P" (Park) position only when the vehicle is completely stopped.**
- **Do not slide the shift lever while pushing the park button. This may damage the**

shift control system.

Use this position when the vehicle is parked or starting the engine. Always make sure that the vehicle is completely stopped before pushing the park button to engage the "P" (Park) position. For maximum safety, the brake pedal must be depressed before engaging the "P" (Park) position. Use this position together with the electronic parking brake. When parking on a hill, first depress the brake pedal, apply the electronic parking brake and then engage the "P" (Park) position. The parking lock should not be used as a brake when parking. In order to secure the vehicle, always apply the electronic parking brake in addition to the parking lock.

In the event of a malfunction of the vehicle's electronics, the transmission may lock in the "P" (Park) position. Have the vehicle's electronics checked immediately. It is recommended that you visit a NISSAN dealer for this service.

The "P" (Park) position is automatically engaged if:

- You switch off the ignition switch.
- You unfasten the driver's seat belt and open the driver side door when the vehicle is stationary or driving at very low speed and the transmission is in the "D" (Drive) position, the "R" (Reverse) position or the "N" position unless the Neutral hold mode (if equipped) is engaged.

CAUTION:

To avoid CVT malfunction, it is recommended that you manually place the shift position in the "P" (Park) position under the above conditions.

R (Reverse):

CAUTION:

To prevent transmission damage, use the "R" (Reverse) position only when the vehicle is completely stopped.

Use the "R" (Reverse) position to back up. Make sure the vehicle is completely stopped before selecting the R (Reverse) position. **The brake pedal must be depressed and the shift lever button pushed to move the shift lever from the home position to "R" (Reverse). If the vehicle is placed in the "R" (Reverse) position while the vehicle is moving forward, the chime will sound and the vehicle will switch into the "N" (Neutral) position.**

N (Neutral):

Neither the forward nor reverse gear is engaged. The engine can be started in this position. You may shift to the "N" (Neutral) position and restart a stalled engine while the vehicle is moving.

You can select this position by holding the shift lever at this position for approximately 0.5 seconds.

D (Drive):

Use this position for all normal forward driving. The CVT changes gears automatically. All forward gears are available. **If the vehicle is placed in the "D" (Drive) position while the vehicle is reversing, the chime will sound and the vehicle will switch into the "N" (Neutral) position.**

Ds (Drive Sport):

When the shift lever is moved to the "D" (Drive) position again with the vehicle in the "D" (Drive) position while driving, the transmission enters the Ds (Drive Sport) mode. Moving the shift lever to the "Ds" (Drive Sport) mode allows you to enjoy "sporty" driving shift operation on a winding road and feel smooth acceleration or deceleration on a hilly road by moving in a lower gear automatically. When canceling the Ds (Drive Sport) mode, move the shift lever to the "D" (Drive) position again. The transmission returns to the "D" (Drive) position.

NOTE:

- **The Ds (Drive Sport) mode is not just for sporty driving, it can also be used when overtaking, for example.**
- **When driving conditions change, turn the Ds (Drive Sport) mode off.**
- **The Ds (Drive Sport) mode reduces fuel economy.**

Neutral hold mode function (if equipped)

This function enables you to turn off the engine with the vehicle in the "N" (Neutral) position. While this function is activated, the vehicle can be moved by pushing with hand even if the ignition switch is in the "OFF" position. When using this function, release the electronic parking brake.

WARNING:

- **Use this function on a level surface only. Failure to do so may cause the vehicle to move accidentally and could result in a collision or serious personal injury.**
- **When the ignition switch is placed in the "ON" position after activating this function, depress the brake pedal to stop the**

vehicle because the shift lever is in the "N" (Neutral) position.

- **If this function is not activated regardless of proper operation, transmission may malfunction. It is recommended that you visit a NISSAN dealer for this service.**

To activate the Neutral hold mode, perform the following operations.

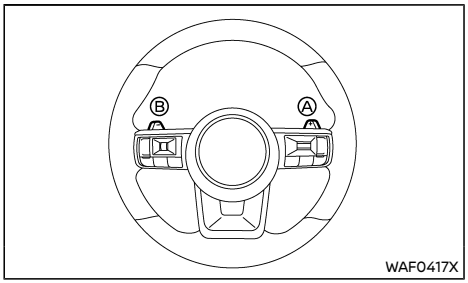
1. Push the ignition switch to start the engine.
2. Release the electronic parking brake and Automatic brake hold function.
3. Depress and hold the brake pedal. Slide the shift lever to move the transmission out of the "P" (Park) position.
4. Push the park button.
5. Slide the shift lever to the "N" (Neutral) position, and hold it for approximately 0.5 seconds until "N" appears in the vehicle information display and then return the lever to the central position.
6. Slide the shift lever to the "N" (Neutral) position again, and hold it for approximately 0.5 seconds, until a message "Park Gear & Park Brake not Applied" appears in the vehicle information display. (See "76. Neutral Hold Mode activated indicator" (P.2-41).)
7. Place the ignition switch in the "OFF" position. The engine will turn off with holding the "N" (Neutral) position.

To exit the Neutral hold mode, place the vehicle in other than "N" (Neutral) position.

NOTE:

- **It is necessary to perform the steps 4 through 6 within approximately 5 seconds and steps 5 and 6 within approximately 0.5 seconds to prevent incorrect operation.**
- **When the ignition switch is placed in the "OFF" position while the shift lever is in the "N" (Neutral) position, a message will appear in the vehicle information display. (See "75. Neutral Hold Mode guidance indicator" (P.2-41).)**
- **If the Neutral hold mode is unavailable, a message will appear in the vehicle information display. (See "77. Neutral Hold Mode was not activated indicator" (P.2-41).) To activate the Neutral hold mode, wait for a while without shifting operation and then perform the operations again.**

Manual shift mode



Paddle shifter

When using the paddle shifters while in the "Ds" (Drive Sport) mode, the transmission enters the manual shift mode. Shift range can be selected manually using the paddle shifters.

When shifting up, pull the right-side paddle shifter (+) Ⓐ. The transmission shifts to the higher range.

When shifting down, pull the left-side paddle shifter (−) Ⓑ. The transmission shifts to the lower range.

When canceling the manual shift mode, move the shift lever to the "D" (Drive) position again. The transmission returns to the "D" (Drive) position. If you want to return to the "Ds" (Drive sport) mode manually, pull and hold the paddle shifter for about 1.5 seconds.

When you pull the paddle shifter while in the "D" (Drive) position, the transmission will shift to the upper or lower range temporarily. The transmission will automatically return to the "D" (Drive) position after a short period of time. If you want to return to the "D" (Drive) position manually, pull and hold the paddle shifter for about 1.5 seconds.

In the manual shift mode, the shift range is displayed in the vehicle information display.

Shift ranges up or down one by one as follows:

$1^{M} \underset{\leftarrow}{\rightarrow} 2^{M} \underset{\leftarrow}{\rightarrow} 3^{M} \underset{\leftarrow}{\rightarrow} 4^{M} \underset{\leftarrow}{\rightarrow} 5^{M} \underset{\leftarrow}{\rightarrow} 6^{M} \underset{\leftarrow}{\rightarrow} 7^{M} \underset{\leftarrow}{\rightarrow} 8^{M}$

8^{M} (8th):

Use this position for all normal forward driving at highway speeds.

7^{M} (7th), 6^{M} (6th) and 5^{M} (5th):

Use these positions when driving up long slopes, or for engine braking when driving down long slopes.

4^{M} (4th), 3^{M} (3rd) and 2^{M} (2nd):

Use these positions for hill climbing or engine braking on downhill grades.

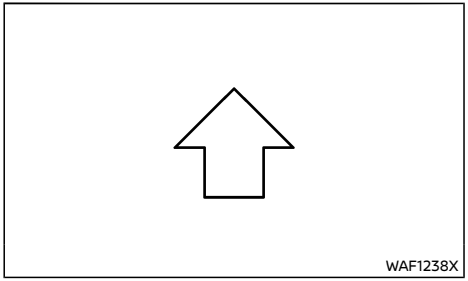
1^{M} (1st):

Use this position when climbing steep hills slowly or driving slowly through deep snow, or for maximum engine braking on steep downhill grades.

- Remember not to drive at high speeds for extended periods of time in lower than 8th gear. This reduces fuel economy.

- Pulling the same paddle shifter twice will shift the ranges in succession. However, if this motion is rapidly done, the second shifting may not be completed properly.
- **In the manual shift mode, the transmission may not shift to the selected gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.**
- **When this situation occurs, the Continuously Variable Transmission (CVT) position indicator will blink and the chime will sound.**
- **In the manual shift mode, the transmission may shift up automatically to a higher range than selected if the engine speed is too high. When the vehicle speed decreases, the transmission automatically shifts down and shifts to 1st gear before the vehicle comes to a stop.**
- CVT operation is limited to automatic drive mode when CVT fluid temperature is extremely low even if manual shift mode is selected. This is not a malfunction. When CVT fluid warms up, manual shift mode can be selected.
- When the CVT fluid temperature is high, the shift range may upshift in lower rpm than usual. This is not a malfunction.

Gear Shift Indicator (if equipped)



Gear Shift Indicator appears in the transmission position indicator when the driver should shift into a higher gear as indicated by the up arrow.

The use of Gear Shift Indicator will help to reduce fuel consumption.

When the up arrow appears, upshifting is recommended.

Gear shift recommendation may not be available depending on the conditions.

CAUTION:

Gear Shift Indicator helps to reduce fuel consumption. It does not recommend the appropriate gear shift for all driving situations. In a certain situations, only the driver can select the correct gear (for example, when overtaking, driving up a steep gradient or towing a trailer).

Accelerator downshift - in D (Drive) position -

For passing or climbing hills, depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

High fluid temperature protection mode

This transmission has a high fluid temperature protection mode. If the fluid temperature becomes too high, (for example, when climbing steep grades in high temperatures with heavy loads), engine power and, under some conditions, vehicle speed will be decreased automatically to reduce the chance of transmission damage. Vehicle speed can be controlled with the accelerator pedal, but the engine and vehicle speed may be limited.

Fail-safe

When the fail-safe operation occurs, the Continuously Variable Transmission will not be shifted into the selected driving position.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. The Malfunction Indicator Light (MIL) may come on to indicate the fail-safe mode is activated. For additional information, refer to "Malfunction Indicator Light (MIL)" (P.2-19). This will occur even if all electrical circuits are functioning properly. In this case, place the ignition switch in the "OFF" position and wait for 10 seconds. Then place the ignition switch back in the "ON" position. The vehicle should return to its normal operating condition. (The MIL may be illuminated even when the vehicle has returned to its normal operating condition.) If it does not return to its normal operating condition, have the transmission checked

and repaired, if necessary, by a NISSAN dealer.

WARNING:

When the high fluid temperature protection mode or fail-safe operation occurs, vehicle speed may be gradually reduced. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If necessary, pull to the side of the road at a safe place and allow the transmission to return to normal operation, or have it repaired if necessary.

STOP/START SYSTEM OR IDLING STOP SYSTEM (if equipped)

The Stop/Start System or Idling Stop System* is designed to prevent unnecessary fuel consumption, exhaust emissions, and noise during a journey.

(*: The system name differs depending on the country.)

There are two functions for the Stop/Start System or Idling Stop System, the regular Stop/Start System or Idling Stop System and the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt.

- When you stop the vehicle with the brake pedal depressed the engine is turned off automatically. (Stop/Start System or Idling Stop System)
- When the vehicle slows to approximately 18 km/h (11 MPH) with the brake pedal depressed, the engine is turned off automatically. (Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt)
- When you release the brake pedal, the engine is automatically turned on.

CAUTION:

- **The engine may restart automatically if required by the Stop/Start System or Idling Stop System.**
- **Place the ignition switch in the "OFF" position before opening the hood or performing any maintenance. Failure to do so may result in serious injuries due to automatic engine restart.**
- **Always place the ignition switch in the "OFF" position before leaving your vehicle, as the system may have turned the engine off, but the ignition will still be on and automatic restart may occur. Failure to do this may result in a flat battery.**

NOTE:

For model with Stop/Start System or Idling Stop System, use the special battery that is enhanced in regard to the charge-discharge capacity and life performance. Avoid using a non-special battery for the Stop/Start System or Idling Stop System, as this may cause early deterioration of the battery or a malfunction of the Stop/Start System or Idling Stop System. For the battery, it is recommended to use Genuine NISSAN parts. For more information, contact a NISSAN dealer.

NOTE:

The Stop/Start System or Idling Stop System, or the Stop/Start System before the vehicle halt or Idling Stop before the vehicle halt will not activate under the following conditions:

- **when the engine is kept idling without any driving after the engine is turned on.**
- **when the engine coolant temperature is low.**
- **when the battery capacity is low.**
- **when the battery temperature is low.**
- **when the vacuum in the brake servo decreases.**
- **when the engine hood is opened with the engine running.**
- **when the engine is turned on with the engine hood open.**
- **when the driver's seat belt is not fastened.**
- **when the driver's door is open.**
- **when the Stop/Start System or Idling Stop System indicator blinks.**

- when the fan speed control is in any position other than "OFF" while the air flow control is in the front defogger position.
- when the front defogger switch is on.
- when the temperature inside the vehicle is too hot. (When the air conditioner is off, the Stop/Start System or Idling Stop System will operate.)
- when the temperature inside the vehicle is too low. (When the fan speed control is "OFF", the Stop/Start System or Idling Stop System will operate.)
- when the Stop/Start or Idling Stop OFF switch is turned on.
- when altitude is high.
- when the power consumption is large.
- when the accelerator pedal is depressed.
- when the shift lever is in the "R" (Reverse) position.
- when the brake pedal is not firmly depressed.

NOTE:

The Stop/Start System or Idling Stop System, or the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt may not activate when the Intelligent Key is not in the vehicle and opening/closing any door.

NOTE:

The Stop/Start System or Idling Stop System will not activate under the following conditions:

- when the vehicle is moved.
- when stopping the vehicle on steep sloping roads.

NOTE:

The Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt will not activate under the following conditions:

- when the vehicle speed is above 18 km/h (11 MPH).
- when the shift lever is placed in other than "D" (Drive) position.
- when driving on other than flat roads.
- when the ProPILOT system (if equipped) is activated.

NOTE:

The engine will not restart even if the brake pedal is released while the Stop/Start System or Idling Stop System is activated under the following condition (the engine may restart under other conditions):

- when the shift lever is in the "P" (Park) position.
- when the shift lever is in the "N" (Neutral) position and the parking brake is applied.
- when the engine hood is opened.
- when Automatic brake hold is activated.
- when the ProPILOT system (if equipped) is activated.

NOTE:

It may take some time until the Stop/Start System or Idling Stop System, or the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt activates under the following conditions:

- when the battery is discharged.
- when the outside temperature is low or high.
- after the 12-volt battery (main) is replaced or after the terminal of 12-volt battery (main) is disconnected for extended period of time.

NOTE:

While the Stop/Start or Idling Stop System, or the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt activates, the engine restarts running automatically under at least one of the following conditions:

- the driver's seat belt is unfastened, or the driver's door is open.
- the battery voltage becomes low (due to electrical load from other vehicle systems like headlights, heaters, etc., or auxiliary devices connected to the 12–volt socket inside the vehicle).
- the vehicle speed is above about 2 km/h (1 MPH).
- when the front defogger is operated.
- when the temperature inside the vehicle is too hot. (When the air conditioner is off, the Stop/Start System or Idling Stop System will operate.)
- when the temperature inside the vehicle is too low. (When the fan speed control is "OFF", the Stop/Start System or Idling Stop System will operate.)
- when the front defogger is turned on.
- when more than 3 minutes have elapsed since engine was stopped.
- when the accelerator pedal is depressed.
- when the battery capacity is low.
- when the power consumption is high.
- when the Stop/Start OFF switch is turned on.
- when the ProPILOT system is set to operate (the engine may not start depending on the amount of brake pedal depression) (if equipped).

- **when the ProPILOT system is activated and the driver operates the system to start the vehicle (if equipped).**
- **when the ProPILOT system is activated and the vehicle ahead is started (if equipped).**
- **when the negative pressure of the brake system is not sufficiently applied by depressing the brake pedal several times.**

NOTE:

While the Stop/Start or Idling Stop System, or the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt activates, the engine may restart when the Intelligent Key is not in the vehicle and open/close any door.

NOTE:

The engine will restart while the Stop/Start System or Idling Stop System activates under the following conditions:
- **when the vehicle starts moving on the slope as the braking force is released.**
- **when the shift lever is placed in the "R" (Reverse) position.**
- **when the brake pedal is released with the shift lever in "Ds" (Drive Sport), "D" (Drive) or "N" (Neutral) position.**
- **when the shift lever is placed in "Ds" (Drive Sport) or "D" (Drive) position from "N" (Neutral) or "P" (Park) position.**
- **the brake pedal is released when the shift lever is in the "D" (Drive) or "N" (Neutral) position and the parking brake is not applied.**
- **the parking brake is released when the shift lever is in the "N" (Neutral) position and the brake pedal is not depressed.**
- **when the paddle shifter is operated with the shift lever in "D" (Drive) or "Ds" (Drive Sport) position.**

NOTE:

The following condition will prevent the Stop/Start System or Idling Stop System from automatically restarting the engine. Starting the engine with the ignition switch operation is then necessary:
- **the hood is open.**

NOTE:

The engine will restart while the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt activates under the following conditions:
- **when the vehicle speed becomes approximately 18 km/h (11 MPH).**
- **when the shift lever is placed in other than "D" (Drive) position.**
- **when the hood opening is detected.**
- **when the paddle shifter is operated with the shift lever in "D" (Drive) position.**

NOTE:

If the Intelligent Emergency Braking with Pedestrian Detection system activates while the Stop/Start System before the vehicle halt or Idling Stop System before the vehicle halt is activating, the engine will not restart while traveling. The engine will restart after the vehicle is stopped.

NOTE:

when the steering wheel is operated while the Stop/Start System or Idling Stop System activates, the steering wheel operation may become heavy. But this is not a malfunction.

Use this system while waiting at stoplight, etc. When the vehicle is stopped for long periods of time, turn off the engine.

When the engine is stopped by the Stop/Start System or Idling Stop System, heating, cooling and dehumidifying functions will be deactivated. To avoid the air conditioning functions from being deactivated, turn off the Stop/Start mode by pressing the Stop/Start or Idling Stop OFF switch.

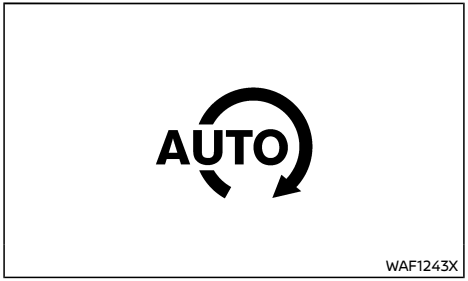
RETROGRADE MOVEMENT CONTROL FUNCTION

- The system is designed to reduce the retrograde movement that occurs while the driver's foot changes from depressing the brake pedal to the accelerator pedal when moving the vehicle while the Stop/Start System or Idling Stop System is active on a hilly road.
- Since this equipment utilizes the brake control by Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system, the system does not activate when the slip indicator light in the meter panel illuminates.

STOP/START OR IDLING STOP SYSTEM DISPLAY

The status of the Stop/Start System or Idling Stop System can be checked in the vehicle information display.

Stop/Start or Idling Stop System indicator



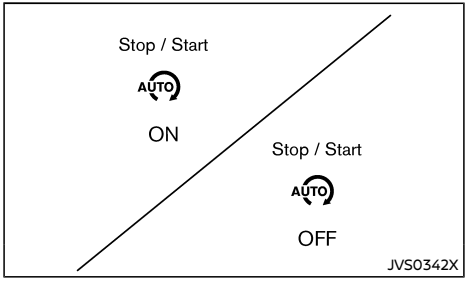
This indicator is displayed when the Stop/Start System or Idling Stop System is activated.

The indicator blinks when the Stop/Start System or Idling Stop System is malfunctioning.

NOTE:

When the indicator blinks, have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

Stop/Start or Idling Stop System ON or OFF



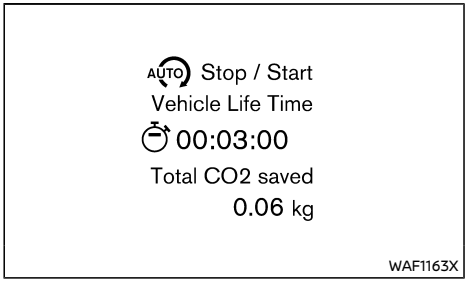
Example

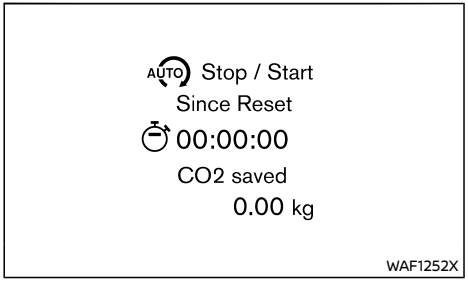
If the Stop/Start System or Idling Stop System is activated or deactivated using the Stop/Start or Idling Stop OFF switch, the message is shown.

If the Stop/Start System or Idling Stop System is deactivated using the Stop/Start or Idling Stop OFF switch, the Stop/Start OFF icon also appears in the vehicle information display (if equipped).

CO2 saved and engine stop time

There are two CO2 counters, one lifetime and one that can be reset.

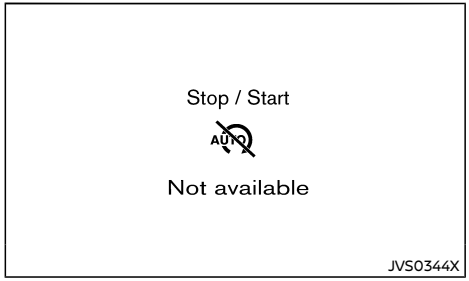




The CO2 saved and engine stop time mode shows:

- The CO2 saved shows the estimated quantity of CO2 exhaust emissions that were prevented by the Stop/Start System or Idling Stop System every time the engine is automatically stopped or since the last reset, or in vehicle's life time.
- The engine stop time shows the time that the engine has been stopped by the Stop/Start System or Idling Stop System since the last reset, or in vehicle's life time.

Auto start deactivation



Example

If the engine stops when the Stop/Start System or Idling Stop System is activated, and will not start automatically, the message is shown.

System fault

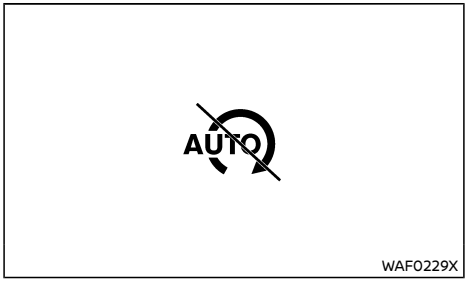


Example

This message is displayed when the Stop/Start System or Idling Stop System is malfunctioning.

Have the system checked by a NISSAN dealer.

Stop/Start or Idling Stop inhibition

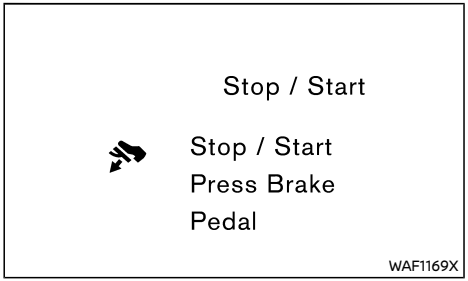


This indicator is displayed when the vehicle is stopped if the engine is prevented from automatically stopping by the Stop/Start System or Idling Stop System under the inhibition conditions. See "Stop/Start System or Idling Stop System" (P.5-24).

This indicator is also displayed under the following conditions:

- When the engine hood is opened while the engine is kept idling.
- When the Stop/Start System or Idling Stop System is not activated when the vehicle stops.

Stop/Start or Idling Stop guidance display (further depressing the brake pedal)



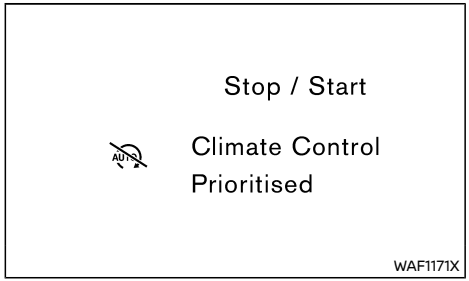
When the vehicle is stopped, the guidance is displayed if the Stop/Start System or Idling Stop System is deactivated due to not fully depressing the brake pedal.

If you wish to activate the Stop/Start System or Idling Stop System, further depress the brake pedal. See "Stop/Start System or Idling Stop System" (P.5-24).

The display disappears under the following conditions.

- The Stop/Start System or Idling Stop System is activated.
- The vehicle starts running.

Stop/Start or Idling Stop guidance display (placing priority on the air conditioner)



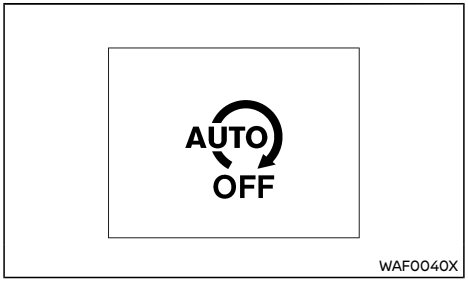
When the vehicle is stopped, the guidance is displayed if the Stop/Start System or Idling Stop System is deactivated since the air conditioner (cooling, heating or dehumidifying functions) is given priority.

The Stop/Start System or Idling Stop System is deactivated since the air conditioner is given priority. See "Stop/Start System or Idling Stop System" (P.5-24).

The display disappears under the following conditions.

- The Stop/Start System or Idling Stop System is activated.
- The vehicle starts running.

STOP/START OR IDLING STOP OFF SWITCH



The system can be temporarily deactivated by pressing the Stop/Start or Idling Stop OFF switch. Pressing the switch again or restarting the engine by using the ignition switch will reactivate the Stop/Start System or Idling Stop System.

- When the Stop/Start System or Idling Stop System is deactivated while the engine is running, the engine is prevented from automatically stopping.
- When the Stop/Start System or Idling Stop System is deactivated after the engine has been automatically stopped by the Stop/Start System or Idling Stop System, the engine will immediately restart if suitable conditions are present. The engine will then be prevented from automatically stopping during the same journey.

NOTE:

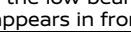
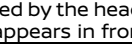
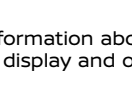
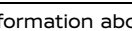
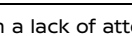
The Stop/Start System or Idling Stop System ON or OFF message is displayed for a few seconds in the vehicle information display when the Stop/Start OFF switch is pressed. See "Stop/Start or Idling Stop System ON or OFF" (P.5-27).

DRIVER ASSISTANCE SYSTEMS

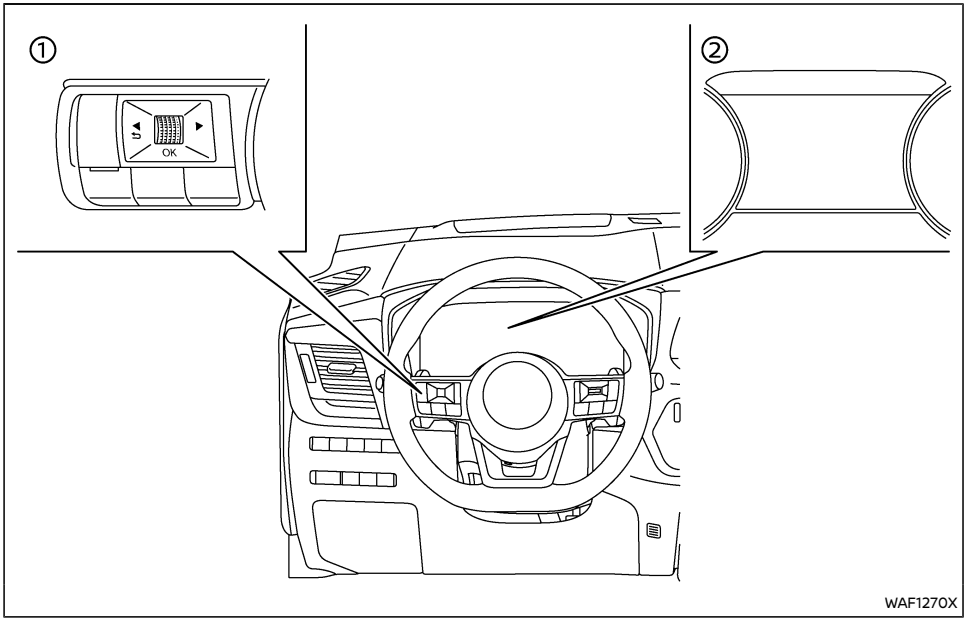
Each Driver Assistance system is designed to help the driver in different ways as they drive. The following Driver Assistance systems (if equipped) are available on this vehicle:

Category	System	Symbol	System description (See the specified page for detailed information.)	Page
Forward Driving Aids	Intelligent Emergency Braking with Pedestrian Detection		Assists the driver with a warning and/or braking operation when there is a risk of a forward collision with the vehicle ahead in the traveling lane, or with a pedestrian or a cyclist.	5-136
	Intelligent Forward Collision Warning		Helps alert the driver when there is a sudden braking of a second vehicle traveling in front of the vehicle ahead in the same lane.	5-147
	Intelligent Cruise Control (ICC) (models with ProPILOT system)		Intelligent Cruise Control (ICC) ● Helps the driver maintain a selected distance from the vehicle ahead and can reduce the speed to match a slower vehicle ahead. ● Decelerates the vehicle to a standstill when a vehicle ahead slows to a stop.	5-118
			Conventional (fixed speed) cruise control mode ● Allows the driver to drive the vehicle at a fixed speed without keeping his/her foot on the accelerator pedal.	5-134
	Intelligent Cruise Control (ICC) (models without ProPILOT system)		Intelligent Cruise Control (ICC) ● Helps the driver maintain a selected distance from the vehicle ahead and can reduce the speed to match a slower vehicle ahead. ● Decelerates the vehicle to a standstill when a vehicle ahead slows to a stop.	5-94
			Conventional (fixed speed) cruise control mode ● Allows the driver to drive the vehicle at a fixed speed without keeping his/her foot on the accelerator pedal.	5-106
	Cruise control (models without ProPILOT system or ICC)		Allows the driver to drive the vehicle at a fixed speed without keeping his/her foot on the accelerator pedal.	5-92
	Speed limiter		Allow the driver to set the desired speed limit.	5-90

Category	System	Symbol	System description (See the specified page for detailed information.)	Page
Side Driving Aids (Lane and Blind Spot)	Lane Departure Warning (LDW)		Warns the driver that the vehicle is about to cross a lane marker with an indicator and a steering wheel vibration.	5-49
	Intelligent Lane Intervention		• Warns the driver that the vehicle is about to cross a lane marker with an indicator and a steering wheel vibration. • Assists the driver to return the vehicle to the center of the traveling lane.	5-53
	Emergency Lane Assist (ELA) (Type A)		• Warns the driver when the vehicle approaches the road edge, solid line or dashed line with an indicator and a steering wheel vibration. • Assist the driver to return the vehicle to the traveling lane.	5-58
	Emergency Lane Assist (ELA) (Type B)		• Warns the driver when the vehicle approaches the road edge or solid white line with an indicator and a steering wheel vibration. • Assist the driver to return the vehicle to the traveling lane.	5-65
	Blind Spot Warning (BSW)		Warns the driver of a vehicle in an adjacent lane when changing lanes with an indicator.	5-72
	Intelligent Blind Spot Intervention		• Warns the driver of a vehicle in an adjacent lane when changing lanes. • Assists the driver to return the vehicle to the center of the traveling lane.	5-77
	Steering Assist		Assists the driver to help keep the vehicle within the center of the traveling lane (this system is integrated in the ProPILOT system).	5-129
Rear Driving Aids	Rear Cross Traffic Alert (RCTA)		Assists the driver when backing out from a parking space by detecting other vehicles approaching from the right or left of the vehicle.	5-85
	Rear Automatic Braking (RAB)		Assists the driver when the vehicle is backing up and approaching stationary objects directly behind the vehicle by providing a warning and automatic braking if needed.	5-157
Parking Aids	Rear view monitor	-	Shows a rear view of the vehicle when the shift lever is placed in the "R" (Reverse) position.	4-3
	Intelligent Around View Monitor	-	Assists the driver in parking situations by showing various views of the position of the vehicle in a split screen format.	4-8
	Moving Object Detection (MOD)	-	Informs the driver of moving objects near the vehicle in parking situations.	4-17
	Parking sensor (sonar) system	-	Informs the driver with a visual and audible alert of stationary obstacles near the bumpers.	5-177
ProPILOT	ProPILOT		Consists of Intelligent Cruise Control (ICC) and Steering Assist.	5-109

Category	System	Symbol	System description (See the specified page for detailed information.)	Page
Other Driving Aids	High beam assist		Switches the headlights to the low beam automatically when an oncoming vehicle or leading vehicle appears in front of your vehicle.	2-50
	Adaptive LED headlight		Changes the area illuminated by the headlights automatically when an oncoming vehicle or leading vehicle appears in front of your vehicle.	2-51
	Traffic Sign Recognition (TSR) (Type A)		Provides the driver with information about the most recently detected speed limit, using the speed limit display and overspeed warning function.	5-41
	Traffic Sign Recognition (TSR) (Type B)		Provides the driver with information about the most recently detected speed limit.	5-45
	Intelligent Driver Alertness		Helps alert the driver when a lack of attention or driving fatigue is detected.	5-155
	Hill Start Assist	-	Helps prevent the vehicle from rolling backwards in the time it takes the driver to release the brake pedal and apply the accelerator when the vehicle is stopped on a hill.	5-175

HOW TO ENABLE/DISABLE THE SYSTEMS



① Steering-wheel-mounted controls (left side)

② Vehicle information display

The following systems (if equipped) can be enabled or disabled using the settings menu in the vehicle information display. Select each setting item using the scroll dial on the steering-wheel-mounted controls.

- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning
- Lane Departure Warning (LDW)
- Intelligent Lane Intervention*
- Emergency Lane Assist (ELA) system
- Blind Spot Warning (BSW)
- Intelligent Blind Spot Intervention*
- Speed Limit Link
- CRUISE Navi Link
- Steering Assist
- Rear Cross Traffic Alert (RCTA)
- Rear Automatic Braking (RAB)
- Moving Object Detection (MOD)
- Parking sensor (sonar) system
- Traffic Sign Recognition (TSR)
- Intelligent Driver Alertness

*: To operate the Intelligent Lane Intervention and Intelligent Blind Spot Intervention systems, you need to push the ProPILOT switch or the dynamic driver assistance switch after enabling each system in the settings menu.

Driver Assistance display

The Driver Assistance display appears in the vehicle information display:

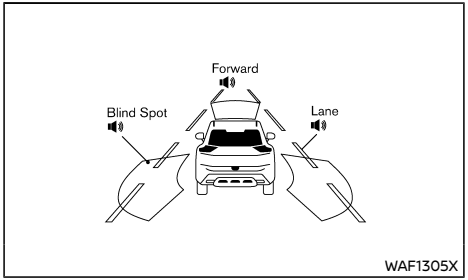
- When it is selected using the scroll dial.
- When the ProPILOT switch (if equipped) is pushed (for a short period of time, if equipped).

The status of the following systems (if equipped) can be shown in each zone of the display.

Zone	Driving Aid
Forward	Intelligent Emergency Braking with Pedestrian Detection
	Intelligent Forward Collision Warning
Lane	Lane Departure Warning (LDW)
	Intelligent Lane Intervention
Blind Spot	Blind Spot Warning (BSW)
	Intelligent Blind Spot Intervention

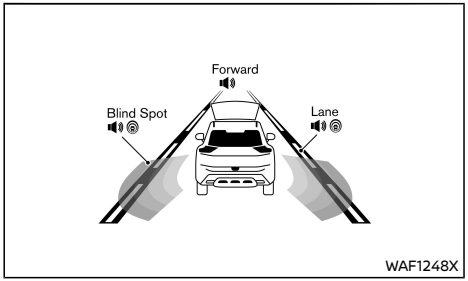
- When any of the "Warning" systems are enabled, the " " mark is shown in each zone.
- When any of the "Intervention" systems are enabled, the " " mark is shown in each zone.
- When no system is enabled, "OFF" is shown in each zone.
- When the " " mark (yellow) or " " mark (yellow) flashes or illuminates in each zone, the system cannot be used.

The display changes as the following examples:



Example

Zone	Driving Aid	Status
Forward	Intelligent Emergency Braking with Pedestrian Detection	Enabled (outline)
	Intelligent Forward Collision Warning	
Lane	Lane Departure Warning (LDW)	Enabled (outline)
	Intelligent Lane Intervention	Disabled
Blind Spot	Blind Spot Warning (BSW)	Enabled (outline)
	Intelligent Blind Spot Intervention	Disabled



Example

Zone	Driving Aid	Status
Forward	Intelligent Emergency Braking with Pedestrian Detection	Enabled (outline)
	Intelligent Forward Collision Warning	
Lane	Lane Departure Warning (LDW)	Enabled
	Intelligent Lane Intervention	Enabled (shaded)
Blind Spot	Blind Spot Warning (BSW)	Enabled
	Intelligent Blind Spot Intervention	Enabled (shaded)

COMMON TROUBLESHOOTING GUIDE

Some of the Driver Assistance systems use the common parts (camera, radar, etc.) to function. When a pop-up warning message appears in the vehicle information display, or the warning light flashes/illuminates, check the system condition. For details, see "System temporarily unavailable" and "System malfunction" sections in this Owner's Manual for each applicable system.

For camera and radar temporary blockage

Warning message/ Warning light	Symptom	Possible cause	System affected	Action to take
"Unavailable Camera Temperature High"	High camera temperature	Direct sunlight/High cabin temperature	TSR (Type B), LDW, Intelligent Lane Intervention, Intelligent Blind Spot Intervention and Steering Assist	When the interior temperature is reduced, the system resumes automatically. (Push the ProPILOT switch or the dynamic driver assistance switch to turn back on the Intelligent Lane Intervention and Intelligent Blind Spot Intervention systems.)
OFF Flashing			Intelligent Emergency Braking with Pedestrian Detection (Type B) and Intelligent Forward Collision Warning (Type B)	
"Currently Unavailable Front Camera High Temperature" and / / Illuminating			TSR (Type A), ELA (Type A) and Intelligent Emergency Braking with Pedestrian Detection (Type A)	When the interior temperature is reduced, the system resumes automatically.
"Unavailable Low Visibility" or OFF Flashing	Poor camera visibility	Direct sunlight	ELA (Type B), Steering Assist and Intelligent Emergency Braking with Pedestrian Detection (Type B)	When the condition no longer exists, the system resumes automatically.
	Camera obstruction	Windshield glass misted, frozen or covered with dirt		Clean the windshield glass of the camera area. Use the wipers and the defogger to help clear the windshield glass.
"Currently Unavailable Poor Visibility" and OFF Illuminating	Poor camera visibility	Direct sunlight	Intelligent Emergency Braking with Pedestrian Detection (Type A)	When the condition no longer exists, the system resumes automatically.

Warning message/ Warning light	Symptom	Possible cause	System affected	Action to take
"Temporarily Disabled Camera Blocked See Owner's Manual" and / / Illuminating	Camera obstruction	Windshield glass misted, frozen or covered with dirt	ELA (Type A), Intelligent Emergency Braking with Pedestrian Detection (Type A) and TSR	Clean the windshield glass of the camera area. Use the wipers and the defogger to help clear the windshield glass.
"Not Available Visibility is impaired" or "Unavailable Adverse Weather"	Poor visibility/ Undetectable lane marker	Bad weather	Steering Assist	When the condition no longer exists, push the ProPILOT switch to turn off the ProPILOT system and push the switch again to turn back on the system.
"Temporarily Disabled Front Radar Blocked" or "Forward Driving Aids temporarily disabled Front Sensor blocked See Owner's Manual" and Flashing (only Intelligent Emergency Braking)	Front radar obstruction	Inclement weather (rain, fog, snow, etc.)	ELA (Type B), ICC, ProPILOT, Intelligent Emergency Braking with Pedestrian Detection (Type B) and Intelligent Forward Collision Warning (Type B)	When the condition no longer exists, the system resumes automatically. (Push the ProPILOT switch or Cruise ON/ OFF switch to turn back on the ICC system.)
		Sensor covered with dirt or obstructed		Clean the front radar sensor area on the front of the vehicle.
		Roads with limited road structures or buildings		When the condition no longer exists, the system resumes automatically. (Push the ProPILOT switch or Cruise ON/ OFF switch to turn back on the ICC system.)
"Temporarily Disabled Front Radar Blocked See Owner's Manual" and / Illuminating	Front radar obstruction	Inclement weather (rain, fog, snow, etc.)	ELA (Type A), Intelligent Emergency Braking with Pedestrian Detection (Type A) and Intelligent Forward Collision Warning (Type A)	When the condition no longer exists, the system resumes automatically.
		Roads with limited road structures or buildings		
		Sensor covered with dirt or obstructed		Clean the front radar sensor area on the front of the vehicle.

Warning message/ Warning light	Symptom	Possible cause	System affected	Action to take
Flashing (only Intelligent Emergency Braking)	Front radar interruption	Interference from another radar source	ICC, ProPILOT, Intelligent Emergency Braking with Pedestrian Detection (Type B) and Intelligent Forward Collision Warning (Type B)	When the condition no longer exists, the system resumes automatically. (Push the ProPILOT switch or Cruise ON/OFF switch to turn back on the ICC system.)
"Currently Unavailable Radar Inhibited" and Illuminating			Intelligent Emergency Braking with Pedestrian Detection (Type A) and Intelligent Forward Collision Warning (Type A)	When the condition no longer exists, the system resumes automatically.
"Not Available Side Radar Obstructed"	Side radar obstruction	Radar blockage	ELA (Type B), BSW, Intelligent Blind Spot Intervention and RCTA	Clean the rear side radar area on the rear of the vehicle. When the condition no longer exists, the system resumes automatically. (Push the ProPILOT switch or dynamic driver assistance switch to turn back on the Intelligent Blind Spot Intervention.)
"Temporarily Disabled Side Radar Blocked See Owner's Manual" and Illuminating			ELA (Type A)	
"Unavailable Slippery Road"	Poor road condition	Slippery road	Intelligent Lane Intervention, Intelligent Blind Spot Intervention, ICC and ProPILOT	When the condition no longer exists, push the ProPILOT switch or the dynamic driver assistance switch or the Cruise ON/OFF switch to turn back on each system.
"Not Available, Parking Brake On"	System cancel	Electronic parking brake application	ProPILOT	When the condition no longer exists, push the ProPILOT switch to turn off the ICC system and push the switch again to turn back on the ICC system.
"Press brake pedal" or "Step on Brake Now"	No electronic parking brake application	Driver's door open (vehicle stopped)	ProPILOT	Step on the brake pedal immediately.

For system temporarily unavailable

Warning light/Warning message	Possible cause	System to check	Action to take
Illuminating	VDC/ESP turned off	Intelligent Emergency Braking with Pedestrian Detection (Type B)	Turn on the VDC/ESP.
"Currently Unavailable ESP OFF" and Illuminating	VDC/ESP turned off	ELA (Type A), Intelligent Emergency Braking with Pedestrian Detection (Type A)	Turn on the VDC/ESP.
Illuminating	VDC/ESP turned off	RAB	Turn on the VDC/ESP.
"Currently Not Available"	VDC/ESP turned off	Intelligent Lane Intervention, Intelligent Blind Spot Intervention, ICC and ProPILOT	Turn on the VDC/ESP.
	SNOW mode or OFF-ROAD mode selected (4WD/AWD models)		Select a mode other than SNOW and OFF-ROAD.
"Currently Not Available" and Illuminating	The direction of the front camera is significantly misaligned.	ELA (Type A)	Have the system checked.

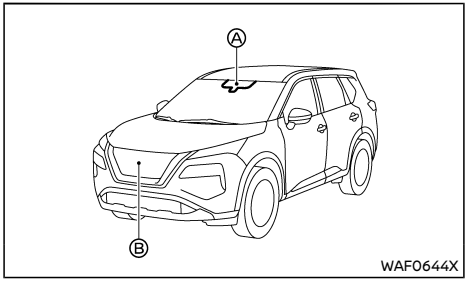
For system malfunction

Warning light/Warning message	Symptom	System to check	Action to take
"System fault See Owner's Manual"* and Illuminating	System malfunction	Intelligent Emergency Braking with Pedestrian Detection and Intelligent Forward Collision Warning	Stop the vehicle in a safe location. Turn the engine off and restart the engine. If the warning light/message continues to illuminate, have the system checked. It is recommended that you visit a NISSAN dealer for this service.
"System fault See Owner's Manual"* and Illuminating		RAB	
"System fault See Owner's Manual"*		TSR, RAB, LDW, Intelligent Lane Intervention, ELA (Type B), BSW, Intelligent Blind Spot Intervention, RCTA, ICC, Steering Assist and Intelligent Driver Alertness (Type B)	
"System fault See Owner's Manual"* and / / Illuminating		ELA (Type A), Intelligent Driver Alertness (Type A) and TSR (Type A)	
"Parking Sensor system fault See Owner's Manual"		Parking sensor (sonar) system	

*: Depending on the model, "Malfunction See Owner's Manual" will be displayed.

Camera, radar and sonar locations

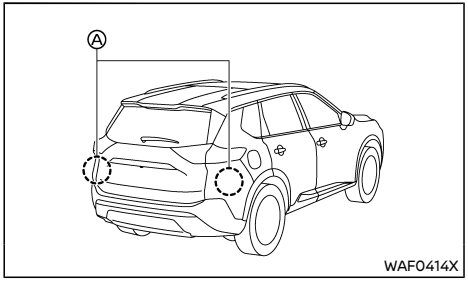
The camera, radar and parking sensors that are used by each Driver Assistance system are located on the front and rear of the vehicle. For the maintenance of each component, see "System maintenance" section in this Owner's Manual for each application system.



Vehicle front

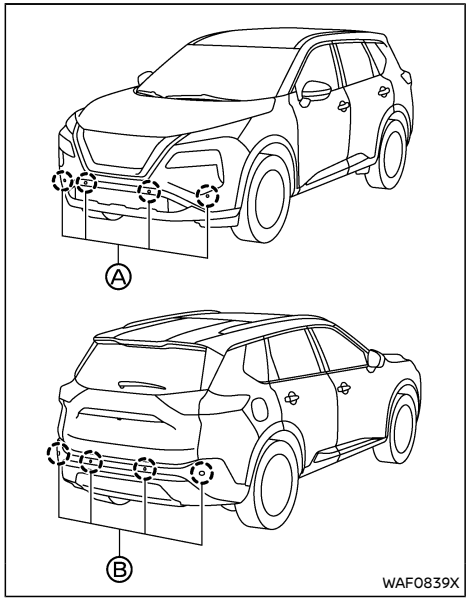
Ⓐ Front camera unit
- — Intelligent Emergency Braking with Pedestrian Detection
- — Lane Departure Warning (LDW)
- — Intelligent Lane Intervention
- — Intelligent Blind Spot Intervention
- — Steering Assist
- — Emergency Lane Assist (ELA)
- — High beam assist
- — Adaptive LED headlight
- — Traffic Sign Recognition (TSR)

Ⓑ Front radar sensor
- — Intelligent Emergency Braking with Pedestrian Detection
- — Intelligent Forward Collision Warning
- — Intelligent Cruise Control (ICC)



Vehicle rear

Ⓐ Side radar sensor
- — Blind Spot Warning (BSW)
- — Intelligent Blind Spot Intervention
- — Rear Cross Traffic Alert (RCTA)
- — Emergency Lane Assist (ELA)



Parking sensors

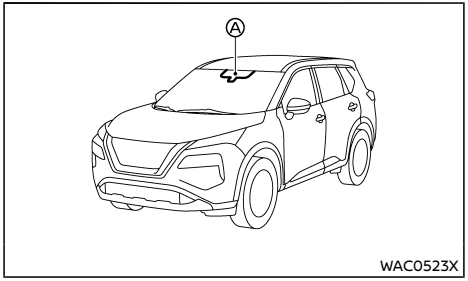
Ⓐ Front parking sensors (if equipped)
- — Parking sensor (sonar) system

Ⓑ Rear parking sensors
- — Rear Automatic Braking (RAB)
- — Parking sensor (sonar) system

TRAFFIC SIGN RECOGNITION (TSR) (Type A) (if equipped)

Application:

Type A is for models with the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.



The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. The system captures the road sign information with the multi-sensing front camera unit Ⓐ located on the windshield in front of the inside rearview mirror and displays the detected signs in the vehicle information display and in the Head Up Display (HUD) (if equipped). (See "Head Up Display (HUD)" (P.2-46).)

The speed limit displayed is based on a combination of the map data and live camera recognition. When a change of the speed limit is detected, the system notifies the driver with a speed display icon and a chime (once). If the vehicle exceeds the speed limit, the system warns the driver by flashing the speed display icon and issues warning chime (four times). The overspeed warning chime can be canceled if the driver takes action to slow down or pushes the scroll dial on the steering-wheel-mounted controls.

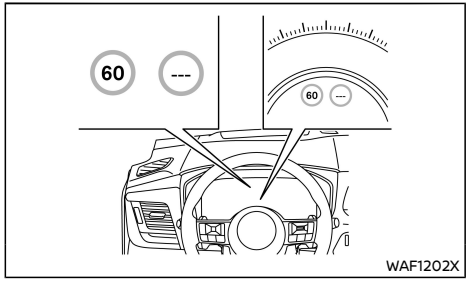
WARNING:

- **The TSR system is only intended to be a support device to help provide the driver with information. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness. It is the driver's responsibility to stay alert and drive safely at all times.**
- **Any indications and warnings provided by the TSR system will not override the actual speed limit applicable in a particular situation. It is the driver's responsibility to observe and comply with the speed limits at all times.**

The TSR system operates as follows:

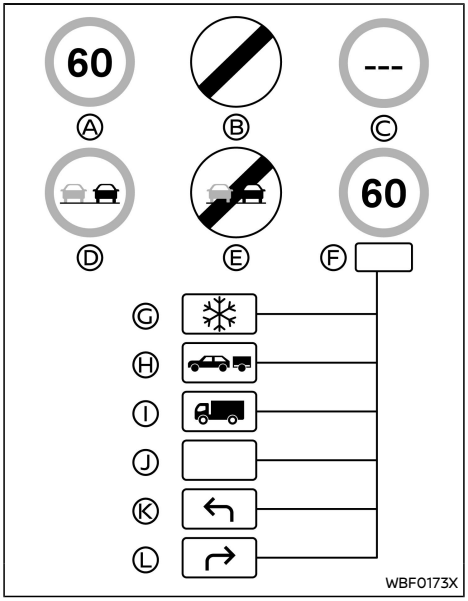
- The function will be automatically turned ON when the ignition switch is placed in the "ON" position.
- If the license of the map data has expired, the map data cannot be used or updated, which means that in some cases the speed limit display cannot be used.
- To maintain the road sign display performance of the system, periodic updates of the map data are required. See "How to update the map data" (P.5-44).
- The map data may be automatically updated to the latest version depending on the environment and some conditions.

SYSTEM OPERATION



Example

The TSR system displays the following types of road sign:



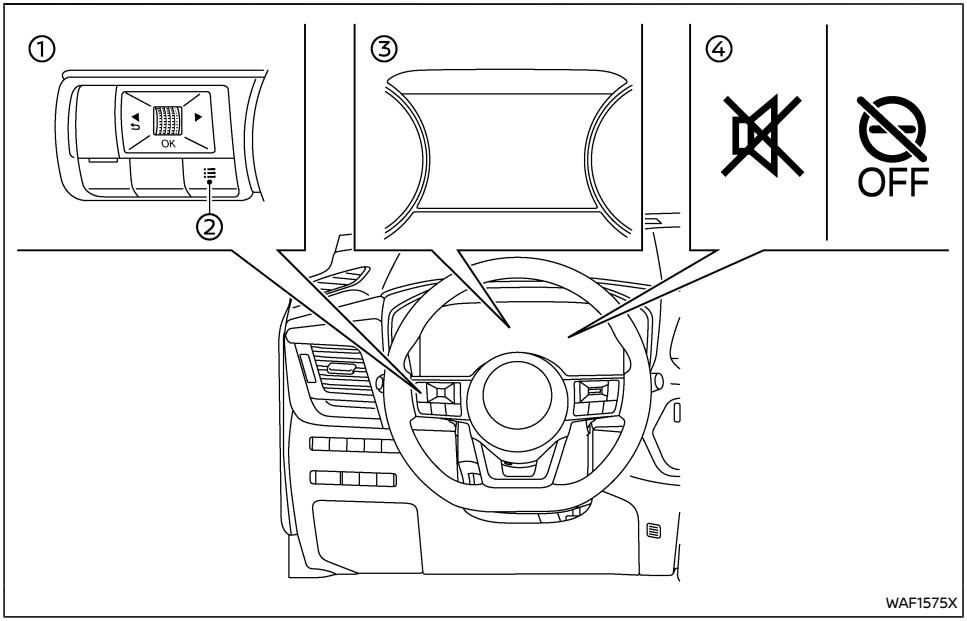
Available road signs

Ⓐ Latest detected speed limit
Ⓑ National speed limit
Ⓒ No speed limit information
Ⓓ No-overtaking zone
Ⓔ End of no-overtaking zone
Ⓕ Conditional speed limit, with the following available conditions:
Ⓖ Snow
Ⓗ Towing
Ⓘ Goods vehicles
Ⓙ Generic
Ⓚ Left turn allowed
Ⓛ Right turn allowed

CAUTION:

- **The TSR system is intended as an aid to careful driving. It is the driver's responsibility to stay alert, drive safely, and observe all road regulations that currently apply, including looking out for road signs.**
- **The TSR system may not function properly under all conditions. Below are some examples:**
  - **— When the road sign is not clearly visible, for example, due to damage or weather conditions.**
  - **— When rain, snow or dirt adheres to the windshield in front of the multi-sensing front camera unit.**
  - **— When the headlights are not bright, for example, due to dirt on the lens or if the aiming is not adjusted properly.**
  - **— When strong light enters the camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
  - **— When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**
  - **— When there is poor visibility. (For example, insufficient illumination of the road, bad weather conditions in rain, snow, fog or heavy spray.)**
  - **— When the traffic signs are damaged or not standard. (For example, incorrect size, height, direction or brightness, broken or bent.)**
  - **— When the traffic signs are hard to detect. (For example, they are covered by dirt or snow, or insufficient lighting.)**
  - **— When the traffic signs are ambiguous. (For example, traffic signs on construction sites, in adjacent lanes or exit lane.)**
  - **— When there is an object similar to traffic signs. (For example, similar signs, board or structure.)**
  - **— When passing traffic signs are outside the camera's field of vision. (For example, after a sharp turn or located too far away.)**
  - **— When electric traffic signs are hard to detect. (For example, low contrast, located too far away or 3 digits.)**
  - **— When overtaking buses or trucks with speed stickers.**
- **The TSR system may display a traffic sign, even though there is no traffic sign in front of the vehicle. It may display a different speed limit from that for a passenger vehicle. (The maximum speed limit sign may show a higher or lower number than the actual maximum speed, for example, when detecting a speed limit sign for trucks, different speed limit with the time of day or day of the week, or speed limit sign using different units near a border, when detecting an electric traffic sign with or without speed limit indication, when detecting an irrelevant speed limit passing by a freeway exit or junction, etc.)**

HOW TO ENABLE/DISABLE THE TSR SYSTEM



① Steering-wheel-mounted controls (left side)
② Shortcut menu button
③ Vehicle information display
④ TSR indicators (on the vehicle information display)

Perform the following steps to enable or disable the TSR system, or customize the settings.

Shortcut Menu

1. Push the shortcut menu button on the steering switch to display "Shortcut Menu".
2. Select "Driver Assist Custom" and push the scroll dial to enable the system settings.
3. Select "Custom Mode Setup" and push the scroll dial to customize the settings.

- Speed Limit
  The TSR system can be customized or turned off.
  "Warning": Both the speed limit information display and overspeed warning function (display and chime) are enabled.
  "Info only": Only the speed limit display is enabled (overspeed alarm sound and flashing display are disabled).
  "OFF": The TSR system is disabled.
- New Limit Alert
  Notification (chime) when the speed limit changes is enabled or disabled.

Settings

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
2. Select "Traffic Sign Assist" and push the scroll dial.

The following items are available:

- Speed Limit
  The TSR system can be customized or turned off.
  "Warning": Both the speed limit information display and overspeed warning function (display and chime) are enabled.
  "Info only": Only the speed limit display is enabled (overspeed alarm sound and flashing display are disabled).
  "OFF": The TSR system is disabled.
- New Limit Alert
  Notification (chime) when the speed limit changes is enabled or disabled.
- Database Version
  The version of the map data can be confirmed.

- Update by USB

  This is used to update the map data. (See "How to update the map data" (P.5-44).)
- License information

  The map license information can be confirmed.

  "License Expiration": The expiry date of the map license

  "License state": The state (active/inactive) of the current map license

NOTE:

- **When the overspeed warning function is disabled ("Info only" is selected), the " " indicator appears in the vehicle information display. (The indicator will turn off after a period of time.)**
- **When both the speed limit display and overspeed warning function are disabled ("OFF" is selected), the " " indicator (white) appears in the vehicle information display.**
- **When the ignition switch is placed in the "ON" position, the " " indicator (yellow) appears. After starting the engine, the indicator turns off. This indicates the TSR system is operational.**

SYSTEM TEMPORARILY UNAVAILABLE

Condition A

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then started, the TSR system may be deactivated automatically. The " " indicator (yellow) and the "Currently Unavailable Front Camera High Temperature" warning message will appear in the vehicle information display.

Action to take:

When the interior temperature is reduced, the TSR system will resume operating automatically.

Condition B

In the following conditions, the " " indicator (yellow) and the "Temporarily Disabled Camera Blocked See Owner's Manual" warning message will appear in the vehicle information display and the system will be turned off automatically.

- The camera area of the windshield is covered with moisture, snow, ice, dirt or some other object.
- The camera area of the windshield is continuously covered with dirt, etc.

Action to take:

Check that the windshield is clean and free from ice/mist in front of the camera. If necessary, operate the Max defogging/defrosting function or heated windshield (if equipped) to clear. This may take several minutes.

When the above conditions no longer exist, the TSR system will resume automatically.

Condition C

If the data communication between systems is temporarily interrupted for some reason, the " " indicator (yellow) and the "Currently Unavailable" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the TSR system checked. It is recommended you visit a NISSAN dealer for this service.

SYSTEM MALFUNCTION

If the TSR system malfunctions, it will be turned off automatically, and the " " indicator (yellow) and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take

If the warning message appears, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the system checked. It is recommended you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE

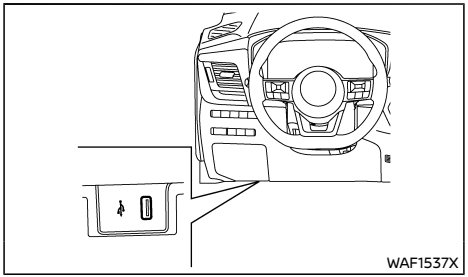
The TSR system uses the same multi-sensing front camera unit that is used by the Emergency Lane Assist (ELA) system, located in front of the inside rearview mirror. For maintenance of the camera, see "System maintenance" (P.5-64).

How to update the map data

The map data used for the TSR system can be updated by downloading a new map data to a USB memory device and installing it in the vehicle.

For map data update, the following equipments are necessary:

- A USB hub with an external power for connecting the USB memory device to the vehicle
- A USB memory device with a minimum of 8GB storage space
- A personal computer with Internet access to download a new map data
- For detailed specification and recommended products, please contact a NISSAN dealer.



USB port for TSR map update

Perform the following steps to update the map data:

(Visit website or consult a NISSAN dealer for details.)

1. Confirm the map version* on the vehicle and check if a new version is available at the website. (When the map version on the vehicle and on the website is the same, map update is not necessary.)
2. If a new version is available, connect the USB hub to the vehicle. Then, save the map information to the USB memory.
3. Start the engine.
4. Download the map data from the website.
5. Save the map data to the vehicle.

- For details, please visit https://nissan.navigation.com/nissan-road-database-update.
- If you need any assistance for updating the map data, please contact a NISSAN dealer.

*: The map version can be confirmed as follows:

Example: 23.Q1.1

1. First 2 digits: 23 (last 2 digits of the year: 2023)
2. Second 2 digits: Q1 (Quarter 1, from January to March)
3. Last 3 digit(s): 1 (version number, from 1 to 366)

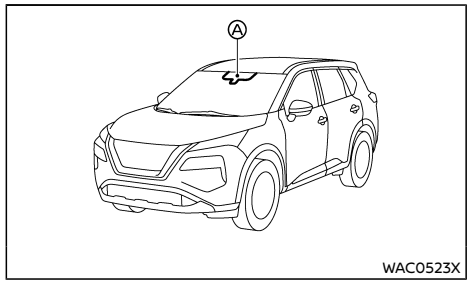
NOTE:

- **The vehicle information display cannot be operated while the map data is being updated.**
- **The map data should be updated while the engine is running to prevent discharge of the battery.**
- **This USB port (for TSR map update) cannot be used for charging an external device.**

TRAFFIC SIGN RECOGNITION (TSR) (Type B) (if equipped)

Application:

Type B is for models without the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.



The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. The system captures the road sign information with the multi-sensing front camera unit Ⓐ located on the windshield in front of the inside rearview mirror and displays the detected signs in the vehicle information display. For vehicles equipped with navigation system, the speed limit displayed is based on a combination of navigation system data and live camera recognition. TSR information is shown in the vehicle information display and in the Head Up Display (HUD) (if equipped). (See "Head Up Display (HUD)" (P.2-46).)

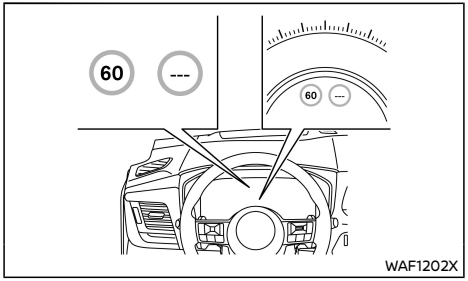
WARNING:

The TSR system is only intended to be a support device to help provide the driver with information. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness. It is the

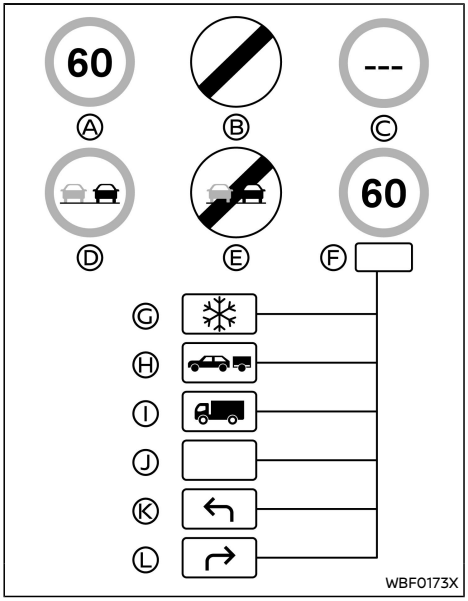
driver's responsibility to stay alert and drive safely at all times.

SYSTEM OPERATION

The TSR system displays the following types of road sign:



Example



Available road signs

Ⓐ Latest detected speed limit
Ⓑ National speed limit
Ⓒ No speed limit information
Ⓓ No-overtaking zone
Ⓔ End of no-overtaking zone
Ⓕ Conditional speed limit, with the following available conditions:
Ⓖ Snow
Ⓗ Towing
Ⓘ Goods vehicles
Ⓙ Generic
Ⓚ Left turn allowed
Ⓛ Right turn allowed

CAUTION:

- **The TSR system is intended as an aid to careful driving. It is the driver's responsibility to stay alert, drive safely, and observe all road regulations that currently apply, including looking out for road signs.**
- **The TSR system may not function properly under all conditions. Below are some examples:**
  - **— When rain, snow or dirt adheres to the windshield in front of the multi-sensing front camera unit.**
  - **— When the headlights are not bright, for example, due to dirt on the lens or if the aiming is not adjusted properly.**
  - **— When strong light enters the camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
  - **— When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**
  - **— When there is poor visibility. (For example, insufficient illumination of the road, bad weather conditions in rain, snow, fog or heavy spray.)**
  - **— When the traffic signs are damaged or not standard. (For example, incorrect size, height, direction or brightness, broken or bent.)**

— When the traffic signs are hard to detect. (For example, they are covered by dirt or snow, or insufficient lighting.)

— When the traffic signs are ambiguous. (For example, traffic signs on construction sites, in adjacent lanes or exit lane.)

— When there is an object similar to traffic signs. (For example, similar signs, board or structure.)

— When passing traffic signs are outside the camera's field of vision. (For example, after a sharp turn or located too far away.)

— When electric traffic signs are hard to detect. (For example, low contrast, located too far away or 3 digits.)

— In areas not covered by the navigation system (if equipped).

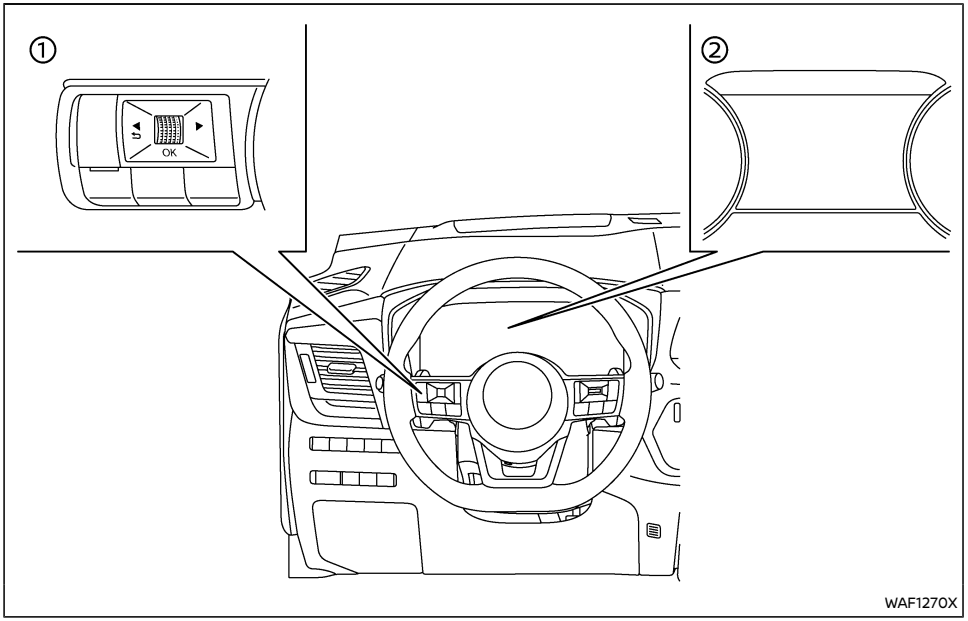
— If there are deviations in relation to the navigation (if equipped), for example due to changes in the road routing.

— When overtaking buses or trucks with speed stickers.

— When the data from the navigation system (if equipped) is not up-to-date or is unavailable.

- The TSR system may display a traffic sign, even though there is no traffic sign in front of the vehicle. It may display a different speed limit from that for a passenger vehicle. (The maximum speed limit sign may show a higher or lower number than the actual maximum speed, for example, when detecting a speed limit sign for trucks, different speed limit with the time of day or day of the week, or speed limit sign using different units near a border, when detecting an electric traffic sign with or without speed limit indication, when detecting an irrelevant speed limit passing by a freeway exit or junction, etc.)

HOW TO ENABLE/DISABLE THE TSR SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the TSR system:

1. Push the ◀ ▶ button until “Settings” appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select “Driver Assistance”. Then push the scroll dial.
2. Select “Traffic Sign” and push the scroll dial to turn the system on or off.

SYSTEM TEMPORARILY UNAVAILABLE

Condition A

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then started, the TSR system may be deactivated automatically. The “Unavailable Camera Temperature High” warning message will appear in the vehicle information display.

Action to take:

When the interior temperature is reduced, the TSR system will resume operating automatically.

Condition B

In the following conditions, the "Temporarily Disabled Camera Blocked See Owner’s Manual" warning message will appear in the vehicle information display and the system will be turned off automatically.

- The camera area of the windshield is covered with moisture, snow, ice, dirt or some other object.
- The camera area of the windshield is continuously covered with dirt, etc.

Action to take:

Check that the windshield is clean and free from ice/mist in front of the camera. If necessary, operate the Max defogging/defrosting function or heated windshield (if equipped) to clear. This may take several minutes.

When the above conditions no longer exist, the TSR system will resume automatically.

SYSTEM MALFUNCTION

If the TSR system malfunctions it will be turned off automatically and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take

If the warning message appears, pull off the road at a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the system checked by a NISSAN dealer.

SYSTEM MAINTENANCE

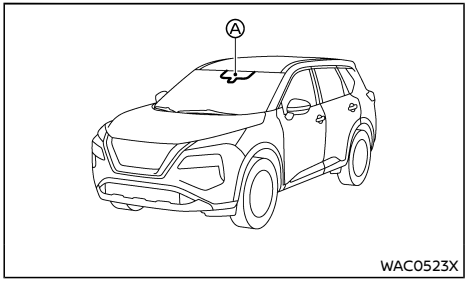
The TSR system uses the same multi-sensing front camera unit that is used by the Lane Departure Warning (LDW) system, located in front of the inside rearview mirror. For maintenance of the camera, see "System maintenance" (P.5-53).

LANE DEPARTURE WARNING (LDW) (if equipped)

WARNING:

Failure to follow the warnings and instructions for proper use of the LDW system could result in serious injury or death.

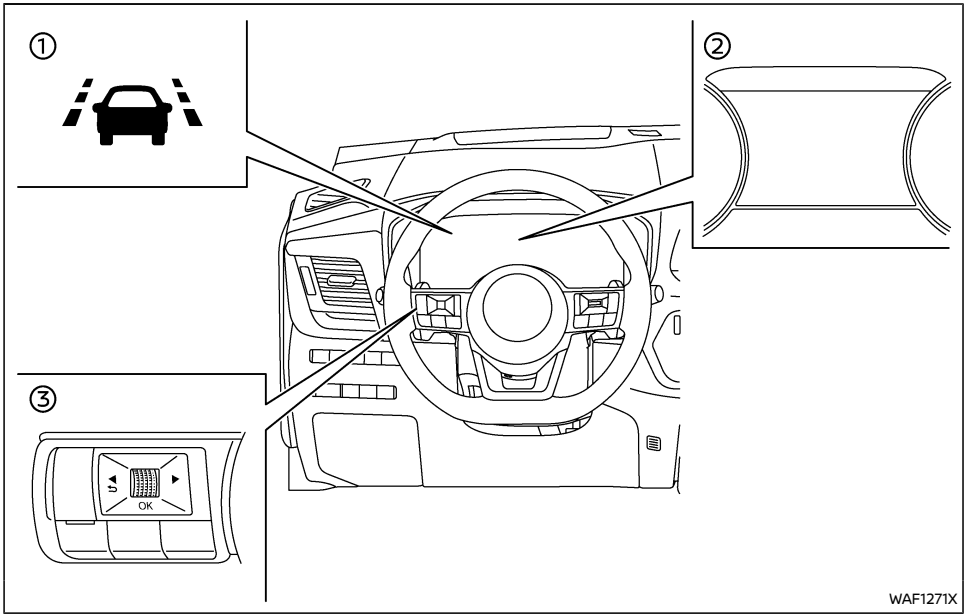
- **This system is only a warning device to inform the driver of a potential unintended lane departure. It will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**



The LDW system provides a lane departure waning function when the vehicle is driven at speeds of approximately 60 km/h (37 MPH) or 70 km/h (45 MPH) and above, and only when the lane markers are clear.

The LDW system monitors the lane markers on the traveling lane using the camera unit Ⓐ located above the inside rearview mirror.

The LDW system warns the driver that the vehicle is beginning to leave the driving lane with an indicator and a steering wheel vibration. (See "LDW system operation" (P.5-50).)



① LDW indicator (on the vehicle information display)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

LDW SYSTEM OPERATION

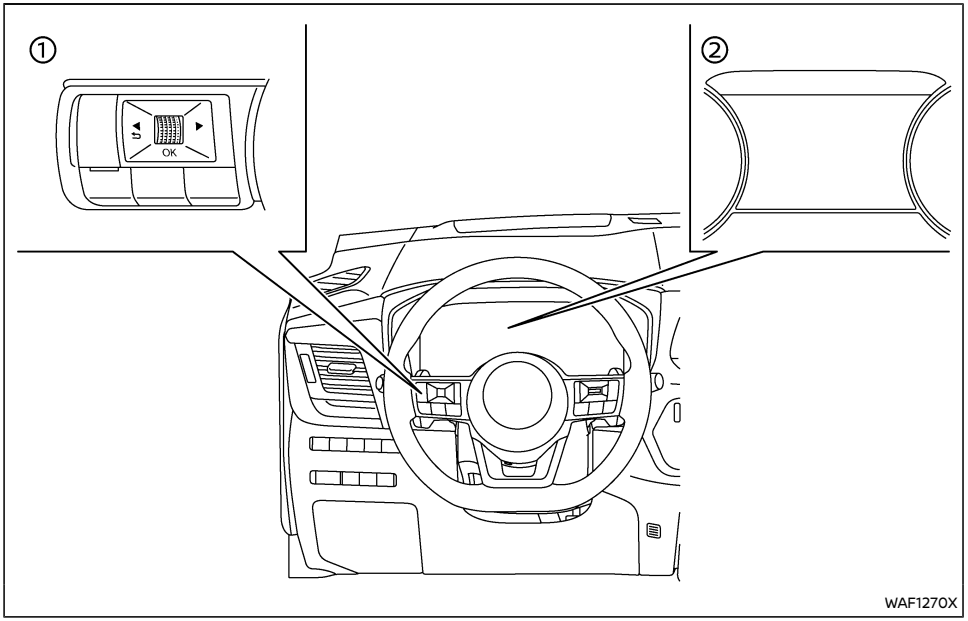
The LDW system provides a lane departure waning function when the vehicle is driven at speeds of approximately 60 km/h (37 MPH) or 70 km/h (45 MPH) and above, and only when the lane markers are clear.

When the vehicle approaches either the left or the right side of the traveling lane, the steering wheel will vibrate and the LDW indicator on the vehicle information display will blink to alert the driver.

The warning function will stop when the vehicle returns inside of the lane markers.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. (See "Driver Assistance" (P.2-22).)

HOW TO ENABLE/DISABLE THE LDW SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the LDW system.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Warning" and push the scroll dial.

NOTE:

If you disable the LDW system, the system will remain disabled the next time you start the engine.

Setting lane sensitivity

You can set lane sensitivity using the "Settings" menu in the vehicle information display.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Lane Sensitivity".
   - Strong
   - Normal
   - Mild

NOTE:

The sensitivity setting will be retained even if the engine is restarted. This setting is also applied to the Intelligent Lane Intervention system (if equipped) and Emergency Lane Assist (ELA) system (if equipped).

LDW SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the LDW system. Failure to follow the warnings and instructions for proper use of the LDW system could result in serious injury or death.

- **The system will not operate at speeds below operating speed or if it cannot detect lane markers.**
- **Do not use the LDW system under the following conditions as it may not function properly:**
  - **— During bad weather (rain, fog, snow, etc.).**

— When driving on slippery roads, such as on ice or snow.

— When driving on winding or uneven roads.

— When there is a lane closure due to road repairs.

— When driving in a makeshift or temporary lane.

— When driving on roads where the lane width is too narrow.

— When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of other tire than NISSAN certified standard tire, tire chains, non-standard wheels).

— When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.

— When towing a trailer or other vehicle (for Australia, New Zealand and South Africa).

- **The system may not function properly under the following conditions:**
  — On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.
  — On roads where discontinued lane markers are still detectable.
  — On roads where there are sharp curves.
  — On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The LDW system could detect these items as lane markers.)
  — On roads where the traveling lane merges or separates.
  — When the vehicle's traveling direction does not align with the lane marker.
  — When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
  — When rain, snow, dirt or object adheres to the windshield in front of the lane camera unit.
  — When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
  — When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
  — When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)
- **Steering wheel vibration may not be felt depending on the road surface conditions.**

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then started, the LDW system may be deactivated automatically and the following message will appear in the vehicle information display.

- "Unavailable Camera Temperature High"

When the interior temperature is reduced, the LDW system will resume operating automatically.

Condition B:

The warning function of the LDW system is not designed to work under the following conditions:

- When you operate the lane change signal and change traveling lanes in the direction of the signal. (The LDW system will become operable again approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than operating speed.

Action to take:

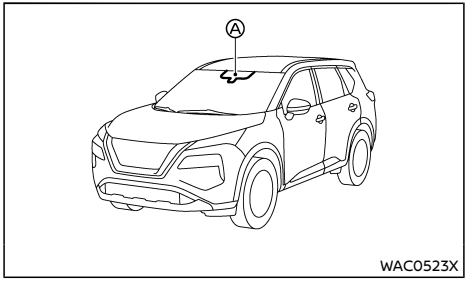
After the above conditions have finished and the necessary operating conditions are satisfied, the LDW system will resume.

SYSTEM MALFUNCTION

If the LDW system malfunctions, it will cancel automatically and "System fault See Owner's Manual" warning message will appear in the vehicle information display. If the warning message appears, pull off the road to a safe location and stop the vehicle. Place the ignition switch in the "OFF" position and restart the engine. If the warning message continues to appear, have the system checked. It is recom-

mended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The lane camera unit Ⓐ for the LDW system is located above the inside rearview mirror.

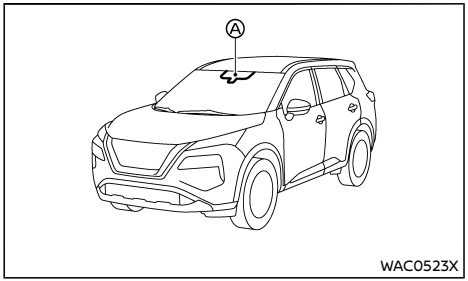
To keep the proper operation of the LDW system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

WARNING:

Failure to follow the warnings and instructions for proper use of the Intelligent Lane Intervention system could result in serious injury or death.

- **The Intelligent Lane Intervention system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The Intelligent Lane Intervention system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers in certain road, weather, or driving conditions.**

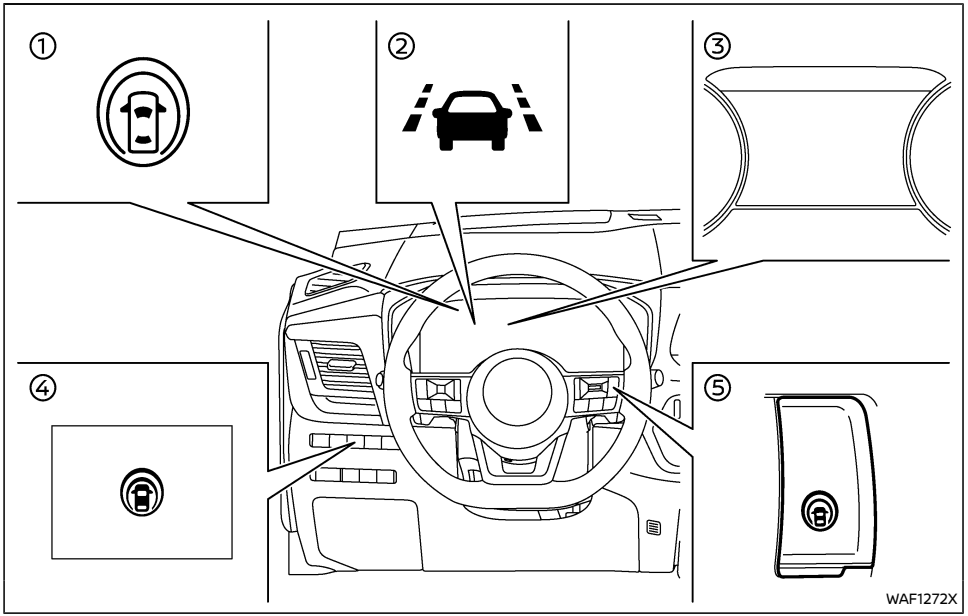


The Intelligent Lane Intervention system must be turned on with the ProPILOT switch (if equipped) on the steering wheel or the dynamic driver assistance switch (if equipped) on the driver's side instrument panel, every time the ignition is placed in the "ON" position.

The Intelligent Lane Intervention system will operate when the vehicle is driven at the speeds of approximately 60 km/h (37 MPH) or 70 km/h (45 MPH) and above, and only when the lane markers or road edge are clearly visible on the road.

The Intelligent Lane Intervention system warns the driver when the vehicle has left the center of the traveling lane with an indicator and steering wheel vibration. The system helps assist the driver to return the vehicle to the center of the traveling lane.

The Intelligent Lane Intervention system monitors the lane markers on the traveling lane using the camera unit Ⓐ located above the inside rearview mirror.



① Intelligent Lane Intervention ON indicator (on the vehicle information display)
② Intelligent Lane Intervention indicator (on the vehicle information display)
③ Vehicle information display
④ Dynamic driver assistance switch (models without ProPILOT system)
⑤ ProPILOT switch (models with ProPILOT system)

INTELLIGENT LANE INTERVENTION SYSTEM OPERATION

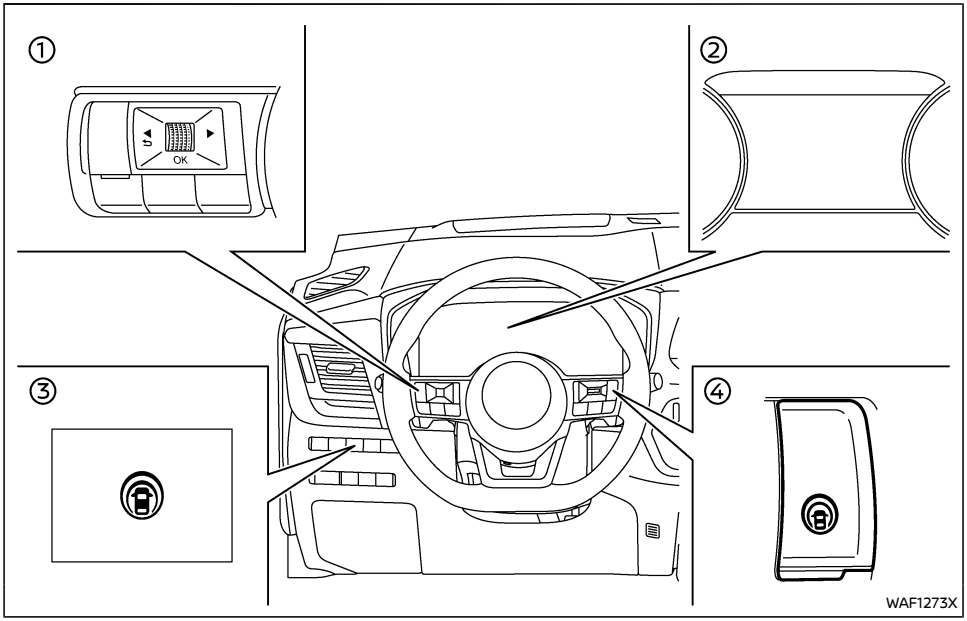
The Intelligent Lane Intervention system will operate when the vehicle is driven at the speeds of approximately 60 km/h (37 MPH) or 70 km/h (45 MPH) and above, and only when the lane markers or road edge are clearly visible on the road.

When the vehicle approaches either the left or the right side of the traveling lane, steering wheel will vibrate and the Intelligent Lane Intervention indicator (yellow) on the vehicle information display will blink to alert the driver. Then, the Intelligent Lane Intervention system will automatically apply the brakes for a short period of time to help assist the driver to return the vehicle to the center of the traveling lane.

To turn on the Intelligent Lane Intervention system, push the ProPILOT switch on the steering wheel (if equipped) or the dynamic driver assistance switch on the driver's side instrument panel (if equipped) after starting the engine. The Intelligent Lane Intervention ON indicator on the vehicle information display will illuminate. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) again to turn off the Intelligent Lane Intervention system. The Intelligent Lane Intervention ON indicator will turn off.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. (See "Driver Assistance" (P.2-22).)

HOW TO ENABLE/DISABLE THE INTELLIGENT LANE INTERVENTION SYSTEM



① Steering-wheel-mounted controls* (left side)

② Vehicle information display*

③ Dynamic driver assistance switch (models without ProPILOT system)

④ ProPILOT switch (models with ProPILOT system)

*: For models with the Intelligent Blind Spot Intervention or the ProPILOT system

For models with the Intelligent Blind Spot Intervention system or the ProPILOT system:

Perform the following steps to enable or disable the Intelligent Lane Intervention system.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Intervention" and push the scroll dial.
4. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) to turn the system on or off.

For models without the Intelligent Blind Spot Intervention system or the ProPILOT system:

To turn on the Intelligent Lane Intervention system, push the dynamic driver assistance switch. The Intelligent Lane Intervention ON indicator on the vehicle information display will appear.

To turn off the Intelligent Lane Intervention system, push the dynamic driver assistance switch again. The Intelligent Lane Intervention ON indicator on the vehicle information display will turn off.

NOTE:

- **The system will retain current settings in the vehicle information display even if the engine is restarted.**
- **Turning on the ProPILOT system (if equipped) will turn on the Intelligent Lane Intervention system and Intelligent Blind Spot Intervention system (if equipped) at the same time. If the Intelligent Lane Intervention system is disabled in the settings menu, the Intelligent Lane Intervention will automatically be turned on when the Steering Assist system is active. (See "ProPILOT/ProPILOT Assist" (P.5-109).)**
- **For model with ProPILOT system: When the Intelligent Lane Intervention system is enabled in the settings menu, the Intelligent Lane Intervention system can be turned on or off by pushing the speed limiter MAIN switch (if equipped).**

Setting lane sensitivity

See "Setting lane sensitivity" (P.5-51).

INTELLIGENT LANE INTERVENTION SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the Intelligent Lane Intervention system. Failure to follow the warnings and instructions for proper use of the Intelligent Lane Intervention system could result in serious injury or death.

- **The Intelligent Lane Intervention system may activate if you change lanes without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.**
- **Because the Intelligent Lane Intervention may not activate under the road, weather, and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave its lane and you will need to apply corrective steering.**
- **The Intelligent Lane Intervention system will not operate at speeds below operating speed or if it cannot detect lane markers.**
- **When the Intelligent Lane Intervention system is operating, avoid excessive or sudden steering maneuvers. Otherwise, you could lose control of the vehicle.**
- **Do not use the Intelligent Lane Intervention system under the following conditions as it may not function properly:**
  - **— When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of other tire than NISSAN certified standard tire, tire chains, non-standard wheels). See "Tires and Wheels" (P.8-27)**
  - **— When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.**
  - **— When towing a trailer or other vehicle (for Australia, New Zealand, and South Africa).**
  - **— During bad weather (rain, fog, snow, etc.).**
  - **— When driving on slippery roads, such as on ice or snow.**
  - **— When driving on winding or uneven roads.**
  - **— When there is a lane closure due to road repairs.**
  - **— When driving in a makeshift or temporary lane.**
  - **— When driving on roads where the lane width is too narrow.**
  - **— On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.**
  - **— On roads where discontinued lane markers are still detectable.**
  - **— On roads where there are sharp curves.**
  - **— On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The Intelligent Lane Intervention system could detect these items as lane markers.)**
  - **— On roads where the traveling lane merges or separates.**
  - **— When the vehicle's traveling direction does not align with the lane marker.**
  - **— When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.**
  - **— When rain, snow or dirt adheres to the windshield in front of the lane camera unit.**
  - **— When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.**
  - **— When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)**
  - **— When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)**
- **Steering wheel vibration may not be felt depending on the road surface conditions.**

While the Intelligent Lane Intervention system is operating, you may hear a sound of brake operation. This is normal and indicates that the Intelligent Lane Intervention system is operating properly.

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

The warning and assist functions of the Intelligent Lane Intervention system are not designed to work under the following conditions:

- When you operate the lane change signal and change the traveling lanes in the direction of the signal. (The Intelligent Lane Intervention system will be deactivated for approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than operating speed.

Action to take:

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

Condition B:

The assist function of the Intelligent Lane Intervention system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed or if the vehicle decelerates strongly.
- ●
  When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during the Intelligent Lane Intervention system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs (if equipped).
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.
- When the vehicle is making a sharp turn.
- When the Intelligent Emergency Braking with Pedestrian Detection system operates.
- When the Intelligent Blind Spot Intervention (if equipped) operates.
- When the VDC/ESP system (except Traction Control System (TCS) function) or ABS operates.

Action to take:

After the above conditions have finished and the necessary operating conditions are satisfied, the Intelligent Lane Intervention system application of the brakes will resume.

Condition C:

If the following message appears in the vehicle information display, a chime will sound and the Intelligent Lane Intervention system will be turned off automatically.

- "Unavailable Slippery Road":
  — When the VDC/ESP system (except Traction Control System (TCS) function) or ABS operates.
- "Currently Not Available":
  — When the VDC/ESP system is turned off.
  — When the SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models without the ELA system).

Action to take:

When the above conditions no longer exist, turn off the Intelligent Lane Intervention system. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) again to turn the Intelligent Lane Intervention system back on.

Temporary disabled status at high temperature:

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then the Intelligent Lane Intervention system is turned on, the Intelligent Lane Intervention system may be deactivated automatically, a chime sounds and the following message will appear on the vehicle information display:

- "Unavailable Camera Temperature High"

When the interior temperature is reduced, turn off the Intelligent Lane Intervention system. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) again to turn the Intelligent Lane Intervention system back on.

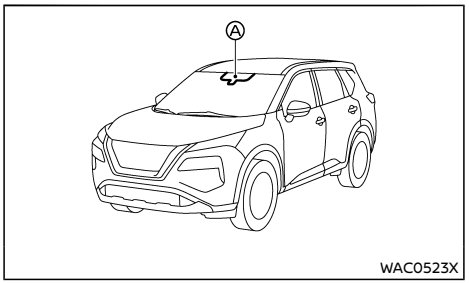
SYSTEM MALFUNCTION

If the Intelligent Lane Intervention system malfunctions, it will cancel automatically. The Intelligent Lane Intervention indicator (yellow) will illuminate, a chime will sound and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

If the Intelligent Lane Intervention indicator (yellow) illuminates, pull off the road to a safe location. Turn the engine off and restart the engine. If the indicator (yellow) continues to illuminate, have the Intelligent Lane Intervention system checked. It is recommended that you visit a NISSAN dealer for this service.

EMERGENCY LANE ASSIST (ELA) SYSTEM (Type A) (if equipped)

SYSTEM MAINTENANCE

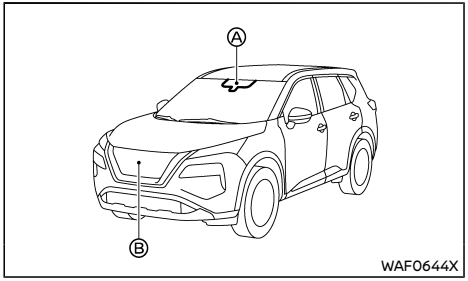


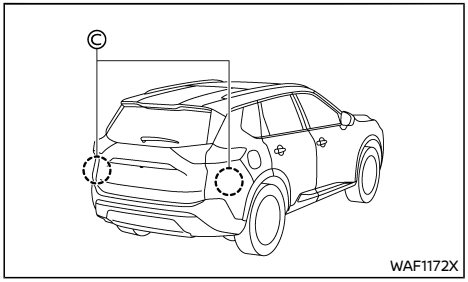
The lane camera unit Ⓐ for the Intelligent Lane Intervention system is located above the inside rearview mirror. To keep the proper operation of the Intelligent Lane Intervention system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.

Application:

Type A is for models with the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.





WARNING:

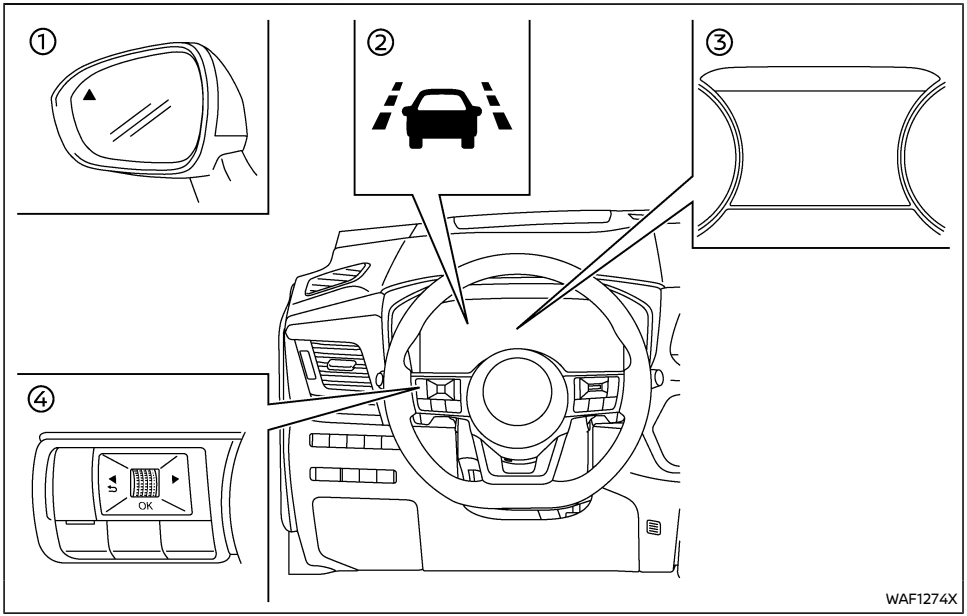
Failure to follow the warnings and instructions for proper use of the ELA system could result in serious injury or death.

- **The ELA system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The ELA system is intended to work on all roads with well defined markings or road edges, but it may not detect the road edge or lane markers in certain road, weather or driving conditions.**
- **There is a limitation to the detection capability of the sensors. Not every moving object or vehicle will be detected. Always rely on your own operation to avoid accidents.**

A part of the ELA system will be automatically turned on each time the engine is restarted. (See "How to enable/disable the ELA system" (P.5-60).)

The sensitivity of the ELA system can be adjusted, and this setting is kept until changed again by the driver.

The ELA system uses a multi-sensing front camera Ⓐ located above the inside mirror to monitors the lane markers on the traveling lane and to detect other vehicles. The ELA system also uses radar sensors Ⓑ located at the front of the vehicle and Ⓒ located near the rear bumpers to detect other vehicles.



① Side indicator light
② ELA indicator (on the vehicle information display)
③ Vehicle information display
④ Steering-wheel-mounted controls (left side)

ELA SYSTEM OPERATION

The ELA system will operate when the vehicle is driven at the speeds of approximately 60 km/h (37 MPH) and above, and only when the lane markers or road edge are clearly visible on the road.

The ELA system warns the driver when the vehicle approaches the road edge or lane markers with an indicator on the vehicle information display and steering wheel vibration. The system helps assist the driver to return the vehicle to the traveling lane by applying the brakes to the left or right wheels individually (for a short period of time) in the following circumstances:

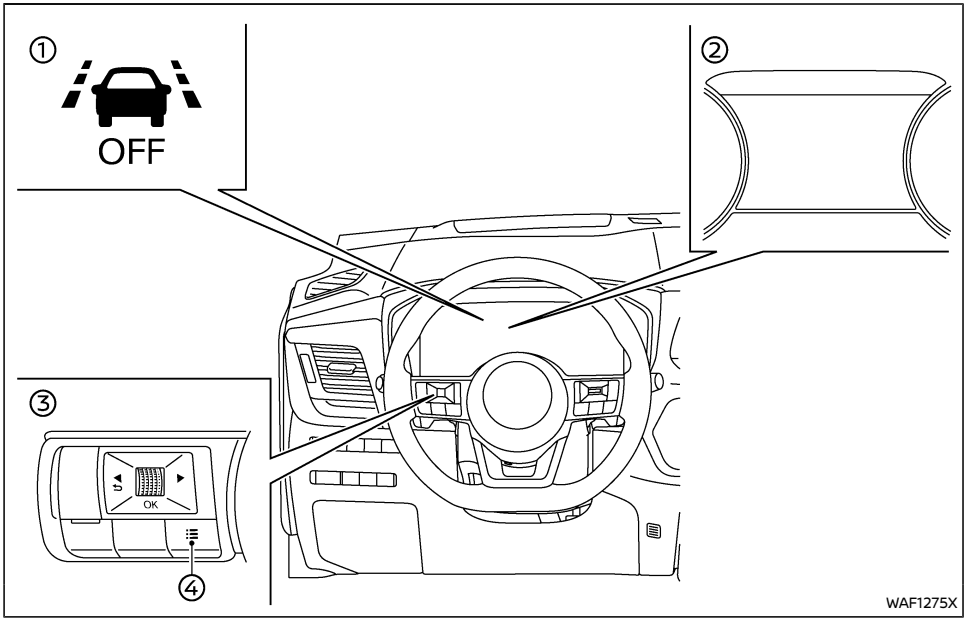
- If "Emergency Lane" is ON in the settings menu of the vehicle information display:
  — the system warns the driver when the vehicle is approaching a lane marker or road edge.
  — the system assists the driver to return the vehicle to the traveling lane when the vehicle is approaching a solid line or road edge, when the oncoming vehicles are in adjacent lanes.
  — the system warns and assists the driver to return the vehicle to the traveling lane when the overtaking vehicles are in adjacent lanes. The side indicator light will also flash.
- If "Advanced Lane" is ON in the settings menu, the system assists the driver to return the vehicle to the traveling lane when the vehicle is approaching a dashed line.

For the selection in the settings menu, see "How to enable/disable the ELA system" (P.5-60).

During brake control by the ELA system, if the system determines that the steering wheel is not being operated, the duration of the warning buzzer increases as the number of assists increases from the second assist. Even if the system determines that the steering wheel has been operated, the warning buzzer will continue to sound for a certain period of time.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. (See "Driver Assistance" (P.2-22).)

HOW TO ENABLE/DISABLE THE ELA SYSTEM



① ELA system OFF indicator (on the vehicle information display)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)
④ Shortcut menu button

Perform either of the following steps to enable or disable the ELA system.

Shortcut Menu

1. Push the shortcut menu button on the steering switch to display "Shortcut Menu".
2. Select "Driver Assist Custom" and push the scroll dial to enable the system settings.
3. Select "Custom Mode Setup" and push the scroll dial.
4. Select "Emergency Lane" and push the scroll dial to turn the system on or off.

   When "Advanced Lane" is selected, a part of the ELA system functions is turned on or off.

Settings

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Emergency Lane" and push the scroll dial to turn the system on or off.

   When "Advanced Lane" is selected, a part of the ELA system functions is turned on or off.

When "Emergency Lane" is turned off, the ELA system OFF indicator illuminates and the ELA system will be turned off.

For details, see "Vehicle information display" (P.2-21).

NOTE:

- **"Emergency Lane" will be automatically turned on each time the engine is re-started.**
- **The ON/OFF setting of "Advanced Lane" will be kept even if the engine is re-started.**

Applied road conditions:

- "Emergency Lane": Lane assist on the road with a solid line or road edge
- "Advanced Lane": Lane assist on the road with a dashed line

NOTE:

Warning function will be automatically turned on each time the engine system is restarted.

Setting lane sensitivity

You can set lane sensitivity using the "Settings" menu in the vehicle information display.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Lane Sensitivity".
   - Strong
   - Normal
   - Mild

NOTE:

The sensitivity setting will be retained even if the engine is restarted.

Even if the ELA system is disabled in the "Settings" menu, the ELA system will automatically be turned on when the Steering Assist system (if equipped) is active. (After that, when the Steering Assist system stops operating, the ELA system state returns to the state before the Steering Assist system operated.)

ELA SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the ELA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The ELA system may activate if you cross a lane marker or road edge without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.**
- **Because the ELA system may not activate under the road, weather and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave the traveling lane and you will need to apply corrective steering.**
- **The ELA system will not operate at speeds below operating speed or if it cannot detect lane markers.**
- **When the ELA system detects oncoming vehicles in adjacent lanes, the ELA system will not operate at speeds above approximately 120 km/h (74 MPH).**
- **Do not use the ELA system under the following conditions, there could be serious affect on vehicle safety with risk of an accident and injury or death.**
  - **— When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of other tire than NISSAN certified standard tire, tire chains, non-standard wheels). See "Tires and Wheels" (P.8-27).**
  - **— When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.**
  - **— When towing a trailer or other vehicle.**
- **The ELA system may not function properly in the following conditions:**
  - **— During bad weather (rain, fog, snow, etc.).**
  - **— When driving on slippery roads, such as on ice or snow.**
  - **— When driving on winding or uneven roads.**
  - **— When there is a lane closure due to road repairs.**
  - **— When driving in a makeshift or temporary lane.**
  - **— When driving on roads where the lane width is too narrow.**
  - **— On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.**
  - **— On roads where the edge of the road is not clearly visible.**
  - **— On roads where discontinued lane markers are still detectable.**
  - **— On roads where there are sharp curves.**
  - **— On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The ELA system could detect these items as lane markers.)**

— On roads where the traveling lane merges or separates.

— When the vehicle's traveling direction does not align with the lane marker.

— When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.

— When rain, snow, dirt or object adheres to the windshield in front of the lane camera unit.

— When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.

— When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)

— When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)

- Steering wheel vibration may not be felt depending on the road surface conditions.

Listed below are the system limitations for the overtaking detection feature of the ELA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The ELA system cannot detect all overtaking vehicles under all conditions.
- The radar sensors may not be able to detect and activate ELA when certain objects are present such as:
  — Pedestrians, bicycles, animals.
  — Vehicles such as motorcycles, low height vehicles, or vehicles with high ground clearance.
  — Vehicles remaining in the detection zone when you accelerate from a stop.
  — A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.
  — A vehicle approaching rapidly from behind.
  — A vehicle which your vehicle overtakes rapidly.
  — A vehicle that passes through the detection zone quickly.
- The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.
- The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.
- The following conditions may reduce the ability of the radar to detect other vehicles:
  — Severe weather
  — Road spray
  — Ice/frost/dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.

Listed below are the system limitations for the oncoming detection feature of the ELA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The ELA system cannot detect all oncoming vehicles under all conditions.
- The following are not detected as oncoming vehicles:
  — Pedestrians, bicycles, animals.
  — Vehicles such as motorcycles, low height vehicles, or vehicles with high ground clearance.
  — Parked vehicles or low speed vehicles.
  — Oncoming vehicles on the same lane.
- The ELA system may not function properly or detect an oncoming vehicle in the following conditions:
  — In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke and road spray from other vehicles).
  — If dirt, ice, snow, fog or other material is covering the radar sensor area or camera area of the windshield.
  — If strong light (for example, sunlight or high beams) enters the front camera or a sudden change in brightness occurs (for example, entering a tunnel or driving in lightning).
  — In dark or dimly lit conditions, such as at night or in tunnels, including cases where your vehicle's headlights are off or dim, or the tail lights of the

vehicle ahead are off.

— When the direction of the camera is misaligned.

— When driving on a steep downhill slope, on roads with sharp curves, and/or bumpy or dirt roads.

— If there is interference from other radar sources.

— When your vehicle's position or movement is changed quickly or significantly (for example, lane change, turning vehicle, abrupt steering, sudden acceleration or deceleration).

— If the vehicle ahead has a unique or unusual shape, extremely low or high clearance heights, or unusual cargo loading or is narrow (for example, a motorcycle).

- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**

NOTE:

While the ELA system is operating, you may hear a sound of brake operation. This is normal and indicates that the ELA system is operating properly.

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

The warning and assist functions of the ELA system are not designed to work under the following conditions:

- When you operate the lane change signal and change the traveling lanes in the direction of the signal. (The ELA system will be deactivated for approximately 2 seconds after the lane change signal is turned off). This does not apply if an overtaking vehicle is detected.
- When the vehicle speed lowers to less than operating speed.
- When an oncoming vehicle is detected and the vehicle speed is over approximately 120 km/h (74 MPH).

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

Condition B:

The assist function of the ELA system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed or if the vehicle decelerates strongly.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during the ELA system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs (if equipped).
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.
- When the vehicle is making a sharp turn.
- When the Intelligent Emergency Braking with Pedestrian Detection system operates.
- When the ESP system (except Traction Control System (TCS) function) or ABS operates.

After the above conditions have finished and the necessary operating conditions are satisfied, the ELA system application of the brakes will resume.

Condition C:

If the ESP system is turned OFF, the ELA system will be turned off automatically, the "Currently Unavailable ESP OFF" warning message will appear and the ELA indicator (yellow) will illuminate in the vehicle information display.

When the ESP system turns ON again and the necessary operating conditions are satisfied, the ELA system application of the brakes will resume.

Condition D:

If one of the following messages appears and the ELA indicator illuminates in the vehicle information display, the ELA system will be turned off automatically:

- "Temporarily Disabled Side Radar Blocked See Owner's Manual": When the rear side radar is blocked. Always keep the area near the radar sensors clean.
- "Temporarily Disabled Front Radar Blocked See Owner's Manual": When the front radar is blocked. Always keep the area near the radar sensor clean.
- "Temporarily Disabled Camera Blocked See Owner's Manual": When the front camera is blocked. Always keep the area near the front camera clean.
- "Currently Unavailable Front Camera High Temperature": If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then the ELA system is turned on, the ELA system may be deactivated automatically and the ELA indicator illuminates.
- "Currently Not Available": When the direction of the front camera is significantly misaligned. Have the system checked. It is recommended that you visit a NISSAN

dealer for this service.

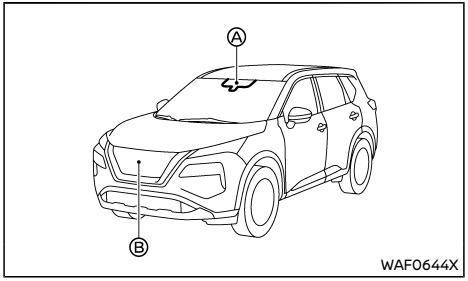
SYSTEM MALFUNCTION

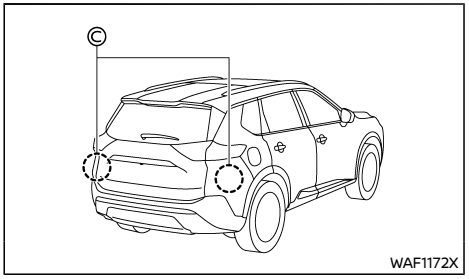
When the ELA system malfunctions, it will cancel automatically. The ELA indicator (yellow) will illuminate, the "System fault See Owner's Manual" warning message will appear in the vehicle information display and a chime will sound.

Action to take

If the warning message appears, pull off the road to a safe and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the ELA system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE





The camera Ⓐ is located on the upper side of the windshield. The front radar sensor Ⓑ is located on the front of the vehicle. To keep the ELA system operating properly, be sure to observe the following:

- Always keep the sensor area on the windshield and the front of the vehicle clean.
- Do not strike or damage the areas around the sensors (windshield, bumper).
- Do not cover or attach stickers or similar objects on the front of the vehicle near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the radar sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability of detecting lane markers.
- Do not alter, remove or paint the front of the vehicle near the sensor area. Before customizing or restoring the sensor area, it is recommended that you visit a NISSAN dealer.

The two radar sensors Ⓒ for the ELA system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as snow, splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

Precautions on repairing the bumper

When repairing the bumper, take caution because the radar sensors are installed on the bumper.

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

WARNING:

If an improper repair is performed on the bumper (for example, application of putty made from different materials, repaint, etc.) the radar signal could be weakened or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly. Improper repair may result in serious personal injury. If it is necessary to repair the bumper, it is recommended you visit a NISSAN dealer for this service.

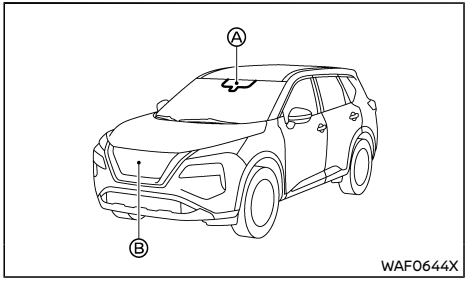
Radio frequency statement

For the radio approval numbers and information, see "Radio approval number and information" (P.9-15).

EMERGENCY LANE ASSIST (ELA) SYSTEM (Type B) (if equipped)

Application:

Type B is for models without the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.



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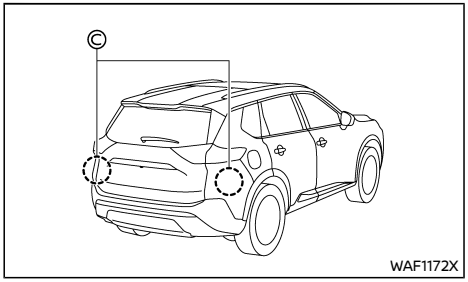

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WARNING:

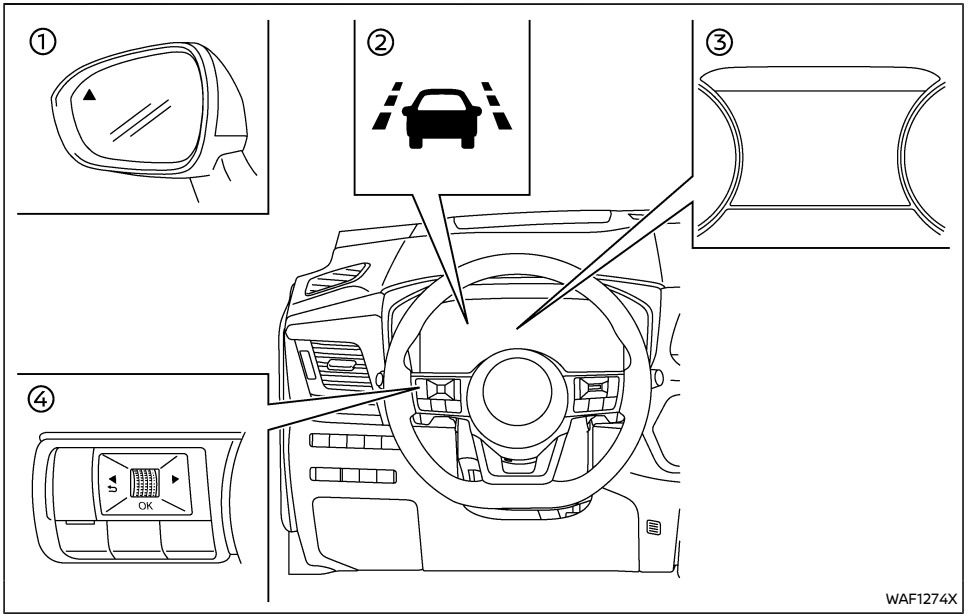
Failure to follow the warnings and instructions for proper use of the ELA system could result in serious injury or death.

- **The ELA system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The ELA system is intended to work on all roads with well defined markings or road edges, but it may not detect the road edge or lane markers in certain road, weather or driving conditions.**
- **There is a limitation to the detection capability of the sensors. Not every moving object or vehicle will be detected. Always rely on your own operation to avoid accidents.**

The ELA system will be automatically turned on each time the engine is restarted.

The sensitivity of the ELA system can be adjusted, and this setting is kept until changed again by the driver.

The ELA system uses a multi-sensing front camera Ⓐ located above the inside mirror to monitors the lane markers on the traveling lane and to detect other vehicles. The ELA system also uses radar sensors Ⓑ located at the front of the vehicle and Ⓒ located near the rear bumpers to detect other vehicles.



① Side indicator light
② ELA indicator (on the vehicle information display)
③ Vehicle information display
④ Steering-wheel-mounted controls (left side)

ELA SYSTEM OPERATION

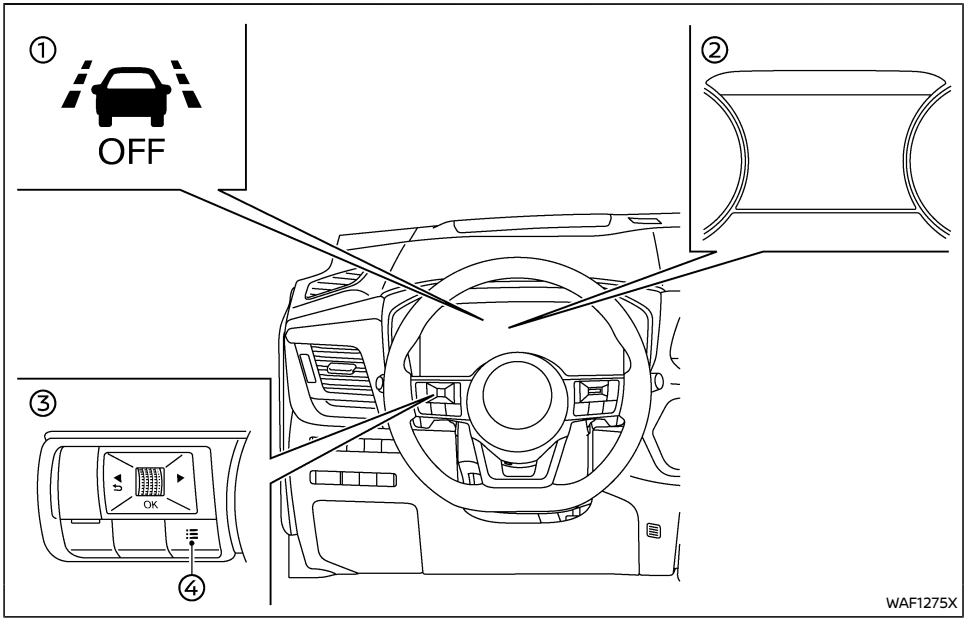
The ELA system will operate when the vehicle is driven at speeds of approximately 60 km/h (37 MPH) or 70 km/h (45 MPH) and above, and only when the lane markers or road edge are clearly visible on the road.

The ELA system warns the driver when the vehicle approaches the road edge or solid white line with an indicator on the vehicle information display and steering wheel vibration. The system helps assist the driver to return the vehicle to the traveling lane by applying the brakes to the left or right wheels individually (for a short period of time) in the following circumstances:

- The vehicle is approaching the edge of the road, towards grass or gravel or a kerb, for example.
- The vehicle is approaching a solid line on a single lane marking.
- Oncoming vehicles in adjacent lanes.
- Overtaking vehicles in adjacent lanes. The side indicator light will also flash.
- Intelligent Lane intervention can be turned on to provide assistance in lanes on motorway/dual carriage ways.

The strength of the steering wheel vibration can be changed in the settings menu of the vehicle information display. (See “Driver Assistance” (P.2-22).)

HOW TO ENABLE/DISABLE THE ELA SYSTEM



① ELA system OFF indicator (on the vehicle information display)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)
④ Shortcut menu button

Perform either of the following steps to enable or disable the ELA system.

Shortcut Menu

1. Push the shortcut menu button on the steering switch to display "Shortcut Menu".
2. Select "Emergency Lane" and push the scroll dial to turn the system on or off.

Settings

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Emergency Lane" and push the scroll dial to turn the system on or off.

When the ELA system is turned off, the ELA system OFF indicator illuminates.

For details, see "Vehicle information display" (P.2-21).

NOTE:

- **The ELA system will be automatically turned on each time the engine is re-started.**
- **The Intelligent Lane Intervention is an additional aid that can be turned on in addition to the ELA system if required. For details, see "Intelligent Lane Intervention" (P.5-53).**

Setting lane sensitivity

You can set lane sensitivity using the "Settings" menu in the vehicle information display.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Lane" and push the scroll dial.
3. Select "Lane Sensitivity".
   - Strong
   - Normal
   - Mild

NOTE:

The sensitivity setting will be retained even if the engine is restarted. This setting is also applied to the Lane Departure Warning (LDW) and Intelligent Lane Intervention systems.

Even if the ELA system is disabled in the "Settings" menu, the ELA system will automatically be turned on when the Intelligent Lane Intervention system or the Steering Assist (if equipped) is active.

ELA SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the ELA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The ELA system may activate if you cross a solid lane marker without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.
- Because the ELA system may not activate under the road, weather and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave the traveling lane and you will need to apply corrective steering.
- The ELA system will not operate at speeds below operating speed or if it cannot detect lane markers.
- When the ELA system detects oncoming vehicles in adjacent lanes, the ELA system will not operate at speeds above approximately 120 km/h (74 MPH).
- Do not use the ELA system under the following conditions, there could be serious affect on vehicle safety with risk of an accident and injury or death.
  - When driving without normal tire conditions (for example, tire wear, low tire pressure, installation of other tire than NISSAN certified standard tire, installation of spare tire, tire chains, non-standard wheels). See "Tires and Wheels" (P.8-27).
  - When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.
  - When towing a trailer or other vehicle (for Australia, New Zealand and South Africa).
- The ELA system may not function properly in the following conditions:
  - During bad weather (rain, fog, snow, etc.).
  - When driving on slippery roads, such as on ice or snow.
  - When driving on winding or uneven roads.
  - When there is a lane closure due to road repairs.
  - When driving in a makeshift or temporary lane.
  - When driving on roads where the lane width is too narrow.
  - On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.
  - On roads where the edge of the road is not clearly visible.
  - On roads where discontinued lane markers are still detectable.
  - On roads where there are sharp curves.
  - On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The ELA system could detect these items as lane markers.)
  - On roads where the traveling lane merges or separates.
  - When the vehicle's traveling direction does not align with the lane marker.
  - When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
  - When rain, snow, dirt or object adheres to the windshield in front of the lane camera unit.
  - When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
  - When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
  - When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)
- Steering wheel vibration may not be felt depending on the road surface conditions.

Listed below are the system limitations for the overtaking detection feature of the ELA system. Failure to operate the vehicle in accordance with these system limitations

could result in serious injury or death.

- The ELA system cannot detect all overtaking vehicles under all conditions.
- The radar sensors may not be able to detect and activate ELA when certain objects are present such as:
  - Pedestrians, bicycles, animals.
  - Vehicles such as motorcycles, low height vehicles, or vehicles with high ground clearance.
  - Vehicles remaining in the detection zone when you accelerate from a stop.
  - A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.
  - A vehicle approaching rapidly from behind.
  - A vehicle which your vehicle overtakes rapidly.
  - A vehicle that passes through the detection zone quickly.
- The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.
- The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.
- The following conditions may reduce the ability of the radar to detect other vehicles:
  - Severe weather
  - Road spray
  - Ice/frost/dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.

Listed below are the system limitations for the oncoming detection feature of the ELA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The ELA system cannot detect all oncoming vehicles under all conditions.
- The following are not detected as oncoming vehicles:
  - Pedestrians, bicycles, animals.
  - Vehicles such as motorcycles, low height vehicles, or vehicles with high ground clearance.
  - Parked vehicles or low speed vehicles.
  - Oncoming vehicles on the same lane.
- The ELA system may not function properly or detect an oncoming vehicle in the following conditions:
  - In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke and road spray from other vehicles).
  - If dirt, ice, snow, fog or other material is covering the radar sensor area or camera area of the windshield.
  - If strong light (for example, sunlight or high beams) enters the front camera or a sudden change in brightness occurs (for example, entering a tunnel or driving in lightning).
  - In dark or dimly lit conditions, such as at night or in tunnels, including cases where your vehicle's headlights are off or dim, or the tail lights of the vehicle ahead are off.
  - When the direction of the camera is misaligned.
  - When driving on a steep downhill slope, on roads with sharp curves, and/or bumpy or dirt roads.
  - If there is interference from other radar sources.
  - When your vehicle's position or movement is changed quickly or significantly (for example, lane change, turning vehicle, abrupt steering, sudden acceleration or deceleration).
  - If the vehicle ahead has a unique or unusual shape, extremely low or high clearance heights, or unusual cargo loading or is narrow (for example, a motorcycle).
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

NOTE:

While the ELA system is operating, you may hear a sound of brake operation. This is normal and indicates that the ELA system is operating properly.

SYSTEM TEMPORARILY UNAVAILABLE

Condition A:

The warning and assist functions of the ELA system are not designed to work under the following conditions:

- When you operate the lane change signal and change the traveling lanes in the direction of the signal. (The ELA system will be deactivated for approximately 2 seconds after the lane change signal is turned off). This does not apply if an overtaking vehicle is detected.
- When the vehicle speed lowers to less than operating speed.
- When an oncoming vehicle is detected and the vehicle speed is over approximately 120 km/h (74 MPH).

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

Condition B:

The assist function of the ELA system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed or if the vehicle decelerates strongly.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during the ELA system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs (if equipped).
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.
- When the vehicle is making a sharp turn.
- When the Intelligent Emergency Braking with Pedestrian Detection system operates.
- When the VDC/ESP system (except Traction Control System (TCS) function) or ABS operates.

After the above conditions have finished and the necessary operating conditions are satisfied, the ELA system application of the brakes will resume.

Condition C:

If the VDC/ESP system is turned OFF, the ELA system OFF indicator appears and the ELA system will be turned off automatically.

When the VDC/ESP system turns ON again and the necessary operating conditions are satisfied, the ELA system application of the brakes will resume.

Condition D:

If one of the following messages appears in the vehicle information display and the ELA indicator blinks in the vehicle information display, the ELA system will be turned off automatically:

- "Not available Side radar obstructed": When the rear side radar is blocked. Always keep the area near the radar sensors clean.
- "Temporarily Disabled Front Radar Blocked": When the front radar is blocked. Always keep the area near the radar sensor clean.
- "Unavailable Low Visibility": When the front camera is blocked. Always keep the area near the front camera clean.
- If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)) and then the ELA system is turned on, the ELA system may be deactivated automatically and the ELA indicator blinks.

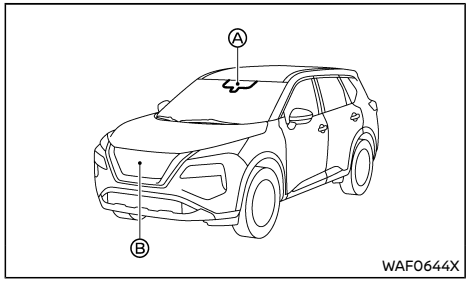
SYSTEM MALFUNCTION

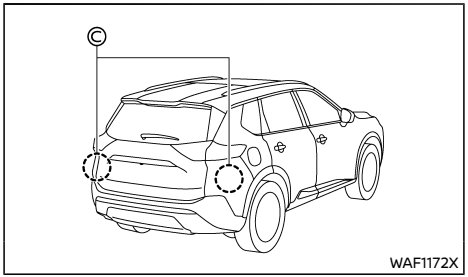
When the ELA system malfunctions, it will cancel automatically. The ELA indicator (yellow) will illuminate, the "System fault See Owner's Manual" warning message will appear in the vehicle information display and a chime will sound.

Action to take

If the warning message appears, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the ELA system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE





The camera Ⓐ is located on the upper side of the windshield. The front radar sensor Ⓑ is located on the front of the vehicle. To keep the ELA system operating properly, be sure to observe the following:

- Always keep the sensor area on the front of the vehicle and windshield clean.
- Do not strike or damage the areas around the sensors (windshield, bumper).
- Do not cover or attach stickers or similar objects on the front of the vehicle near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the radar sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability of detecting lane markers.
- Do not alter, remove or paint the front of the vehicle near the sensor area. Before customizing or restoring the sensor area, it is recommended that you visit a NISSAN dealer.

The two radar sensors Ⓒ for the ELA system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as snow, splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

Precautions on repairing the bumper

When repairing the bumper, take caution because the radar sensors are installed on the bumper.

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

WARNING:

If an improper repair is performed on the bumper (for example, application of putty made from different materials, repaint, etc.) the radar signal could be weakened or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly. Improper repair may result in serious personal injury. If it is necessary to repair the bumper, it is recommended you visit a NISSAN dealer for this service.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

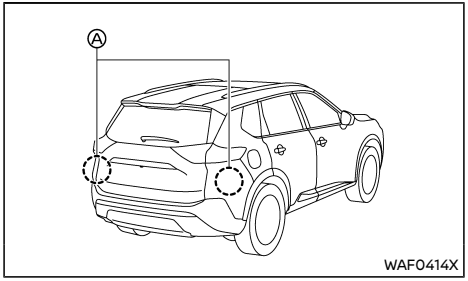
For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

WARNING:

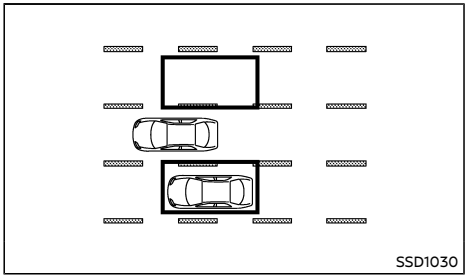
Failure to follow the warnings and instructions for proper use of the BSW system could result in serious injury or death.

- **The BSW system is not a replacement for proper driving procedure and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the BSW system.**

The BSW system helps alert the driver of other vehicles in adjacent lanes when changing lanes.

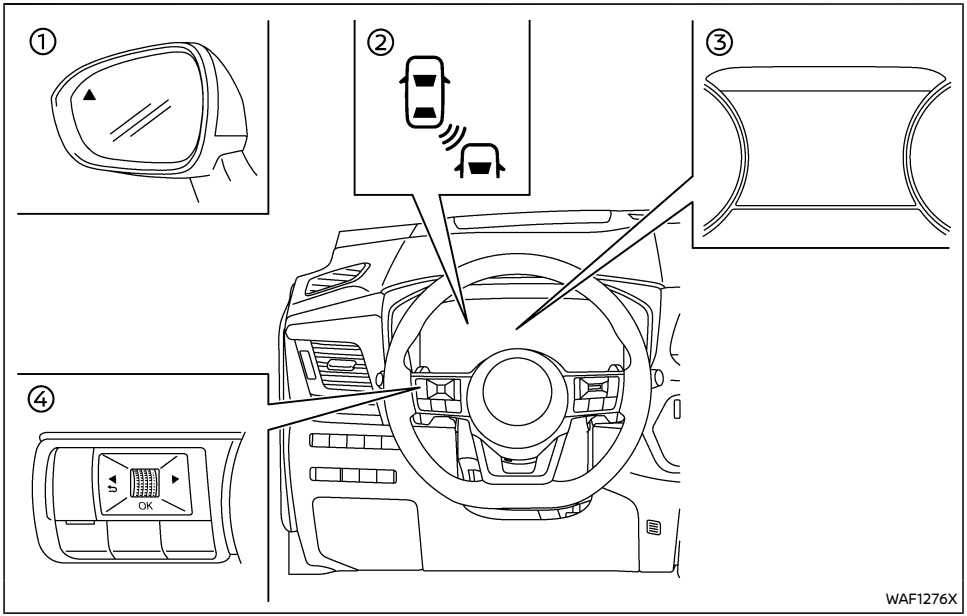


The BSW system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated. This detection zone starts from the outside rearview mirror of your vehicle and extends approximately 3.0 m (10 ft) behind the rear bumper, and approximately 3.0 m (10 ft) sideways.



① Side indicator light
② BSW indicator (on the vehicle information display)
③ Vehicle information display
④ Steering-wheel-mounted controls (left side)

BSW SYSTEM OPERATION

The BSW system operates above approximately 32 km/h (20 MPH).

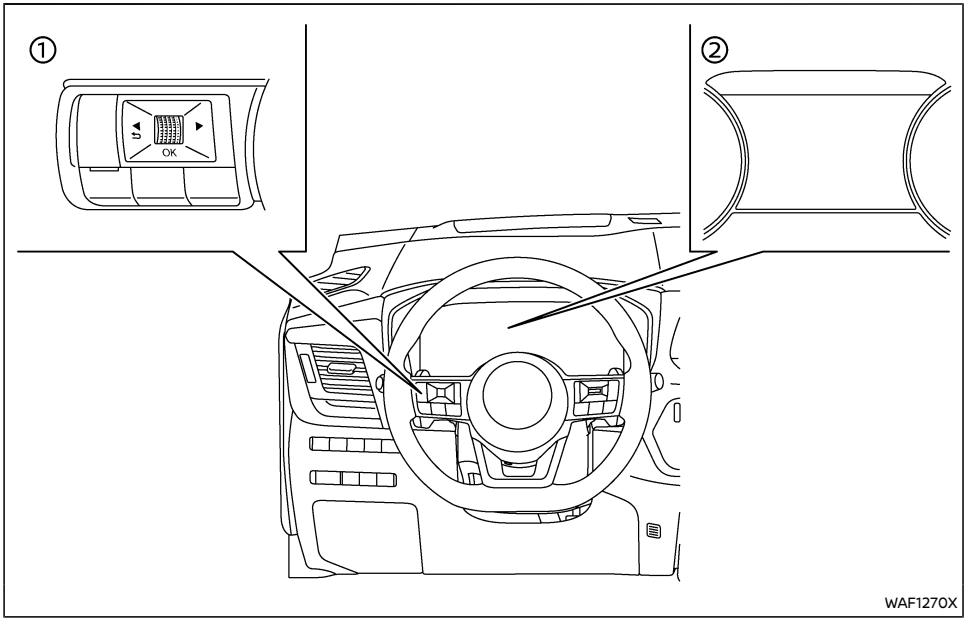
If the radar sensors detect a vehicle in the detection zone, the side indicator light illuminates.

If the turn signal is then activated, the system chimes (twice) and the side indicator light and BSW indicator flash. The side indicator light and BSW indicator continue to flash until the detected vehicle leaves the detection zone.

The side indicator light illuminates for a few seconds when the ignition switch is placed in the "ON" position.

The brightness of the side indicator light is adjusted automatically depending on the brightness of the ambient light.

HOW TO ENABLE/DISABLE THE BSW SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the BSW system.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
2. Select "Blind Spot" and push the scroll dial.
3. Select "Warning" and push the scroll dial.

NOTE:

The system will retain current settings in the vehicle information display even if the engine is restarted.

BSW SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the BSW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The BSW system cannot detect all vehicles under all conditions.**
- **The radar sensors may not be able to detect and activate BSW when certain objects are present such as:**
  - **— Pedestrians, bicycles, animals.**
  - **— Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.**
  - **— Oncoming vehicles.**
  - **— Vehicles remaining in the detection zone when you accelerate from a stop.**
  - **— A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.**
  - **— A vehicle approaching rapidly from behind.**
  - **— A vehicle which your vehicle overtakes rapidly.**
  - **— A vehicle that passes through the detection zone quickly.**
  - **— When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**

- **The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.**
- **The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **— Severe weather**
  - **— Road spray**
  - **— Ice/frost/dirt build-up on the vehicle**
- **Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.**
- **Do not use the BSW system when towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe). The system may not function properly.**
- **Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

BSW DRIVING SITUATIONS

Indicator on

Indicator off

Indicator flashing

Another vehicle approaching from behind

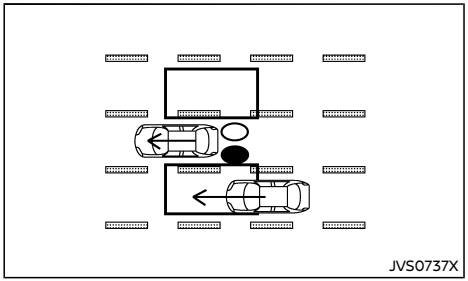


Illustration 1 – Approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

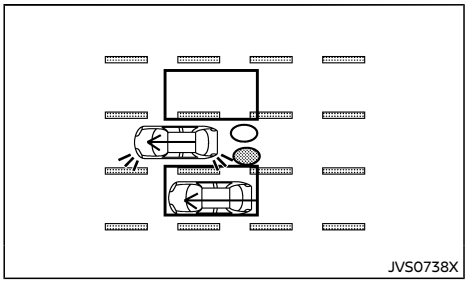


Illustration 2 – Approaching from behind

Illustration 2: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flash.

NOTE:

The radar sensors may not detect vehicles which are approaching rapidly from behind.

Overtaking another vehicle

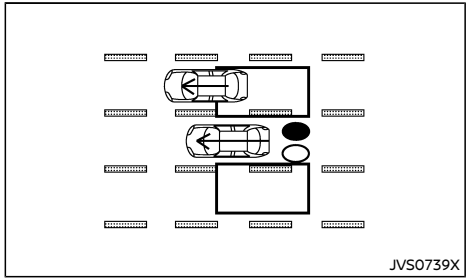


Illustration 3 – Overtaking another vehicle

Illustration 3: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 2 seconds.

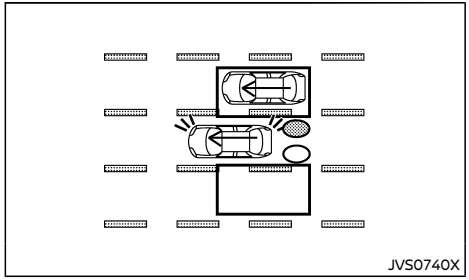


Illustration 4 – Overtaking another vehicle

Illustration 4: If the driver activates the turn

signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flash.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**
- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**
- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and BSW indicator will flash but no chime will sound when the other vehicle is detected.**

Entering from the side

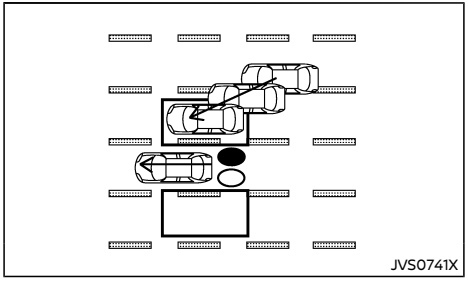


Illustration 5 – Entering from the side

Illustration 5: The side indicator light illuminates if a vehicle enters the detection zone from either side.

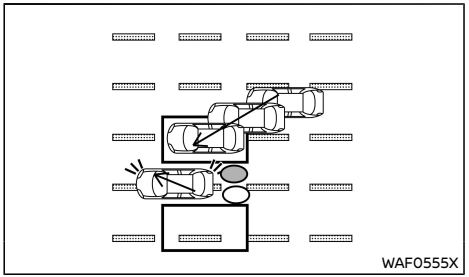


Illustration 6 – Entering from the side

Illustration 6: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light and BSW indicator flash.

NOTE:

- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**

SYSTEM TEMPORARILY UNAVAILABLE

When radar blockage is detected, the BSW system will be turned off automatically and the "Not available Side radar obstructed" warning message will appear in the vehicle information display.

The system is not available until the conditions no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

NOTE:

If the BSW system stops working, the Intelligent Blind Spot Intervention (if equipped) and the Rear Cross Traffic Alert (RCTA) system will also stop working.

Action to take:

When the above conditions no longer exist, the system will resume automatically.

SYSTEM MALFUNCTION

When the BSW system malfunctions, it will be turned off automatically and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

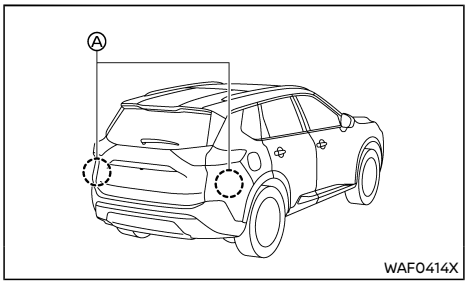
NOTE:

If the BSW system stops working, the Intelligent Blind Spot Intervention (if equipped) and the Rear Cross Traffic Alert (RCTA) system will also stop working.

Action to take:

Stop the vehicle in a safe location, turn the engine off and restart the engine. If the message continues to appear, have the BSW system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The two radar sensors Ⓐ for the BSW system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

See a NISSAN dealer or other authorized repair shop if the area around the radar sensors is damaged due to a collision.

Precautions on repairing the bumper

When repairing the bumper, take caution because the radar sensors are installed on the bumper.

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

WARNING:

If an improper repair is performed on the bumper (for example, application of putty made from different materials, repaint, etc.) the radar signal could be weakened or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly. Improper repair may result in serious personal injury. If it is necessary to repair the bumper, it is recommended you visit a NISSAN dealer for this service.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

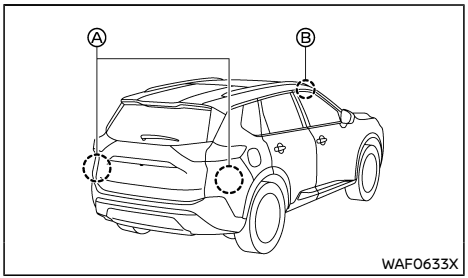
INTELLIGENT BLIND SPOT INTERVENTION (if equipped)

WARNING:

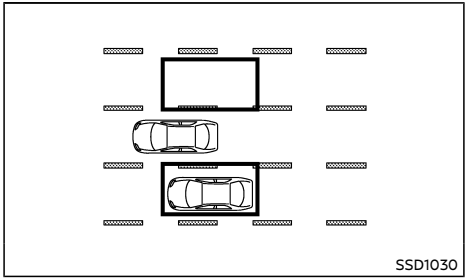
Failure to follow the warnings and instructions for proper use of the Intelligent Blind Spot Intervention system could result in serious injury or death.

- **The Intelligent Blind Spot Intervention system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the Intelligent Blind Spot Intervention system.**
- **There is a limitation to the detection capability of the radar. Not every moving object or vehicle will be detected. Using the Intelligent Blind Spot Intervention system under some road, ground, lane marker, traffic or weather conditions could lead to improper system operation. Always rely on your own operation to avoid accidents.**

The Intelligent Blind Spot Intervention system helps alert the driver of other vehicles in adjacent lanes when changing lanes, and helps assist the driver to return the vehicle to the center of the traveling lane.



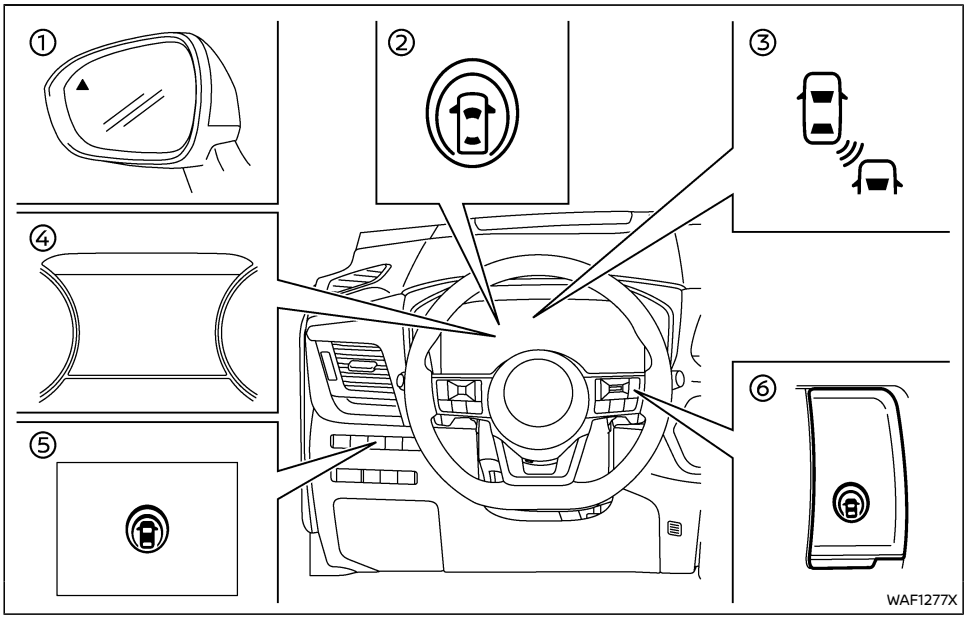
The Intelligent Blind Spot Intervention system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane. In addition to the radar sensors, the Intelligent Blind Spot Intervention system uses a camera Ⓑ installed behind the windshield to monitor the lane markers of your traveling lane.



Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated.

This detection zone starts from the outside mirror of your vehicle and extends approximately 3.0 m (10 ft) behind the rear bumper, and approximately 3.0 m (10 ft) sideways.



① Side indicator light
② Intelligent Blind Spot Intervention ON indicator (on the vehicle information display)
③ Intelligent Blind Spot Intervention indicator (on the vehicle information display)
④ Vehicle information display
⑤ Dynamic driver assistance switch (models without ProPILOT system)
⑥ ProPILOT switch (models with ProPILOT system)

INTELLIGENT BLIND SPOT INTERVENTION SYSTEM OPERATION

The Intelligent Blind Spot Intervention system operates above approximately 60 km/h (37 MPH).

If the radar sensors detect a vehicle in the detection zone, the side indicator light illuminates.

If the turn signal is then activated, the system chimes (twice) and the side indicator light and Intelligent Blind Spot Intervention indicator flash. The side indicator light and Intelligent

Blind Spot Intervention indicator continue to flash until the detected vehicle leaves the detection zone.

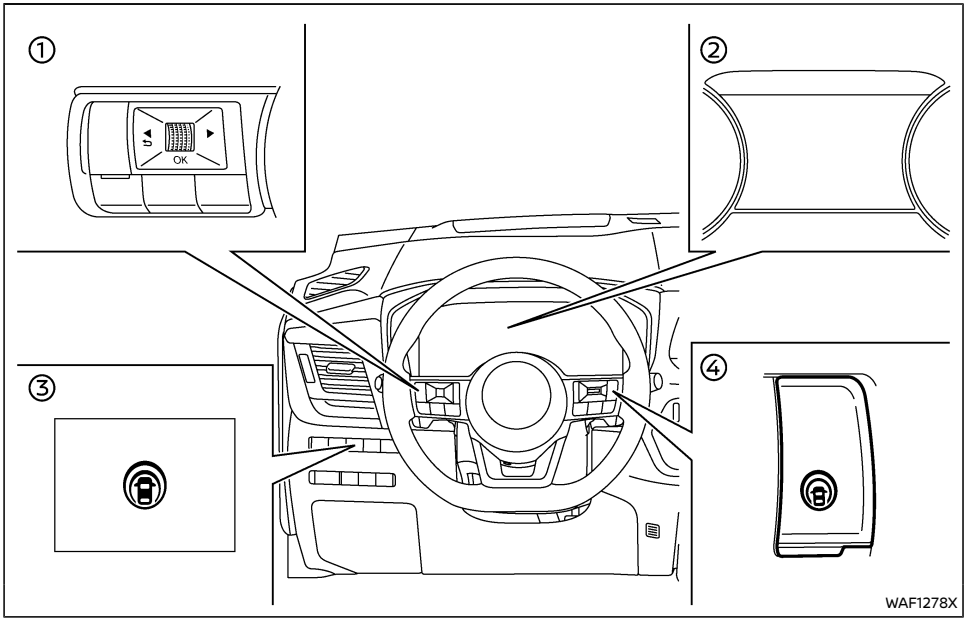
If the Intelligent Blind Spot Intervention system is ON and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and Intelligent Blind Spot Intervention indicator flash. The Intelligent Blind Spot Intervention system activates by applying the brakes on one side of the vehicle for a short period of time to help return the vehicle back to the center of the driving lane. The Intelligent Blind Spot Intervention system operates regardless of turn signal usage.

To turn on the Intelligent Blind Spot Intervention system, push the ProPILOT switch on the steering wheel (if equipped) or the dynamic driver assistance switch on the driver's side instrument panel (if equipped) after starting the engine. The Intelligent Blind Spot Intervention ON indicator on the vehicle information display will illuminate. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) again to turn off the Intelligent Blind Spot Intervention system.

NOTE:

- **Intelligent Blind Spot Intervention warning and system application will only be activated if the side indicator light is already illuminated when your vehicle approaches a lane marker. If another vehicle comes into the detection zone after your vehicle has crossed a lane marker, no Intelligent Blind Spot Intervention warning or system application will be activated. (For additional information, see "Intelligent Blind Spot Intervention driving situations" (P.5-82).)**
- **The Intelligent Blind Spot Intervention system is typically activated earlier than the Intelligent Lane Intervention system when your vehicle is approaching a lane marker.**

HOW TO ENABLE/DISABLE THE INTELLIGENT BLIND SPOT INTERVENTION SYSTEM



① Steering-wheel-mounted control (left side)

② Vehicle information display

③ Dynamic driver assistance switch (models without ProPILOT system)

④ ProPILOT switch (models with ProPILOT system)

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Blind Spot" and push the scroll dial.
3. Select "Intervention" and push the scroll dial.
4. Push the ProPILOT switch (if equipped) or the dynamic driver assistance switch (if equipped) to turn the system on or off.

NOTE:

- **Turning on the ProPILOT system (if equipped) will turn on the Intelligent Blind Spot Intervention and Intelligent Lane Intervention systems at the same time. For additional information, see "Intelligent Lane Intervention" (P.5-53).**
- **For model with ProPILOT system: When the Intelligent Blind Spot Intervention system is enabled in the settings menu, the Intelligent Blind Spot Intervention system can be turned on or off by pushing the speed limiter MAIN switch (if equipped).**
- **Turning the BSW system off will deactivate the Intelligent Blind Spot Intervention system at the same time.**

INTELLIGENT BLIND SPOT INTERVENTION SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the Intelligent Blind Spot Intervention system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The Intelligent Blind Spot Intervention system cannot detect all vehicles under all conditions.**
- **The radar sensors may not be able to detect and activate the Intelligent Blind Spot Intervention when certain objects are present such as:**
  - **— Pedestrians, bicycles, animals.**
  - **— Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.**

— Vehicles remaining in the detection zone when you accelerate from a stop.

— Oncoming vehicles.

— A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.

— A vehicle approaching rapidly from behind.

— A vehicle which your vehicle overtakes rapidly.

— A vehicle that passes through the detection zone quickly.

- The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.
- The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.
- The following conditions may reduce the ability of the radar to detect other vehicles:

  — Severe weather

  — Road spray

  — Ice/frost/dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.
- The camera may not detect lane markers in the following situations and the Intelligent Blind Spot Intervention system may not operate properly.

  — On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; lane markers covered with water, dirt, snow, etc.

  — On roads where discontinued lane markers are still detectable.

  — On roads where there are sharp curves.

  — On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs.

  — On roads where the traveling lane merges or separates.

  — When the vehicle's traveling direction does not align with the lane markers.

  — When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.

  — When rain, snow or dirt adheres to the windshield in front of a lane camera unit.

  — When the headlights are not bright due to dirt on the lens or if aiming is not adjusted properly.

  — When strong light enters a lane camera unit. (For example: light directly shines on the front of the vehicle at sunrise or sunset.)

  — When a sudden change in brightness occurs. (For example: when the vehicle enters or exits a tunnel or under a bridge.)
- Do not use the Intelligent Blind Spot Intervention system under the following conditions because the system may not function properly.

  — During bad weather. (For example: rain, fog, snow, etc.)

  — When driving on slippery roads, such as on ice or snow, etc.

  — When driving on winding or uneven roads.

  — When there is a lane closure due to road repairs.

  — When driving in a makeshift or temporary lane.

  — When driving on roads where the lane width is too narrow.

  — When driving with a tire that is not within normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, installation of other tire than NISSAN certified standard tire, tire chains, non-standard wheels).

  — When the vehicle is equipped with non-original brake parts, steering parts or suspension parts.

  — When towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe).
- Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.

INTELLIGENT BLIND SPOT INTERVENTION DRIVING SITUATIONS

Indicator on

Indicator off

Indicator flashing

Another vehicle approaching from behind

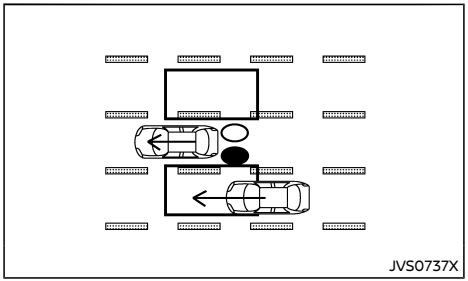


Illustration 1 – Approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

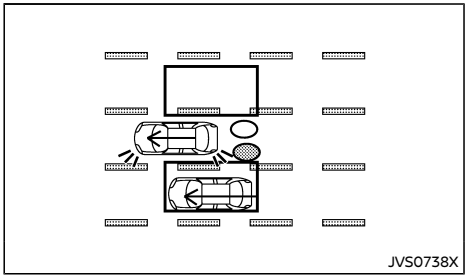


Illustration 2 – Approaching from behind

Illustration 2: If the driver activates the turn signal then the system chimes a sound (twice) and the side indicator light and Intelligent Blind Spot Intervention indicator flash.

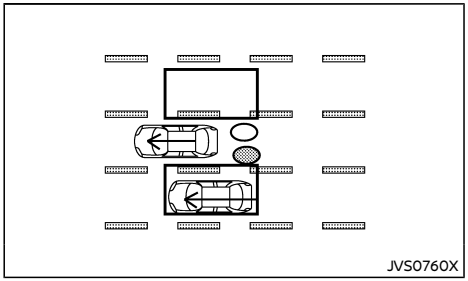


Illustration 3 – Approaching from behind

Illustration 3: If the Intelligent Blind Spot Intervention system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and Intelligent Blind Spot Intervention indicator flash. The Intelligent Blind Spot Intervention system activates by applying the brakes on one side of the vehicle for a short period of time to help return the vehicle back to the center of the driving lane.

NOTE:

The radar sensors may not detect vehicles which are approaching rapidly from behind.

Overtaking another vehicle

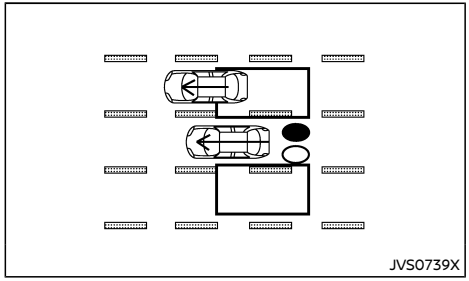


Illustration 4 – Overtaking another vehicle

Illustration 4: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 3 seconds.

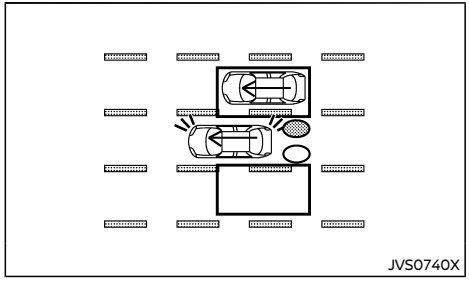


Illustration 5 – Overtaking another vehicle

Illustration 5: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the

side indicator light and Intelligent Blind Spot Intervention indicator flash.

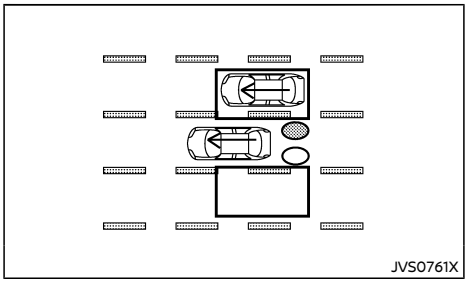


Illustration 6 – Overtaking another vehicle

Illustration 6: If the Intelligent Blind Spot Intervention system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and Intelligent Blind Spot Intervention indicator flash. The Intelligent Blind Spot Intervention system activates to by applying the brakes on one side of the vehicle for a short period of time to help return the vehicle back to the center of the driving lane.

NOTE:

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.**
- **The radar sensors may not detect slower moving vehicles if they are passed quickly.**

Entering from the side

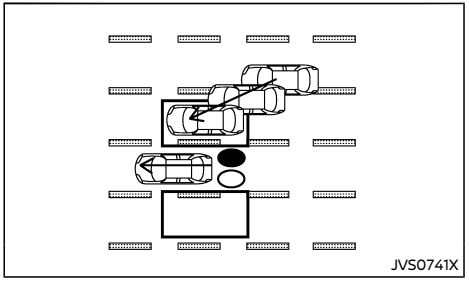


Illustration 7 – Entering from the side

Illustration 7: The side indicator light illuminates if a vehicle enters the detection zone from either side.

NOTE:

The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.

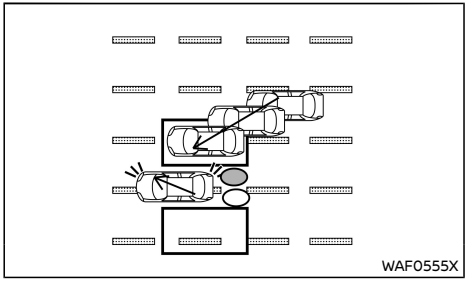


Illustration 8 – Entering from the side

Illustration 8: If the driver activates the turn signal while another vehicle is in the detection zone, then the side indicator light and Intelligent Blind Spot Intervention indicator flash and a chime will sound twice.

NOTE:

If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light and Intelligent Blind Spot Intervention indicator will flash but no chime will sound when another vehicle is detected.

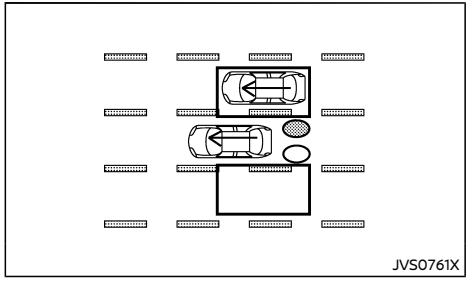


Illustration 9 – Entering from the side

Illustration 9: If the Intelligent Blind Spot Intervention system is on and your vehicle approaches the lane marker while another vehicle is in the detection zone, the system chimes (three times) and the side indicator light and Intelligent Blind Spot Intervention indicator flash. The Intelligent Blind Spot Intervention system activates by applying the brakes on one side of the vehicle for a short period of time to help return the vehicle back to the center of the driving lane.

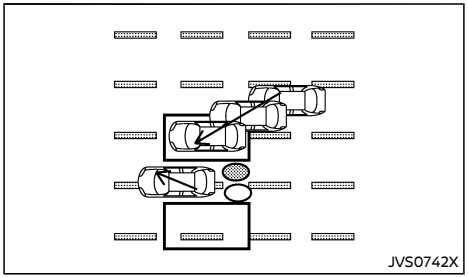


Illustration 10 – Entering from the side

Illustration 10: The Intelligent Blind Spot Intervention system will not operate if your vehicle is on a lane marker when another vehicle enters the detection zone. In this case only the BSW system operates.

NOTE:

- **The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.**
- **The Intelligent Blind Spot Intervention will not operate or will stop operating and only a warning chime will sound under the following conditions.**
  - **When the brake pedal is depressed or if the vehicle decelerates strongly.**
  - **When the vehicle is accelerated during the Intelligent Blind Spot Intervention system operation**
  - **When steering quickly**
  - **When the ICC, Intelligent Forward Collision Warning or Intelligent Emergency Braking with Pedestrian Detection warnings sound.**
  - **When the hazard warning flashers are operated.**
  - **When driving on a curve at a high speed.**
  - **When the BSW system is turned off.**

SYSTEM TEMPORARILY UNAVAILABLE

When any of the following messages appear on the vehicle information display, a chime will sound and the Intelligent Blind Spot Intervention system will be turned off automatically.

- "Unavailable Slippery Road":
  When the VDC/ESP system (except traction control system function) or ABS operates.
- "Currently Not Available":
  - When the VDC/ESP system is turned off.
  - When the SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models).
- "Unavailable Camera Temperature High":
  If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40°C (104°F)).
- "Not available Side radar obstructed":
  When side radar blockage is detected.

Turn off the Intelligent Blind Spot Intervention system and turn it on again when the above conditions no longer exist.

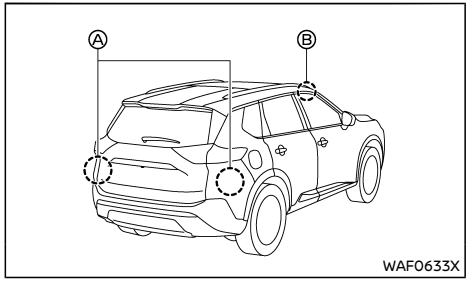
SYSTEM MALFUNCTION

When the Intelligent Blind Spot Intervention system malfunctions, it will be turned off automatically, the Intelligent Blind Spot Intervention indicator illuminates and a chime will sound, and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

Stop the vehicle in a safe location and push the park button to engage the "P" (Park) position. Turn the engine off and restart the engine. If the warning message continues to appear, It is recommended you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The two radar sensors Ⓐ for the Intelligent Blind Spot Intervention system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

It is recommended you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

The lane camera unit Ⓑ for the Intelligent Blind Spot Intervention system is located above the inside mirror. To keep the proper operation of the Intelligent Blind Spot Intervention and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. It is recommended you contact a NISSAN dealer if the camera unit is damaged due to an accident.

Precautions on repairing the bumper

When repairing the bumper, take caution because the radar sensors are installed on the bumper.

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

WARNING:

If an improper repair is performed on the bumper (for example, application of putty made from different materials, repaint, etc.) the radar signal could be weakened or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly. Improper repair may result in serious personal injury. If it is necessary to repair the bumper, it is recommended you visit a NISSAN dealer for this service.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

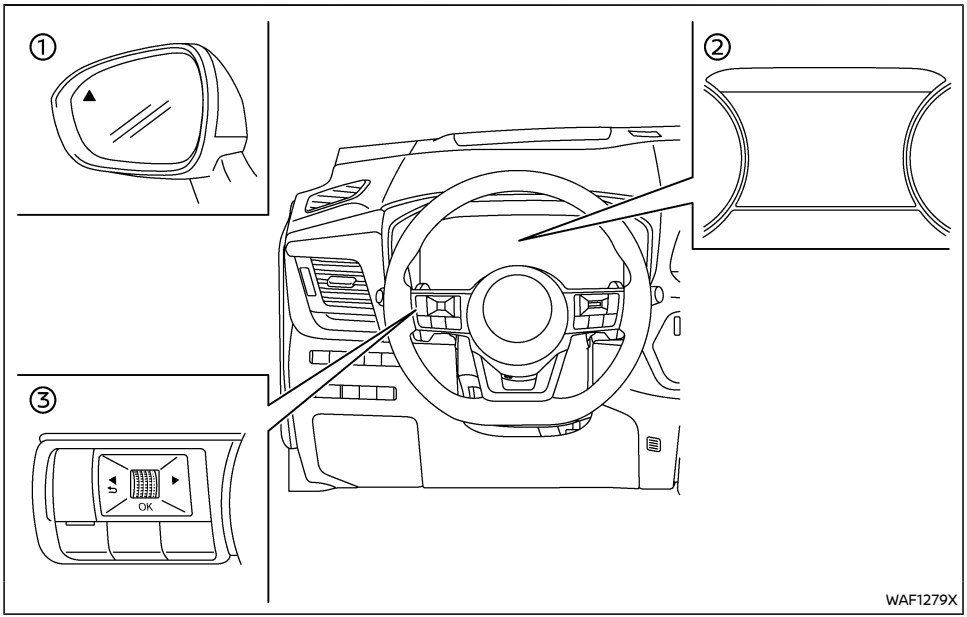
REAR CROSS TRAFFIC ALERT (RCTA) (if equipped)

WARNING:

Failure to follow the warnings and instructions for proper use of the RCTA system could result in serious injury or death.

- **The RCTA system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When backing out of a parking space, always use the side and rear mirrors and turn and look in the direction your vehicle will move. Never rely solely on the RCTA system.**

The RCTA system will assist you when backing out from a parking space. When the vehicle is in reverse, the system is designed to detect other vehicles approaching from the right or left of the vehicle. If the system detects cross traffic, it will alert you.



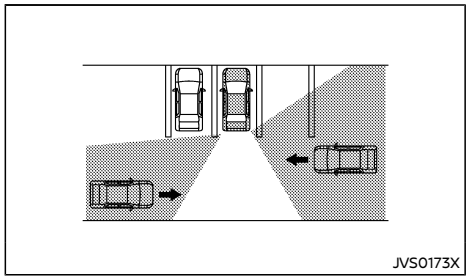
① Side indicator light
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

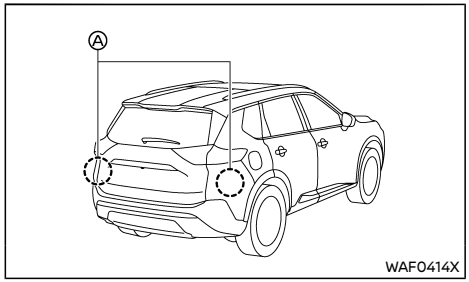
RCTA SYSTEM OPERATION

The RCTA system can help alert the driver of an approaching vehicle when the driver is backing out of a parking space.

When the shift position is in "R" (Reverse) and the vehicle speed is less than approximately 8 km/h (5 MPH), the RCTA system is operational.

If the radar detects an approaching vehicle from either side, the system chimes (once) and the side indicator light flashes on the side the vehicle is approaching from.

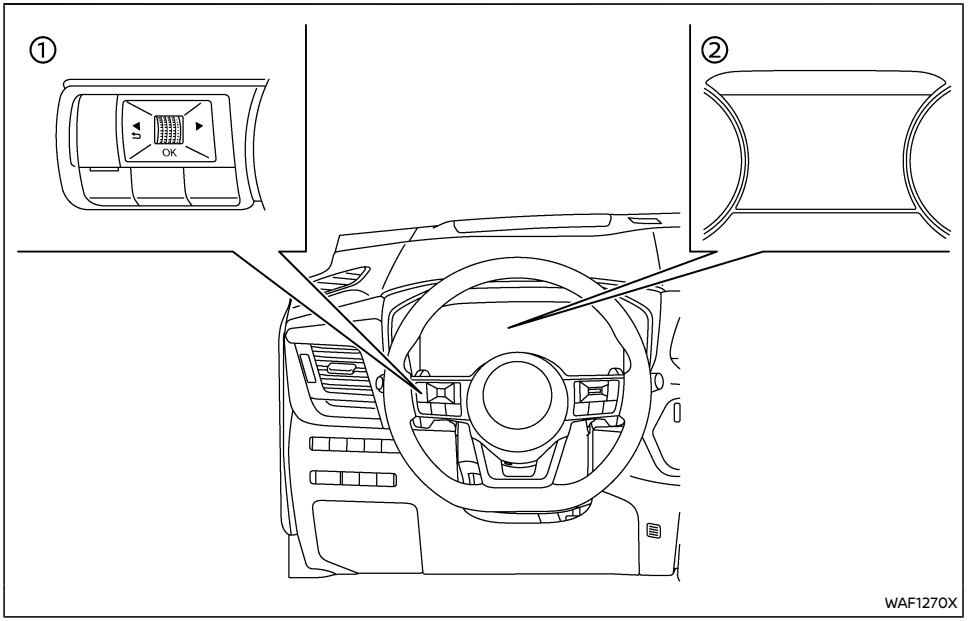




The RCTA system uses radar sensors Ⓐ installed on both sides near the rear bumper to detect an approaching vehicle.

The radar sensors can detect an approaching vehicle from up to approximately 20 m (66 ft) away.

HOW TO ENABLE/DISABLE THE RCTA SYSTEM



① Steering-wheel-mounted controls (left side)

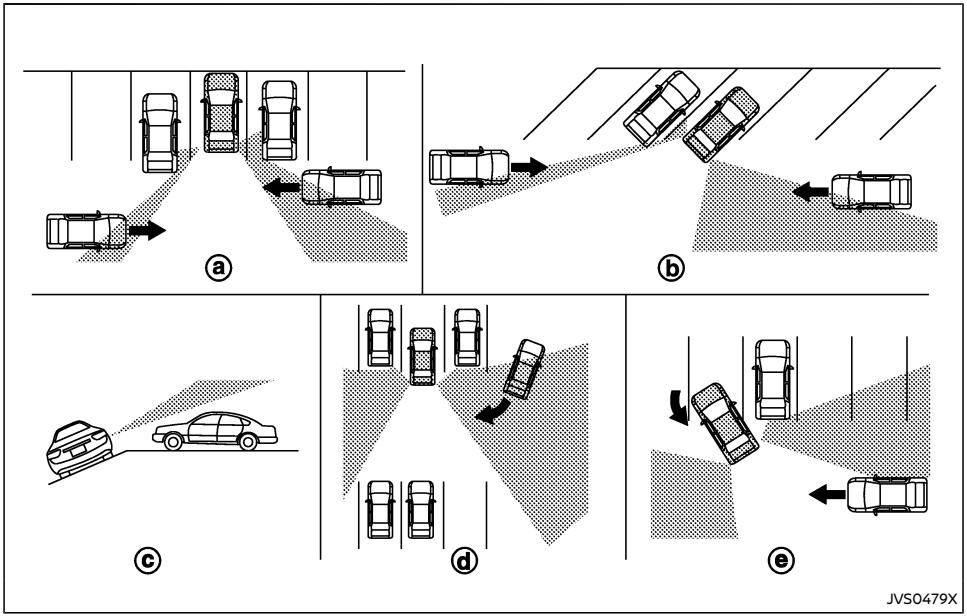
② Vehicle information display

Perform the following steps to enable or disable the RCTA system.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
2. Select "Rear Cross Traffic Alert" and push the scroll dial to turn the system on or off.

NOTE:

The system setting will be retained even if the engine is restarted.



RCTA SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the RCTA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Always check surroundings and turn to check what is behind you before backing up. The radar sensors detect approaching (moving) vehicles. The radar sensors cannot detect every object such as:**
  - **— Pedestrians, bicycles, motorcycles, animals or child-operated toy vehicles**
  - **— A vehicle that is passing at speeds greater than approximately 30 km/h (19 MPH)**
  - **— A vehicle that is passing at speeds lower than approximately 8 km/h (5 MPH)**
- **The radar sensors may not detect approaching vehicles in certain situations:**
  - **— Illustration ⓐ: When a vehicle parked next to you obstructs the beam of the radar sensor.**
  - **— Illustration ⓑ: When the vehicle is parked in an angled parking space.**
  - **— Illustration ⓒ: When the vehicle is parked on inclined ground.**
  - **— Illustration ⓓ: When an approaching vehicle turns into your vehicle's parking lot aisle.**
  - **— Illustration ⓔ: When the angle formed by your vehicle and approaching vehicle is small.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **— Severe weather**
  - **— Road spray**
  - **— Ice/frost/dirt build-up on the vehicle**
- **Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles**
- **When towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe), turn the RCTA system off to prevent the occurrence of an unexpected accident resulting from sudden system operation.**
- **Excessive noise (e.g. audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

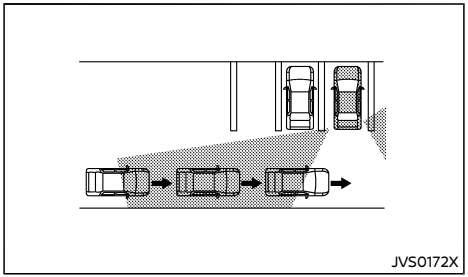

JVS0172X

Illustration 1

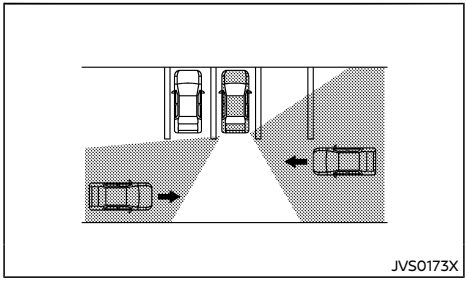

JVS0173X

Illustration 2

NOTE:

In the case of several vehicles approaching in a row (Illustration 1) or in the opposite direction (Illustration 2), a chime may not be sounded by the RCTA system after the first vehicle passes the sensors.

SYSTEM TEMPORARILY UNAVAILABLE

When radar blockage is detected, the system will be deactivated automatically. The "Not available Side radar obstructed" warning message will appear in the vehicle information display.

The systems are not available until the conditions no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

NOTE:

If the BSW system stops working, the RCTA and the Intelligent Blind Spot Intervention (if equipped) systems will also stop working.

Action to take:

When the above conditions no longer exist, the system will resume automatically.

SYSTEM MALFUNCTION

When the RCTA system malfunctions, it will turn off automatically. The "System fault See Owner's Manual" warning message will appear in the vehicle information display.

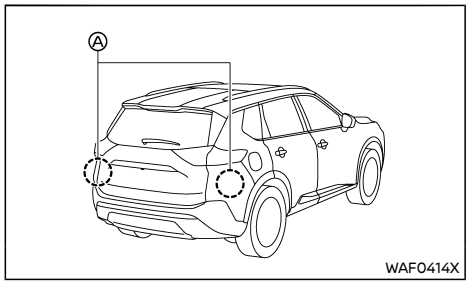
NOTE:

If the BSW system stops working, the RCTA and the Intelligent Blind Spot Intervention (if equipped) systems will also stop working.

Action to take:

Stop the vehicle in a safe location, turn the engine off and restart the engine. If the message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



WAF0414X

The two radar sensors Ⓐ for the RCTA system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors. It is recommended that you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

Precautions on repairing the bumper

When repairing the bumper, take caution because the radar sensors are installed on the bumper.

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

WARNING:

If an improper repair is performed on the bumper (for example, application of putty made from different materials, repaint, etc.) the radar signal could be weakened or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly. Improper repair may result in serious personal injury. If it is necessary to repair the bumper, it is recommended you visit a NISSAN dealer for this service.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

The speed limiter allows you to set the desired vehicle speed limit. While the speed limiter is activated, the driver can perform normal braking and acceleration, but the vehicle will not exceed the set speed.

WARNING:

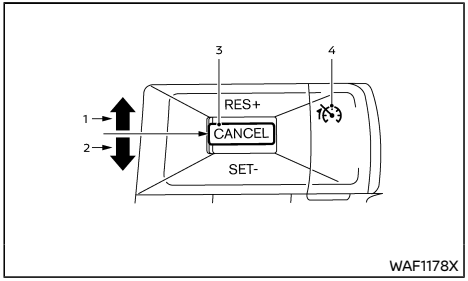
- **Always observe posted speed limits. Do not set the speed over them.**
- **Always confirm the setting status of the speed limiter on the vehicle information display.**

When the speed limiter is on, the cruise control (if equipped) system cannot be operated.

SPEED LIMITER OPERATIONS

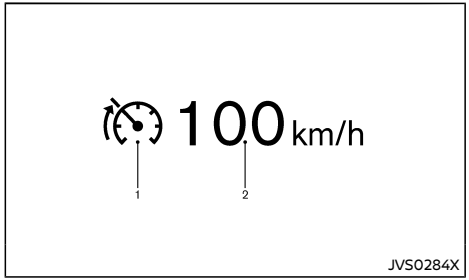
The speed limiter can be set at a speed between the following speeds.

- 30 to 200 km/h (20 to 125 MPH) (for Europe, Egypt, and Palestine)
- 30 to 190 km/h (20 to 119 MPH) (except for Europe, Egypt, and Palestine)



The speed limiter set switches are located on the steering wheel.

1. RES+ operation
2. SET- operation
3. CANCEL switch
4. Speed limiter MAIN switch (When this switch is pushed, the speed limiter enters the standby mode. If the cruise control (if equipped) or ICC system (if equipped) is on, the system will turn off and the speed limiter enters the standby mode.)



The speed limiter operating condition is shown on the vehicle information display.

1. Speed limiter indicator
2. Set speed indicator

The speed unit can be converted between "km/h" and "MPH" (if equipped). (See "Unit/Language" (P.2-28).)

When the vehicle speed exceeds the set speed limit, the set speed indicator blinks and the accelerator pedal operation will not work until the vehicle speed slows down to the set speed limit.

The speed limiter will not automatically reduce the vehicle speed to the set speed limit.

Turning on speed limiter

Push the speed limiter MAIN switch. The speed limiter and the set speed indicators illuminate on the vehicle information display ("LIMIT ON Press SET- to Activate" message appears on the display).

Setting speed limit

1. Push down the CANCEL switch to SET-.
   - When the vehicle is stopped, the speed will be set at 30 km/h or 20 MPH.
   - While driving, the speed limit will be set at the current speed.

   NOTE:
   If you push up the CANCEL switch to RES+ and release it when there is no vehicle set speed, the vehicle will behave the same way as when the CANCEL switch is pushed down to SET-.

2. When the speed limit is set, the speed limiter indicator and the set speed indicator illuminate on the vehicle information display ("+/- Change Set Speed" message appears on the display).

Changing set speed limit:

Use either of the following operations to change the speed limit.

- Push and hold the CANCEL switch to RES+ or SET-. The set speed will increase or decrease by approximately 5 km/h or 5 MPH.
- Push, then quickly release the CANCEL switch to RES+ or SET-. Each time you do this, the set speed will increase or decrease by approximately 1 km/h or 1 MPH.

The new set speed limit value will be displayed in the vehicle information display.

When the actual vehicle speed exceeds the set speed, an audible warning will be heard a short time after the set speed is exceeded if driver intervention is not detected.

Canceling speed limit

To cancel the speed limiter, push the CANCEL switch. The speed limiter indicator and the set speed indicator on the vehicle information display will turn off ("Standby Press RES+ to Resume" message appears on the display).

It is also possible to override the speed limiter by fully depressing the accelerator pedal beyond the resistance point.

WARNING:

- **The vehicle may accelerate when the speed limiter cancels.**
- **When additional floor mats are used, be sure that they are correctly secured and that they cannot interfere with the accelerator pedal. Mats not adapted to the vehicle may prevent proper operation of the speed limiter.**

Fully depress the accelerator pedal beyond the resistance point. The speed limiter will be suspended to allow driving above the set speed. The set speed indicator will flash. The speed limiter will automatically resume when the vehicle speed drops below the set speed limit.

Resuming a previous set speed

If a set speed limit has been cancelled, the set speed will be stored in the speed limiter memory.

This speed limit can be reactivated by pushing up the CANCEL switch to RES+ (“Resumed” message appears on the display).

If the current vehicle speed is higher than the previous set speed, the accelerator pedal will not work and the set speed indicator will flash until the vehicle speed drops below the set speed limit.

When the actual vehicle speed exceeds the set speed, an audible warning will be heard a short time after the set speed is exceeded and driver intervention is not detected.

Turning the speed limiter off

The speed limiter system will be turned off when one of the following operations is performed:

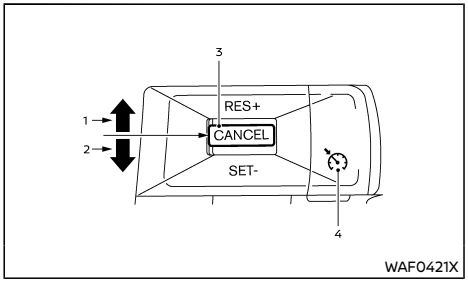
- Push the speed limiter MAIN switch. The speed limiter indicator and the set speed indicator on the vehicle information display will be turned off.
- Push the Cruise ON/OFF switch. The speed limiter information on the vehicle information will be replaced with the cruise control information. For details see “Cruise control” (P.5-92).
- When the vehicle is stopped and the ignition switch is placed in the “OFF” position.

Turning off the speed limiter will erase the set speed limit memory.

Speed limiter malfunction

If the speed limiter malfunctions, the speed limiter on the vehicle information display will flash ("LIMIT Not Available" message appears on the display).

Turn the speed limiter MAIN switch off and have the system checked by a NISSAN dealer.



1. RES+ operation
2. SET- operation
3. CANCEL switch
4. Cruise ON/OFF switch

For models with the ProPILOT system, see "Conventional (fixed speed) cruise control mode" (P.5-134).

For models with the Intelligent Cruise Control (ICC) system (without ProPILOT system), see "Conventional (fixed speed) cruise control mode" (P.5-106).

WARNING:

- **Always observe the posted speed limits and do not set the speed over them.**
- **Do not use the cruise control when driving under the following conditions. Doing so could cause a loss of vehicle control and result in an accident.**
  - **— When it is not possible to keep the vehicle at a constant speed**
  - **— When driving in heavy traffic**
  - **— When driving in traffic that varies speed**
  - **— When driving in windy areas**
  - **— When driving on winding or hilly roads**
  - **— When driving on slippery (rain, snow, ice, etc.) roads**

PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it will cancel automatically. The cruise indicator in the vehicle information display will then blink to warn the driver.
- If the cruise indicator blinks and "Not Available Cruise System Fault" message appears in the display, turn the Cruise ON/OFF switch off and have the system checked. It is recommended that you visit a NISSAN dealer for this service.
- The cruise indicator may blink when the Cruise ON/OFF switch is turned ON while pushing up the CANCEL switch to RES+, pushing down the CANCEL switch to SET-, or pushing the CANCEL switch. To properly set the cruise control system, perform the following procedures.

CRUISE CONTROL OPERATIONS

The cruise control allows driving at speeds above 40 km/h (25 MPH) (except for Europe, Egypt, India and Palestine) or 30 km/h (20 MPH) (for Europe, Egypt, India and Palestine) without keeping your foot on the accelerator pedal.

The cruise control will automatically be canceled if the vehicle slows down more than approximately 13 km/h (8 MPH) below the vehicle set speed. ("Not Available Speed Too High/Low" message appears in the display.)

Moving the shift lever to the N (Neutral) position will cancel the cruise control.

Turning on cruise control

Push the Cruise ON/OFF switch. The cruise indicator and "CRUISE ON Press SET- to Activate" message in the vehicle information display will appear.

Setting cruising speed

1. Accelerate to the desired speed.
2. Push down the CANCEL switch to SET- or push up the CANCEL switch to RES+ and release it.
3. Take your foot off the accelerator pedal.

The vehicle will maintain the set speed. ("+ /- Change Set Speed" message appears in the display.)

NOTE:

If pushed up the CANCEL switch to RES+ and released it when there is no vehicle set speed, the set speed is set to the current vehicle speed.

Passing another vehicle:

Depress the accelerator pedal to accelerate. After releasing the accelerator pedal, the vehicle will return to the previously set speed.

The vehicle may not maintain the set speed when going up or down steep hills. In such cases, drive without the cruise control.

Resetting to slower speed:

Use any one of the following methods to reset to a slower speed.

- Lightly tap the foot brake pedal. When the vehicle reaches the desired speed, push down the CANCEL switch to SET- and release it.
- Push down and hold the CANCEL switch to SET-. This will reduce the vehicle speed by about 1 km/h or 1 MPH, or 5 km/h or 5 MPH depending on the model. When the vehicle reaches the desired speed, release the CANCEL switch.
- Quickly push down the CANCEL switch to SET- and release it. This will reduce the vehicle speed by about 1 km/h or 1 MPH.

Resetting to faster speed:

Use any one of the following methods to reset to a faster speed.

- Depress the accelerator pedal. When the vehicle reaches the desired speed, push down the CANCEL switch to SET- and release it.
- Push up and hold the CANCEL switch to RES+. This will increase the vehicle speed by about 1 km/h or 1 MPH, or 5 km/h or 5 MPH depending on the model. When the vehicle reaches the desired speed, release the CANCEL switch.
- Quickly push up the CANCEL switch to RES+ and release it. This will increase the vehicle speed by about 1 km/h or 1 MPH.

Resuming at preset speed:

Push up the CANCEL switch to RES+ and release it.

The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH). ("Resumed" message appears in the display.)

Cancelling cruising speed

Use any one of the following methods to cancel the vehicle set speed. ("Standby Press RES+ to Resume" message appears in the display.)

- Push the CANCEL switch.
- Tap the foot brake pedal.
- Push the Cruise ON/OFF switch. The cruise indicator will turn off.

INTELLIGENT CRUISE CONTROL (ICC) (if equipped)

For models with the ProPILOT system, see "Intelligent Cruise Control (ICC)" (P.5-118).

WARNING:

Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.

- **ICC is not a collision avoidance or warning device. It is intended for highway use only and it is not intended for congested areas or city driving. Failure to apply the brakes could result in an accident.**
- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Always drive carefully and attentively when using either cruise control mode. Read and understand the Owner's Manual thoroughly before using the cruise control. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use cruise control except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

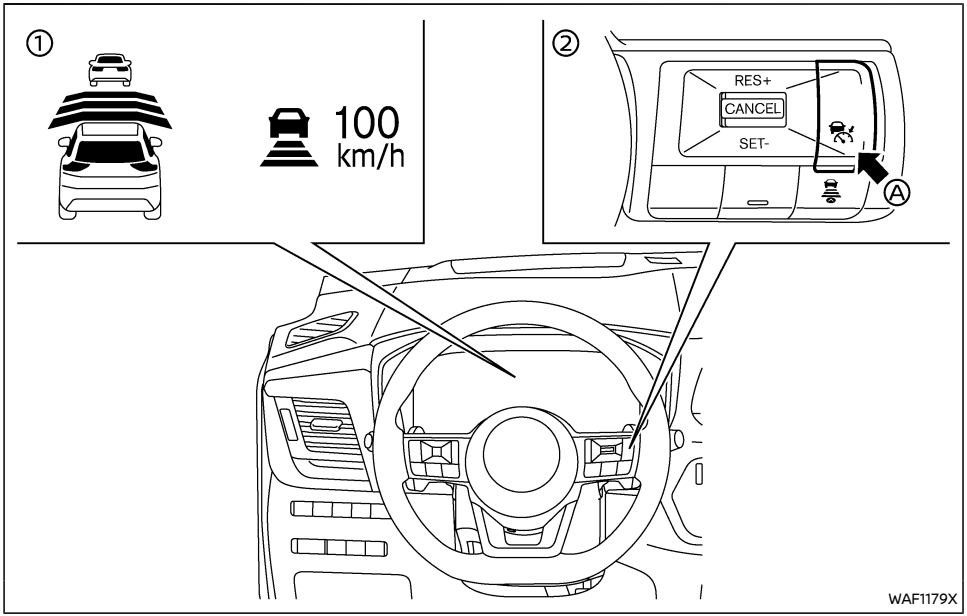
The ICC system will maintain a constant set speed or keep a set distance from the vehicle in front of you up to the set speed.

The vehicle travels at a set speed when the road ahead is clear.

The ICC system can be set to one of two cruise control modes.

- Vehicle-to-vehicle distance control mode:
  For maintaining a selected distance between your vehicle and the vehicle in front of you up to the preset speed.
- Conventional (fixed speed) cruise control mode:
  For cruising at a preset speed.

The ICC system cannot be operated when the speed limiter is on. (See "Speed limiter" (P.5-90).)



Example

① Displays and indicators
② ICC switches
Ⓐ Cruise ON/OFF switch

Push the Cruise ON/OFF switch Ⓐ to choose the cruise control mode between the vehicle-to-vehicle distance control mode and the conventional (fixed speed) cruise control mode.

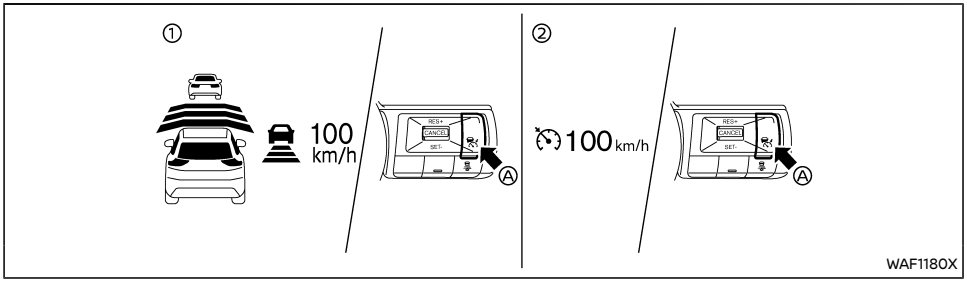
Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the Cruise ON/OFF switch Ⓐ once to turn the system off. Then push the Cruise ON/OFF switch Ⓐ again to turn the system back on and select the desired cruise control mode.

Always confirm the setting in the ICC system display.

For the vehicle-to-vehicle distance control mode, see "Vehicle-to-vehicle distance control mode" (P.5-96).

For the conventional (fixed speed) cruise control mode, see "Conventional (fixed speed) cruise control mode" (P.5-106).

HOW TO SELECT THE CRUISE CONTROL MODE



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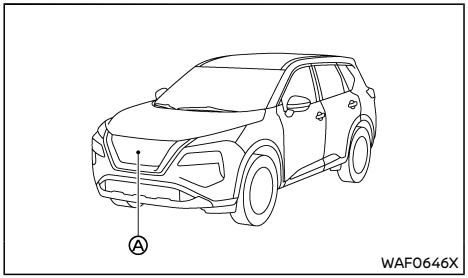
Example



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Selecting the vehicle-to-vehicle distance control mode

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the Cruise ON/OFF switch Ⓐ.

Selecting the conventional (fixed speed) cruise control mode

To choose the conventional (fixed speed) cruise control mode ②, push and hold the Cruise ON/OFF switch Ⓐ for longer than approximately 1.5 seconds. See "Conventional (fixed speed) cruise control mode" (P.5-106).

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

In the vehicle-to-vehicle distance control mode, the ICC system automatically maintains a selected distance from the vehicle traveling in front of you according to that vehicle's speed (up to the set speed), or at the set speed when the road ahead is clear.

The system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

If the radar sensor Ⓐ detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance.

The system automatically controls the throttle and applies the brakes (up to approximately 40% of vehicle braking power) if necessary.

Vehicle-to-vehicle distance control mode operation

The vehicle-to-vehicle distance control mode is designed to maintain a selected distance and reduce the speed to match the slower vehicle ahead; the system will decelerate the vehicle as necessary. However, the ICC system can only apply up to approximately 40% of the vehicle's total braking power. This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

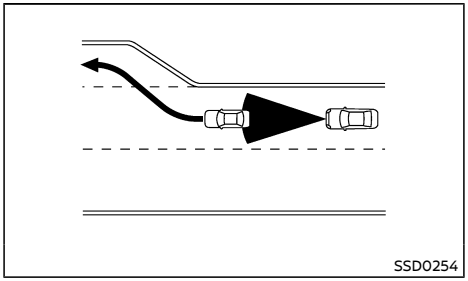
The system will cancel and a warning chime will sound if the speed is below approximately 25 km/h (15 MPH) and a vehicle is not detected ahead.

The following items are controlled in the vehicle-to-vehicle distance control mode:

- When there are no vehicles traveling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is the following speed.
  — 30 and 180 km/h (20 and 112 MPH)
- When there is a vehicle traveling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by driver, from the vehicle ahead. The adjusting speed range is between approximately 30 km/h (20 MPH) and up to the set speed.

- When the vehicle traveling ahead has moved out from its lane of travel, the vehicle-to-vehicle distance control mode accelerates and maintains vehicle speed up to the set speed.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.

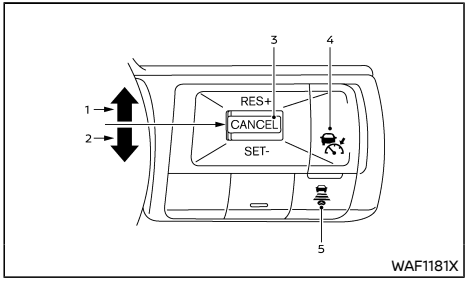

SSD0254

When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC system will adjust the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate and maintain the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

Vehicle-to-vehicle distance control mode switches



WAF1181X

The system is operated by the Cruise ON/OFF switch and four control switches, all mounted on the steering wheel.

1. RES+ operation:

   Resumes set speed or increases speed incrementally.
2. SET- operation:

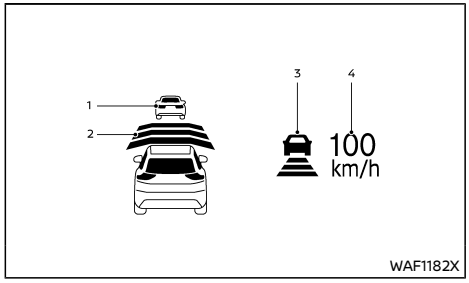
   Sets desired cruise speed, reduces speed incrementally.
3. CANCEL switch:

   Deactivates the system without erasing the set speed.
4. Cruise ON/OFF switch:

   Master switch to activate the system
5. DISTANCE switch:

   Changes the vehicle's following distance:
   - Long
   - Middle
   - Short

Vehicle-to-vehicle distance control mode display and indicators



WAF1182X

Example

The display is located on the left side of the speedometer.

1. Vehicle ahead detection indicator:

   Indicates whether it detects a vehicle in front of you (only when ICC is active).
2. Set distance indicator:

   Displays the selected distance between vehicles set with the DISTANCE switch.
3. This indicator indicates the ICC system status using color.
   - ICC system ON indicator (gray):

     ICC standby.
   - ICC system ON indicator (green):

     Indicates that the ICC system is ON and active.

Indicates that the cruising speed is set.

— Green vehicle icon displayed: Vehicle detected ahead.

— No vehicle icon shown: No vehicle detected ahead. (Your vehicle maintains the driver-selected set speed.)

- ICC system warning (yellow):

  Indicates that there is a malfunction in the ICC system.

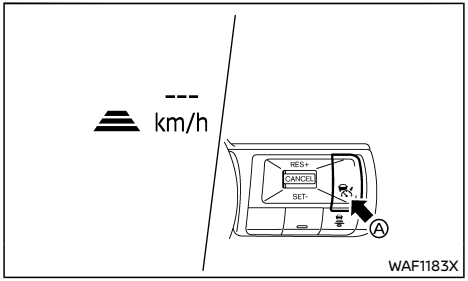
4. Set vehicle speed indicator:

   Indicates the set vehicle speed.

   - Green: ICC active
   - Gray: ICC standby

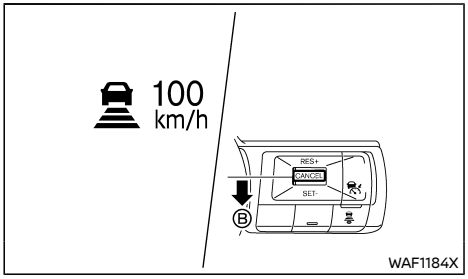
   (The speed unit can be converted between "km/h" and "MPH" (if equipped). See "Unit/Language" (P.2-28).)

Operating vehicle-to-vehicle distance control mode



WAF1183X

To turn on the cruise control, quickly push and release the Cruise ON/OFF switch Ⓐ. The ICC system ON indicator (gray), set distance indicator and set vehicle speed indicator come on and in a standby state for setting.



WAF1184X

To set cruising speed, accelerate your vehicle to the desired speed, push down the CANCEL switch to SET- Ⓑ and release it. (The ICC system ON indicator (green), set distance indicator and set vehicle speed indicator come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

When the CANCEL switch is pushed to SET- Ⓑ under the following conditions, the system cannot be set and the set vehicle speed indicator will blink for approximately 2 seconds:

- When traveling below 30 km/h (20 MPH) and the vehicle ahead is not detected
- When the shift lever is not in the "D" (Drive) position
- When the parking brake is applied
- When the brakes are operated by the driver

When the CANCEL switch is pushed to SET- Ⓑ under the following conditions, the system cannot be set and a message will pop up.

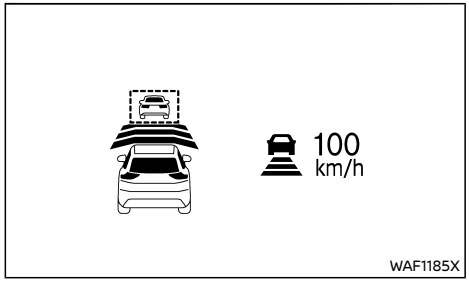
- When the VDC/ESP system is off. (To use the ICC system, turn on the VDC/ESP system. Push the Cruise ON/OFF switch to turn off the ICC system and reset the ICC system by pushing the Cruise ON/OFF switch again.)

  For additional information about the VDC/ESP system, see "Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system" (P.5-172).
- When VDC/ESP (including the traction control system) is operating.
- When a wheel is slipping. (To use the ICC system, make sure the wheels are no longer slipping.)
- When the front radar is impaired due to dirt or an other obstruction blocking the radar sensor.

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead.

The ICC system displays the set speed.

Vehicle detected ahead:



WAF1185X

Example

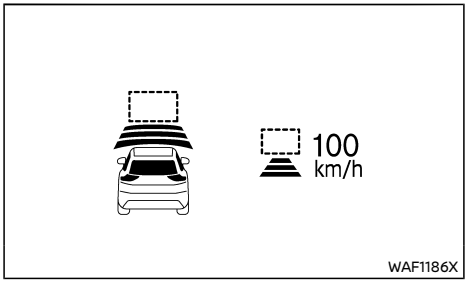
When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

NOTE:

- **The stoplights of the vehicle come on when braking is performed by the ICC system.**
- **When the brake operates, a noise may be heard. This is not a malfunction.**

When a vehicle ahead is detected, the vehicle ahead detection indicator comes on. The ICC system will also display the set speed and selected distance.

Vehicle ahead not detected:



Example

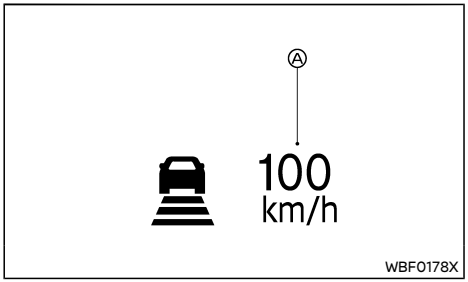
When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected the vehicle ahead detection indicator turns off.

If a vehicle ahead appears during acceleration to the set vehicle speed or any time the ICC system is in operation, the system controls the distance to that vehicle.

When a vehicle is no longer detected under approximately 25 km/h (15 MPH), the system will be canceled.

When passing another vehicle:



The driver can override ICC by depressing the accelerator pedal. The set speed indicator Ⓐ will flash when the vehicle speed exceeds the set speed. The vehicle detect indicator will turn off when the area ahead of the vehicle is open. When the pedal is released, the vehicle will return to the previously set speed.

Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

How to switch the ICC system off

Switch off the ICC system completely by turning the Cruise ON/OFF switch off. The ICC indicators will go out.

How to change the set vehicle speed

To cancel the preset speed, use any of these methods:

- Push the CANCEL switch. The set vehicle speed indicator and the cruise indicator will turn gray.
- Tap the brake pedal. The set vehicle speed indicator and the cruise indicator will turn gray.
- Turn the Cruise ON/OFF switch off. The ICC indicators will go out.

To reset at a faster cruising speed, use one of the following methods:

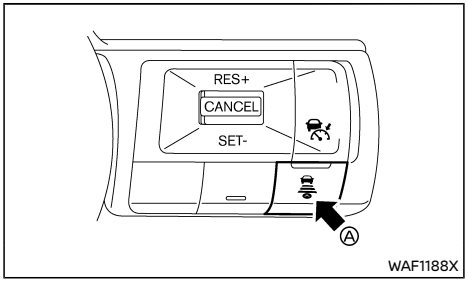
- Depress the accelerator pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push up and hold the CANCEL switch to RES+. The set vehicle speed will increase in increments of 10 km/h or 5 MPH.
- Push up the CANCEL switch to RES+ and then quickly release it. Each time you do this, the set speed will increase by approximately 1 km/h (1 MPH).

To reset at a slower cruising speed, use one of the following methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push down and hold the CANCEL switch to SET-. The set vehicle speed will decrease in increments of 10 km/h or 5 MPH.
- Push down the CANCEL switch to SET- and then quickly release it. Each time you do this, the set speed will decrease by approximately 1 km/h (1 MPH).

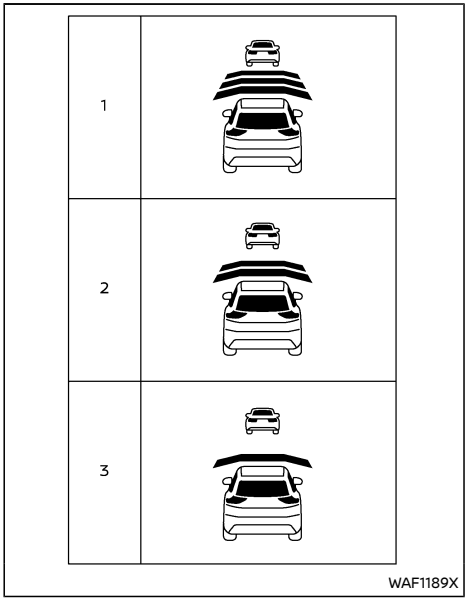
To resume the preset speed, push up the CANCEL switch to RES+ and release it. The vehicle will resume the last set cruising speed when the vehicle speed is over 30km/h (20 MPH).

How to change the set distance to the vehicle ahead



The distance to the vehicle ahead can be selected at the time of the ICC standby or the ICC is active.

Each time the DISTANCE switch Ⓐ is pushed, the set distance will change to long, middle, short and back to long again in that sequence.



Example

Distance — approximate distance at 100 km/h (60 MPH)

1. Long – 60 m (200 ft)
2. Middle – 45 m (150 ft)
3. Short – 30 m (100 ft)

- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- The distance setting will remain at the current setting even if the engine is restarted.

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing.
- When a vehicle cuts in near your vehicle.

The warning chime will not sound when:

- Your vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

NOTE:

The approach warning chime may sound and the system display may blink when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding roads, narrow roads, hilly roads or when entering or exiting a curve. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by

vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

Acceleration when passing (if equipped)

Passing on the left-hand side (for countries where traffic travels on the right-hand side of the road):

When the ICC system is engaged above 70 km/h (45 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the left, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the left and will begin to reduce the distance to vehicle directly ahead. Only the left side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the left lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

Passing on the right-hand side (for countries where traffic travels on the left-hand side of the road):

When the ICC system is engaged above 70 km/h (45 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the right, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the right and will begin to reduce the distance to vehicle directly ahead. Only the right side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the right lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

WARNING:

In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:

- **This function is only activated with the left or right turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include non-passing situations such as left or right side exits.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing. Always manually steer or brake as needed. Never solely rely on the system.**

Speed Limit Link (if equipped)

WARNING:

Listed below are the system limitations for the Speed Limit Link. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

- **It is the driver's responsibility to select the proper speed, follow all traffic regulations and observe other road users.**
- **The Speed Limit Link may not operate properly and the actual speed limit may not be applied to the vehicle set speed in all conditions. The driver must manually control the vehicle speed.**

  Below are some examples:

  — When the Traffic Sign Recognition (TSR) system is not functioning properly or turned off. (See "Traffic Sign Recognition (TSR) (Type B)" (P.5-45).)

  — When driving in an area with nearby parallel roads (for example, freeway with a parallel service drive).

  — When driving in an area where each lane has a different speed limit sign.

  — When driving on a road under construction or in a construction zone.

  — When end of the speed limit sign is indicated.

- **When the speed unit selected in the vehicle information display is different to the unit of the speed limit sign.**

When the ICC system is active and it detects a change of the speed limit, the new speed limit is indicated and it can be applied to the vehicle set speed manually.

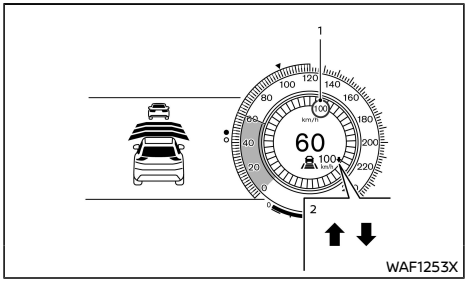
The Speed Limit Link operates:

- When the detected speed limit is 30 km/h (20 MPH) and above.
- The "Speed Limit Link" is enabled in the settings menu of the vehicle information display.

NOTE:

- **In the following situations, the Speed Limit Link will not operate:**
  - **When an increase in the posted speed limit is detected, but the vehicle set speed is already faster than the new speed limit.**
  - **When a decrease in the posted speed limit is detected, but the vehicle set speed is already lower than the new speed limit.**

System display and indicators:



Example

1. Detected speed limit indicator

   Displays the currently detected speed limit. For additional information, see "Traffic Sign Recognition (TSR) (Type B)" (P.5-45).

   Applied speed limit indicator (green frame)

   Indicates the detected speed limit can be applied to the vehicle set speed.

2. Speed Limit Link indicator

   Indicates the system operation.

   " ⬆ " : Manual mode is activated and a new speed limit (faster speed value) is indicated.

   " ⬇ " : Manual mode is activated and a new speed limit (lower speed value) is indicated.

Operating the system:

When the system detects a different speed limit, the new speed value is indicated. The vehicle set speed can be changed to the indicated speed limit manually.

- To accept the newly indicated speed limit, perform the RES+ operation (in case of speed limit up) or SET- operation (in case of speed limit down).
- The Speed Limit Link indicator (⬆ or ⬇) will turn off after approximately 15 seconds if the RES+ or SET- operation is not performed. (The Speed Limit Link indicator can be turned off immediately by operating the opposite switch from the direction indicated by the Speed Limit Link indicator.)

The system will not activate if a speed limit change is not detected.

How to activate or deactivate the system:

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Limit Link" and push the scroll dial to turn the system on or off.

NOTE:

The system will retain current settings in the vehicle information display even if the engine is restarted.

Selecting Speed Link Offset:

It is possible to set whether the speed limit should be accepted exactly, or with a tolerance of –10 km/h (-5 MPH) to +10 km/h (+5 MPH).

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Link Offset" and push the scroll dial to select tolerance value. (Select "OFF" to turn off the function.)

NOTE:

The function will retain current settings in the vehicle information display even if the engine is restarted.

Automatic cancellation

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle ahead is not detected and your vehicle is traveling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at standstill
- When the shift lever is not in the "D" (Drive) position
- When the parking brake is applied
- When the VDC/ESP system is turned off
- When VDC/ESP (including the traction control system) operates
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips

- When the radar signal is temporarily interrupted
- On repeated uphill and downhill roads

Vehicle-to-vehicle distance control mode limitations

WARNING:

Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the system in city traffic or congested areas.**
- **This system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves, steep uphill and downhill, or on icy roads, in heavy rain or in fog.**
- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The vehicle-to-vehicle distance control mode of the ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.**
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:**
  - **— On roads where the traffic is heavy or there are sharp curves**
  - **— On slippery road surfaces such as on ice or snow, etc.**
  - **— During bad weather (rain, fog, snow, etc.)**
  - **— When rain, snow or dirt adhere to the system sensor**
  - **— On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)**
  - **— On repeated uphill and downhill roads**
  - **— When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
  - **— Interference by other radar sources**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the ICC system when it is not recommended in this section.**
- **Do not use the ICC system if you are towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe). The system may not detect a vehicle ahead.**

The radar sensor will not detect the following objects:

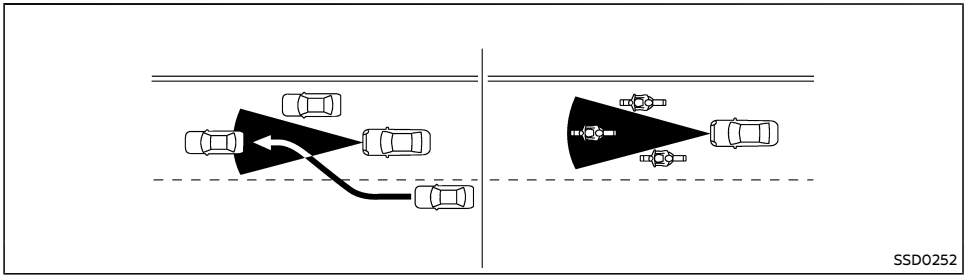
- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

The sensor generally detects the signals returned from the vehicle ahead. Therefore, if the sensor cannot detect the reflection from the vehicle ahead, the ICC system may not maintain the selected distance.

The following are some conditions in which the sensor cannot detect the signals:

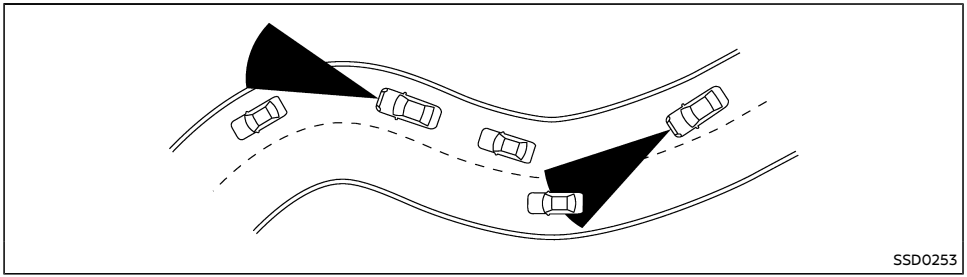
- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage compartment of your vehicle
- When your vehicle is towing a trailer, etc. (for Australia, New Zealand, South Africa and Europe)

The ICC system is designed to automatically check the sensor's operation within the limitation of the system. When the sensor is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the ICC system may not detect them. In these instances, the vehicle-to-vehicle distance control mode may not cancel and may not be able to maintain the selected following distance from the vehicle ahead. Be sure to check and clean the sensor regularly.



The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.**


SSD0253

When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the ICC system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

System temporarily unavailable

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

Condition A:

Under the following conditions, the ICC system is automatically canceled. A chime will sound and the system will not be able to be set:

- When the VDC/ESP is turned off
- When the VDC/ESP (including the traction control system) operates
- When the SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models).
- When a vehicle ahead is not detected and your vehicle is traveling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at a standstill
- When the shift lever is not in the "D" (Drive) position
- When the parking brake is applied
- When a tire slips
- When the radar signal is temporarily interrupted
- When any door is open
- On repeated uphill and downhill roads

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

Condition B:

The chime will sound and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

- When the radar sensor area is covered with dirt or is obstructed, or the front radar is impaired due to dirt or another obstruction blocking the radar sensor, making it impossible to detect a vehicle ahead, the ICC system is automatically canceled.

Action to take:

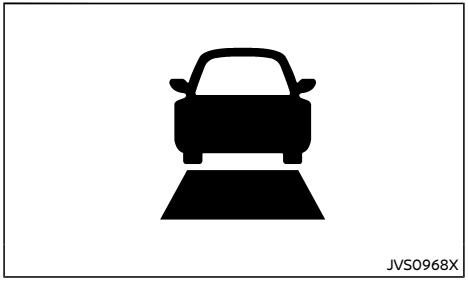
If the warning message appears, stop the vehicle in a safe place, push the park button to engage the "P" (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area and restart the engine. If the "Temporarily Disabled Front Radar Blocked" warning message continues to be displayed, have the ICC system checked by a NISSAN dealer.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the system may display the "Temporarily Disabled Front Radar Blocked" warning message in the vehicle information display.

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

System malfunction


JVS0968X

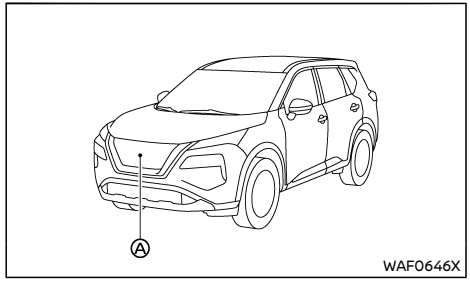
When the ICC system is not operating properly, the chime sounds and the ICC system warning (yellow) and the "System fault See Owner's Manual" warning message will appear.

Action to take:

If the warning appears, push the park button to shift to the "P" (Park) position, turn the engine off, restart the engine, resume driving, and set the ICC system again.

If it is not possible to set the system or the warning stays on, it may indicate that the ICC system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. See a NISSAN dealer for this service.

System maintenance



WAF0646X

The sensor for the ICC system Ⓐ is located on the front of the vehicle.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Contact a NISSAN dealer before customizing or restoring the front bumper.

Radio frequency statement:

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

This mode allows driving at a speed between 30 to 180 km/h (20 to 112 MPH) without keeping your foot on the accelerator pedal.

WARNING:

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - **— When it is not possible to keep the vehicle at a set speed**
  - **— In heavy traffic or in traffic that varies in speed**

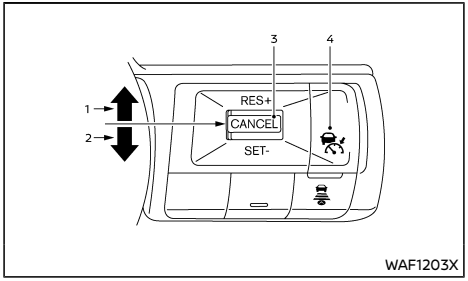
— On winding or hilly roads

— On slippery roads (rain, snow, ice, etc.)

— In very windy areas

- **Doing so could cause a loss of vehicle control and result in an accident.**

Conventional (fixed speed) cruise control switches



WAF1203X

1. RES+ operation:

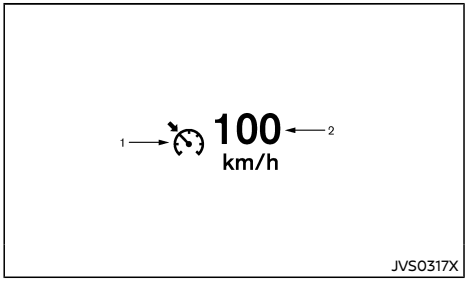
   Resumes vehicle set speed or increases speed incrementally
2. SET- operation:

   Sets desired cruise speed or reduces speed incrementally
3. CANCEL switch:

   Deactivates the system without erasing the vehicle set speed
4. Cruise ON/OFF switch:

   Main switch to activate or deactivate the system

Conventional (fixed speed) cruise control mode display and indicators



JVS0317X

The display is located in the vehicle information display.

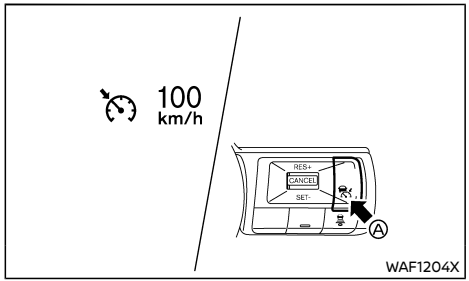
1. Cruise indicator:

   This indicator indicates the condition of the conventional (fixed speed) cruise control mode of the ICC system depending on a color.
   - Cruise control ON indicator (gray): Indicates that the Cruise ON/OFF switch is on
   - Cruise control SET indicator (green): Indicates that the cruising speed is set
   - Cruise control warning (yellow): Indicates that there is a malfunction in the conventional (fixed speed) cruise control mode of the ICC system
2. Vehicle set speed indicator:

   This indicator indicates the vehicle set speed.
   - Green: Cruise control active
   - Gray: Cruise control standby

   (The speed unit can be converted between "km/h" and "MPH" (if equipped). See "Unit/Language" (P.2-28).)

Operating conventional (fixed speed) cruise control mode



WAF1204X

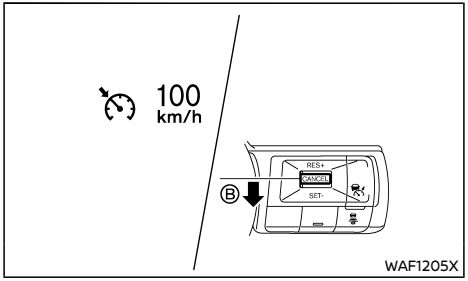
To turn on the conventional (fixed speed) cruise control mode, push and hold the Cruise ON/OFF switch Ⓐ for longer than about 1.5 seconds.

When pushing the Cruise ON/OFF switch on, the ICC system display and indicators are displayed in the vehicle information display. After you hold the Cruise ON/OFF switch on for longer than about 1.5 seconds, the ICC system display turns off. The cruise indicator appears. You can now set your desired cruising speed. Pushing the Cruise ON/OFF switch again will turn the system completely off. When the ignition switch is placed in the "OFF" position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the Cruise ON/OFF switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

WARNING:

To avoid accidentally engaging cruise control, make sure to turn the Cruise ON/OFF switch off when not using the ICC system.



WAF1205X

To set cruising speed, accelerate your vehicle to the desired speed, push down the CANCEL switch to SET- Ⓑ and release it. (The color of the cruise indicator changes to green and vehicle set speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset vehicle speed, use any of the following methods:

- Push the CANCEL switch. The vehicle set speed indicator and the cruise indicator will turn gray.
- Tap the brake pedal. The vehicle set speed indicator and the cruise indicator will turn gray.
- Turn the Cruise ON/OFF switch off. Both the cruise indicator and vehicle set speed indicator will turn off.

To reset at a faster cruising speed, use one of the following three methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push up and hold the CANCEL switch to RES+. When the vehicle attains the desired speed, release the switch.
- Push up the CANCEL switch to RES+, then quickly release it. Each time you do this, the vehicle set speed will increase by about 1 km/h (1 MPH).

To reset at a slower cruising speed, use one of the following three methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push down and hold the CANCEL switch to SET-. Release the switch when the vehicle slows down to the desired speed.
- Push down, then quickly release the SET- switch. Each time you do this, the vehicle set speed will decrease by about 1 km/h (1 MPH).

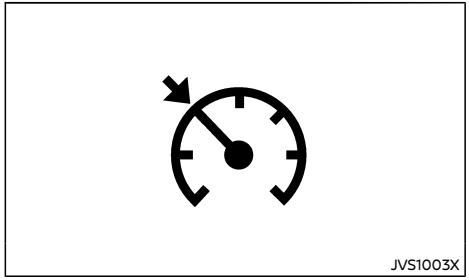
To resume the preset vehicle speed, push up the CANCEL switch to RES+ and release it. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH).

System temporarily unavailable

A chime sounds under the following conditions and the control is automatically canceled.

- When the shift lever is not in the “D” (Drive) position
- When the parking brake is applied
- When the VDC/ESP system (including the traction control system) operates
- When the VDC/ESP system is turned off
- When a wheel slips

Warning


JVS1003X

When the system is not operating properly, the chime sounds and the color of the cruise indicator will change to yellow.

Action to take:

If the color of the cruise indicator changes to yellow, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the system checked. It is recommended you visit a NISSAN dealer for this service.

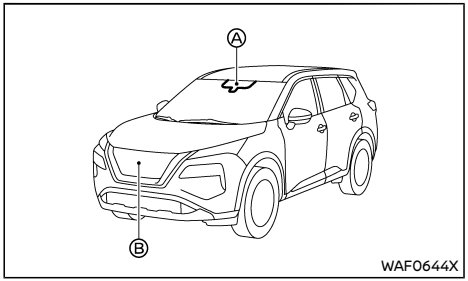
ProPILOT: system name applied to all countries except for Europe and Mexico

ProPILOT Assist: system name applied to Europe and Mexico

WARNING:

Failure to follow the warnings and instructions for proper use of the ProPILOT system could result in serious injury or death.

- **ProPILOT is not a self-driving system. Within the limits of its capabilities, as described in this manual, it helps the driver with certain driving activities.**
- **The ProPILOT system is not a replacement for proper driving procedures and is not designed to correct careless, inattentive or absent-minded driving. ProPILOT will not always steer the vehicle to keep it in the lane. The ProPILOT system is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **There are limitations to the ProPILOT system capability. The ProPILOT system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **The ProPILOT system is only an aid to assist the driver and is not a collision warning or avoidance device.**
- **The ProPILOT system is for use on highways with opposing traffic separated by a barrier only, and is not intended for city driving. Failure to apply the brakes or steer the vehicle when necessary may result in a serious accident.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.**
- **Never unfasten your safety belt when using ProPILOT. Doing so automatically cancels the ProPILOT system.**
- **The ProPILOT system does not react when approaching stationary or slow moving vehicles.**
- **Always drive carefully and attentively when using the ProPILOT system. Read and understand the Owner's Manual thoroughly before using the ProPILOT system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ProPILOT system except in appropriate road and traffic conditions.**

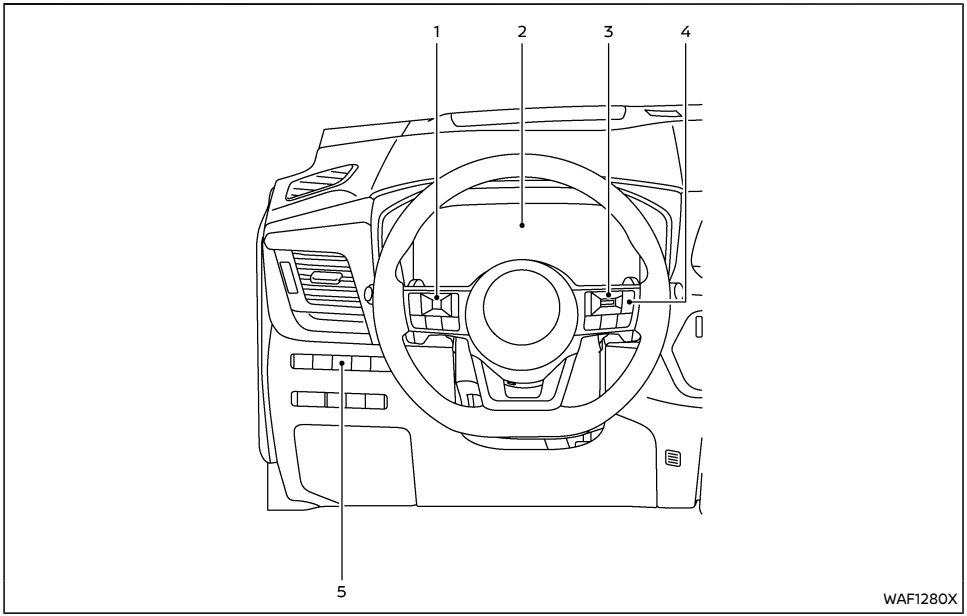


The ProPILOT system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

The ProPILOT system uses a multi-sensing front camera Ⓐ installed behind the windshield to monitor the lane markers and a radar sensor Ⓑ located on the front of the vehicle to measure the distance to the vehicle ahead in the same lane. If the system detects a slower moving vehicle ahead, the system will reduce the vehicle speed so that your vehicle follows the vehicle in front at the selected distance. The system will also help keep the vehicle centered in the traveling lane when clear lane markings are detected.

NOTE:

It is important to ensure the front camera and radar sensors are clear at all times. (See "ICC sensor maintenance" (P.5-129) and "Steering Assist maintenance" (P.5-133) for more details.)



① Steering-wheel-mounted control (left)
② Vehicle information display
③ Steering-wheel-mounted control (right)
④ ProPILOT switch
⑤ Steering Assist switch

PROPILOT SYSTEM OPERATION

The ProPILOT system has the following two functions:

1. Intelligent Cruise Control (ICC)

The ICC system can be set to one of two cruise control modes:

- Conventional (fixed speed) cruise control mode:

  For cruising at a preset vehicle speed

For additional information, see "Turning the conventional (fixed speed) cruise control mode ON" (P.5-113).

NOTE:

Steering Assist is not available in the conventional (fixed speed) cruise control mode.

- Vehicle-to-vehicle distance control mode:

  The ICC system maintains a selected distance from the vehicle in front of you within the speed range of 0 km/h (0 MPH) up to the vehicle set speed. The vehicle set speed can be selected by the driver above approximately 30 km/h (20 MPH). When the vehicle ahead slows to a stop, your vehicle gradually decelerates to a standstill. When the vehicle is stopped, the ICC system maintains braking force to keep your vehicle stationary.
- When your vehicle is stopped for less than approximately 3 seconds and the vehicle ahead begins to move, your vehicle will start moving again automatically. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.
- When the vehicle ahead begins to move forward, push up the CANCEL switch to RES + on the steering wheel or lightly depress the accelerator pedal to release the brake. The ICC system will restart to maintain a selected distance from the vehicle in front

of you.

- Always check surroundings before restarting the vehicle.
- When stationary and no vehicle is detected ahead, the ICC system will not function. The accelerator pedal should be used to control the vehicle speed.

NOTE:

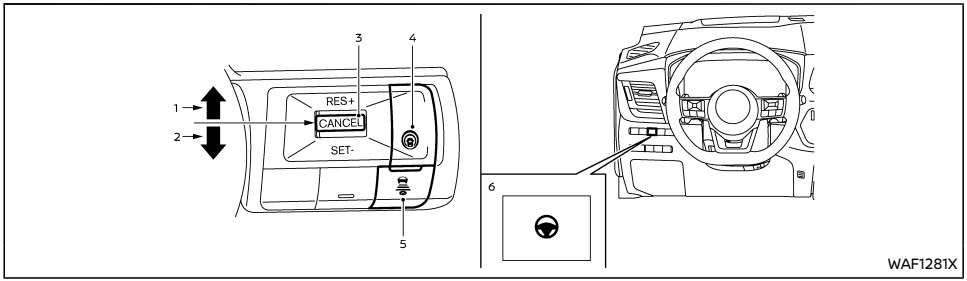
Even if the Intelligent Emergency Braking setting is turned off by the driver using the "Settings" menu in the vehicle information display, Intelligent Emergency Braking will be automatically turned on when ICC is used.

2. Steering Assist

The Steering Assist function controls the steering system to help keep your vehicle within the traveling lane.

When there is no vehicle ahead, Steering Assist is not available at speeds under 60 km/h (37 MPH).

PROPILOT SWITCHES



1. RES+ operation:

   Resumes vehicle set speed or increases speed incrementally
2. SET- operation:

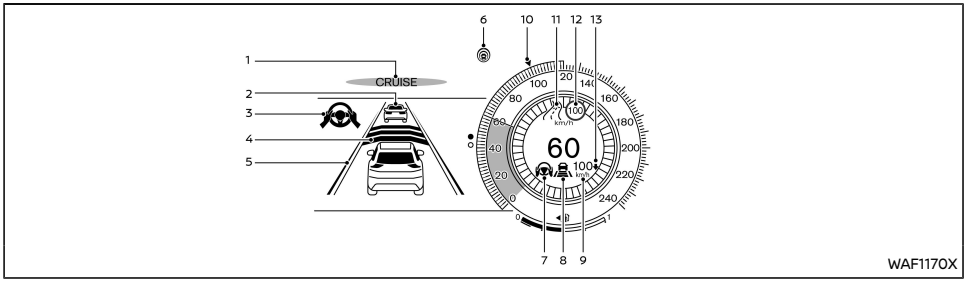
   Sets desired cruise speed or reduces speed incrementally
3. CANCEL switch:

   Deactivates the ProPILOT system without erasing the set speed
4. ProPILOT switch:

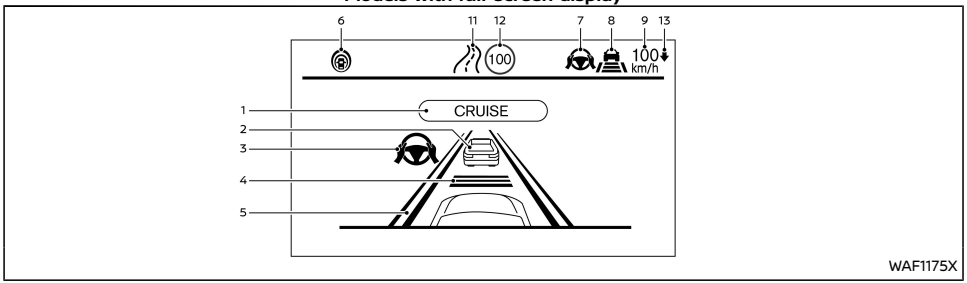
   Turns the ProPILOT system on or off
5. DISTANCE switch:
   - Long
   - Middle
   - Short
6. Steering Assist switch:

   Turns the Steering Assist function on or off

PROPILOT SYSTEM DISPLAY AND INDICATORS



Models with full-screen display



Models with analog meter and color display

1. **ProPILOT activation**

   Displays once the ProPILOT system is activated

2. **Vehicle ahead detection indicator**

   Displays whether the system detects a vehicle in front of you (only when ICC is active)

3. **Steering Assist indicator**

   Indicates the status of the Steering Assist function by the color of the indicator

   - Steering Assist indicator (gray): Steering Assist standby
   - Steering Assist indicator (green): Steering Assist active

4. **Set distance indicator**

   Displays the selected distance

5. **Lane marker indicator**

   Indicates whether the system detects lane markers

   - No lane markers displayed: Steering Assist is turned off
   - Lane marker indicator (gray): No lane markers detected
   - Lane marker indicator (green): Lane markers detected, Steering Assist is active
   - Lane marker indicator (yellow): Lane departure is detected

6. **ProPILOT status indicator** ( )

   Indicates the status of the ProPILOT system by the color of the indicator

   - ProPILOT status indicator (white): ProPILOT is on but in standby
   - ProPILOT status indicator (blue): ProPILOT active

7. **Steering Assist status indicator/warning** (,)

   Displays the status of the Steering Assist by the color of the indicator/warning

   - No Steering Assist status indicator displayed: Steering Assist is turned off
   - Steering Assist status indicator (gray): Steering Assist standby
   - Steering Assist status indicator (green): Steering Assist active
   - Steering Assist status indicator (yellow): Steering Assist malfunction
   - Steering Assist status indicator (red): Hands off detected

8. **Speed control status indicator/set distance indicator/lane marker indicator** ( )

   Displays the status of speed control by the color of the indicator, and displays the selected distance by the number of horizontal bars shown

- Speed control status indicator (white): ICC standby
- Speed control status indicator (green): ICC (distance control mode) is active
  - — Green vehicle icon displayed: Vehicle detected ahead
  - — No vehicle icon shown: No vehicle detected ahead (Your vehicle maintains the driver-selected set speed.)
- Speed control status indicator (yellow): Indicates an ICC malfunction

For the lane marker indicator, see "Steering Assist display and indicators" (P.5-130).

9. **Vehicle set speed indicator**

   Indicates the vehicle set speed
   - Green: ICC active
   - Gray: ICC standby

   (The speed unit can be converted between "km/h" and "MPH" (if equipped). See "Unit/Language" (P.2-28).)

10. **Target speed indicator (if equipped)**

    Indicates the target vehicle speed
    - White triangle: Cruise control or speed limiter (if equipped) target speed
    - Green triangle: ICC target speed

11. **Road information indicator (if equipped)** (, ,)

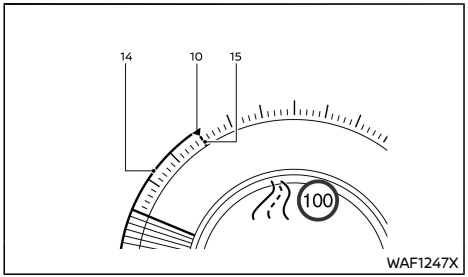
    Indicates the detected road information

12. **Detected road sign (speed limit) indicator (if equipped)** (50)

    Indicates the currently detected speed limit

13. **Speed Limit Link indicator (if equipped)** (**A**, , / ,)

    Indicates the Speed Limit Link activation mode or system operation



14. **Green line (if equipped)**

    Indicates a gap between the current speed and the ICC target speed

15. **Red line (if equipped)**

    Indicates the Traffic Sign Recognition (TSR) speed limit marker

NOTE:
- **Some of the items listed above are only available in classic view (models with full-screen display), shown in the illustration above. (See "Changing the meter screen view (models with full-screen display)" (P.2-9).)**
- **When the ProPILOT system is activated, the display will automatically be switched to the ProPILOT system display. To disable this function, turn "AUTO Cruise Display" off under "Display Settings" of the settings menu.**

The ProPILOT display is also shown in the Head Up Display (HUD) (if equipped). (See "Head Up Display (HUD)" (P.2-46).)

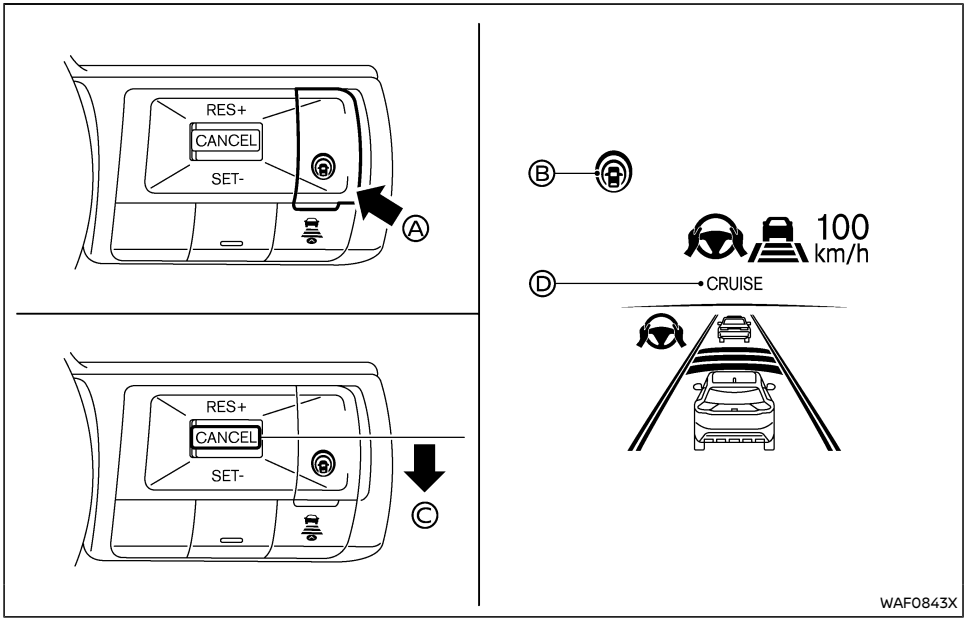
TURNING THE CONVENTIONAL (fixed speed) CRUISE CONTROL MODE ON

NOTE:

ProPILOT provides no approach warnings, automatic braking, or Steering Assist in the conventional (fixed speed) cruise control mode.

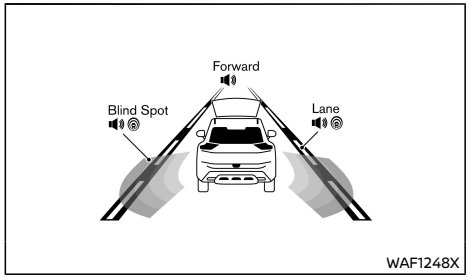
To choose the conventional (fixed speed) cruise control mode, push and hold the ProPILOT switch for longer than approximately 1.5 seconds. For additional information, see "Conventional (fixed speed) cruise control mode" (P.5-134).

OPERATING PROPILOT



Example

1. Push the ProPILOT switch Ⓐ. This turns on the ProPILOT system.
   - The ProPILOT status indicator Ⓑ illuminates in white.
   - A screen is displayed for a period of time that indicates the status of the Driving Aid functions (if equipped).

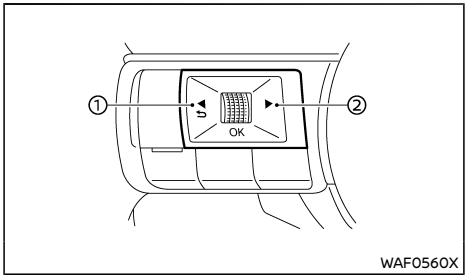


Example (all enabled)

When the Driving Aids are enabled:

Zone	Driving Aid
Forward	Intelligent Emergency Braking with Pedestrian Detection
	Intelligent Forward Collision Warning
Lane	Lane Departure Warning (LDW)
	Intelligent Lane Intervention
Blind Spot	Blind Spot Warning (BSW)
	Intelligent Blind Spot Intervention (if equipped)

- When any of the "Warning" systems are enabled, the " " mark is shown in each zone.
- When any of the "Intervention" systems are enabled, the " " mark is shown in each zone.
- When no system is enabled, "OFF" is shown in each zone.



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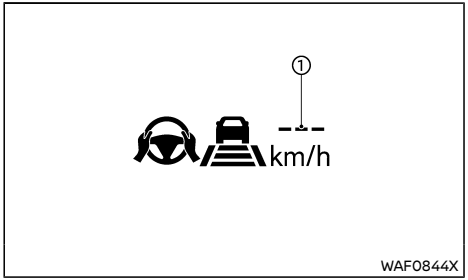
To change the status of the Driving Aids, use ① or ② to navigate the settings screen. For additional information, see "How to use the vehicle information display" (P.2-21).

2. Accelerate or decelerate your vehicle to the desired speed and push down the CANCEL switch to SET- Ⓒ.

   The ProPILOT system begins to automatically maintain the vehicle set speed. The ProPILOT activation indicator Ⓓ and ProPILOT status indicator Ⓑ illuminate in blue. When a vehicle ahead is detected and traveling at a speed of 30 km/h (20 MPH) or below and the CANCEL switch is pushed down to SET-, the vehicle set speed is 30 km/h (20 MPH).

NOTE:

When the Intelligent Lane Intervention system (if equipped) and Intelligent Blind Spot Intervention system (if equipped) are enabled in the settings menu of the vehicle information display, turning the ProPILOT system on will turn on these systems at the same time. If the Intelligent Lane Intervention system (if equipped) and Emergency Lane Assist (ELA) system (if equipped) are disabled In the settings menu, the Intelligent Lane Intervention system and the ELA system will automatically be turned on when the Steering Assist system is active. For additional information, see "Intelligent Lane Intervention" (P.5-53), "Intelligent Lane Intervention" (P.5-131), "Intelligent Blind Spot Intervention" (P.5-77), "Emergency Lane Assist (ELA) system (Type A)" (P.5-58), "Emergency Lane Assist (ELA) system (Type B)" (P.5-65) and "Emergency Lane Assist (ELA)" (P.5-131).



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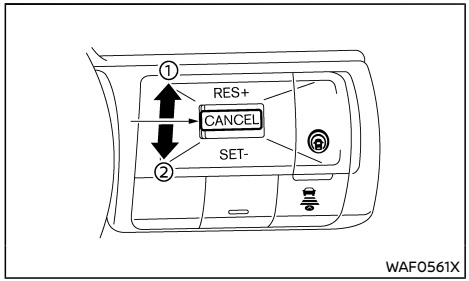
When the CANCEL switch is pushed down to SET- under the following conditions, the ProPILOT system cannot be set and the vehicle set speed indicator ① blinks for approximately 2 seconds:

- When traveling below 30 km/h (20 MPH) and a vehicle ahead is not detected
- When the shift lever is moved out of the "D" (Drive) position or into the manual shift mode
- When the parking brake is applied
- When the brakes are operated by the driver
- When the VDC/ESP system is off. For additional information, see "Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system" (P.5-172).
- When the VDC/ESP system (including the traction control system) is activated
- When the SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models).
- When a wheel is slipping
- When any door is open
- When the driver's seat belt is not fastened

How to change the vehicle set speed



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The vehicle set speed can be adjusted.

To change to a faster cruising speed:

- Push up and hold the CANCEL switch to RES+ ①. The vehicle set speed increases in increments of 10 km/h or 5 MPH.
- Push up the CANCEL switch to RES+ ①, then quickly release it. Each time you do this, the vehicle set speed increases by 1 km/h (1 MPH).

To change to a slower cruising speed:

- Push down the CANCEL switch to SET- ②, then quickly release it. The vehicle set speed decreases in increments of 10 km/h or 5 MPH.
- Push down the CANCEL switch to SET- ②, then quickly release it. Each time you do this, the vehicle set speed decreases by 1

km/h (1 MPH).

How to momentarily accelerate or decelerate

- Depress the accelerator pedal when acceleration is required. Release the accelerator pedal to resume the previously set vehicle speed.
- Depress the brake pedal when deceleration is required. Control by the ProPILOT system is canceled. Push up the CANCEL switch to RES+ to resume the previously set vehicle speed.

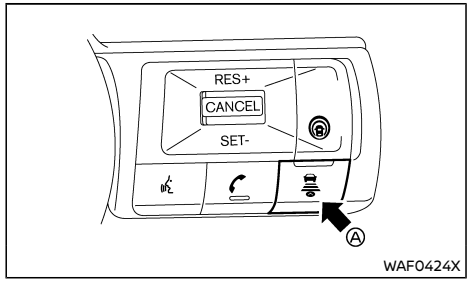
WARNING:

When the accelerator pedal is depressed and you are approaching the vehicle ahead, the ICC system will neither control the brake nor warn the driver with the chime and display. The driver must manually control the vehicle speed to maintain a safe distance to the vehicle ahead. Failure to do so could result in severe personal injury or death.

NOTE:

When you accelerate by depressing the accelerator pedal or decelerate by pushing down the CANCEL switch to SET- and the vehicle travels faster than the speed set by the driver, the vehicle set speed indicator will blink.

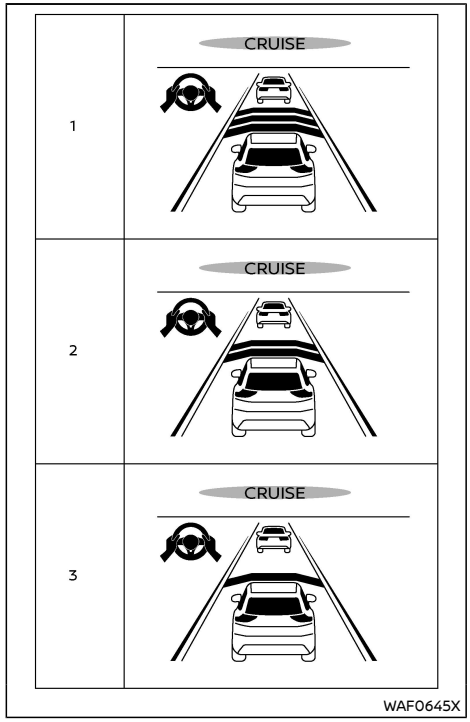
How to change the set distance to the vehicle ahead



Example

The distance to the vehicle ahead can be selected at the time of the ICC standby or the ICC is active.

Each time the DISTANCE switch Ⓐ is pushed, the set distance will change to “long”, “middle”, “short” and back to “long” again in that sequence.



Example

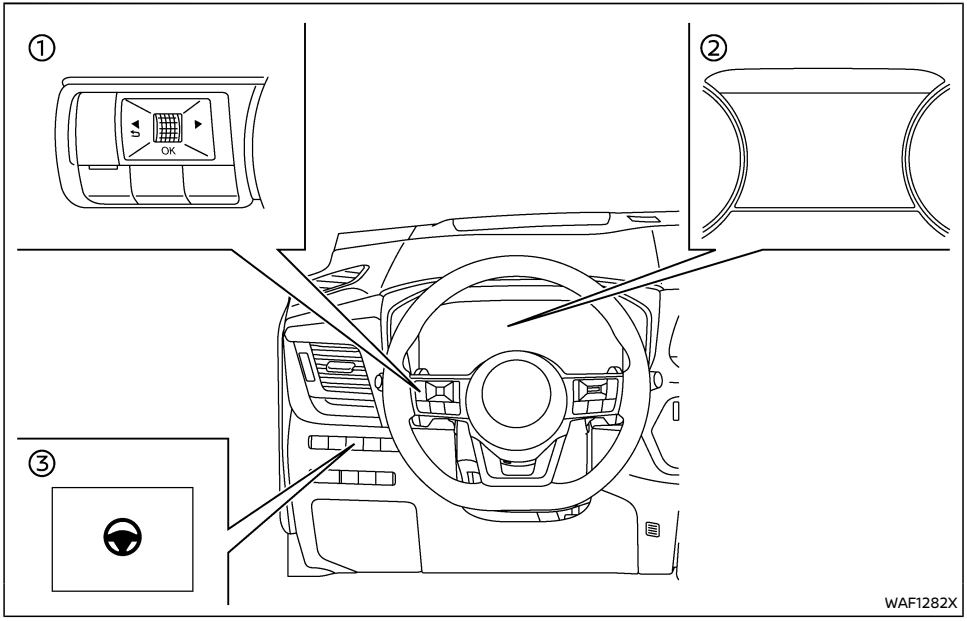
Distance — approximate distance at 100 km/h (60 MPH)

1. Long – 60 m (200 ft)
2. Middle – 45 m (150 ft)
3. Short – 30 m (90 ft)

- The actual distance to the vehicle ahead adjusts automatically according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- The distance setting will remain at the current setting even if the engine is restarted.

HOW TO ENABLE/DISABLE THE STEERING ASSIST

Use the following methods to enable or disable the Steering Assist.



① Steering-wheel-mounted control (left)
② Vehicle information display
③ Steering Assist switch

Steering Assist switch:

To turn the Steering Assist on or off, push the Steering Assist switch ③ on the instrument panel.

NOTE:

- **When the Steering Assist switch is used to turn the system on or off, the system remembers the setting even if the ignition switch is cycled. The switch must be pushed again to change the setting to on or off.**
- **The Steering Assist switch changes the status of the "Steering Assist" selection made in the "Settings" screen in the vehicle information display.**

Setting in the vehicle information display:

1. Push the ◀ ▶ button on the steering wheel ① until "Settings" appears in the vehicle information display ② and then push the scroll dial.
2. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
3. Select "Steering Assist" and push the scroll dial to turn the Steering Assist on or off.

NOTE:

- **When the ProPILOT screen is displayed on the vehicle information display, push the scroll dial on the steering wheel to call up the "Driver Assistance" setting display.**
- **When enabling/disabling the system through the vehicle information display, the system retains the current settings even if the engine is restarted.**

HOW TO CANCEL THE PROPILOT SYSTEM

To cancel the ProPILOT system, use one of the following methods:

- Push the CANCEL switch.
- Tap the brake pedal (except at a standstill).
- Push the ProPILOT switch to turn the system off. The ProPILOT status indicator will turn off.

When the ProPILOT system is canceled while the vehicle is stopped, the electronic parking brake is automatically activated.

WARNING:

To prevent the vehicle from moving or rolling unexpectedly, which could result in serious personal injury or property damage, before exiting the vehicle make sure to push the ProPILOT switch to turn the system off, push the park button to shift to the "P" (Park) position, and turn the engine off.

INTELLIGENT CRUISE CONTROL (ICC)

- The Intelligent Cruise Control (ICC) is a part of the ProPILOT system. To choose the ICC system without the Steering Assist, activate the ProPILOT and then turn off the Steering Assist with the switch or in the settings menu. For additional information, see "Operating ProPILOT" (P.5-114) and "How to enable/disable the Steering Assist" (P.5-117).
- To choose the conventional (fixed speed) cruise control mode, push and hold the ProPILOT switch for longer than approximately 1.5 seconds. For additional information, see "Conventional (fixed speed) cruise control mode" (P.5-134).

WARNING:

Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.

- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is recommended for highway use only and it is not intended for congested areas or city driving. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **There are limitations to the ICC system capability. The ICC system does not function in all driving, traffic, weather, and road conditions. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**
- **The ICC system does not react to stationary or slow moving vehicles.**
- **Always drive carefully and attentively when using the ICC system. Read and understand the Owner's Manual thoroughly before using the ICC system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the ICC system except in appropriate road and traffic conditions.**

ICC system operation

The ICC system is designed to maintain a selected distance from the vehicle in front of you and can reduce the speed to match a slower vehicle ahead. The system decelerates the vehicle as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the ICC system can only apply up to approximately 40% of the vehicle's total braking power.

This system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or when vehicle speeds change gradually. If a vehicle moves into the traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system sounds a warning chime and blinks the system display to notify the driver to take necessary action.

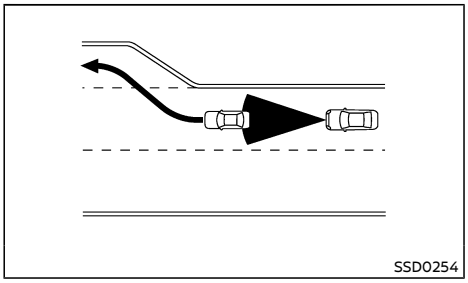
For ProPILOT with Navi-link equipped vehicles on a limited access freeway as identified in the navigation map data, the ICC system cancels and a warning chime sounds if the speed is below approximately 25 km/h (15 MPH) and a vehicle is not detected ahead. The ICC system

cancels and a warning chime sounds if your vehicle is at a standstill for more than approximately 3 seconds and a vehicle is not detected ahead.

The ICC system operates as follows:

- When there are no vehicles traveling ahead, the ICC system maintains the speed set by the driver. The vehicle set speed range is above approximately 30 km/h (20 MPH).
- When there is a vehicle traveling ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. Once your vehicle stops, the ICC system keeps the vehicle stopped.
- When your vehicle is at a standstill for more than 3 seconds and the vehicle ahead begins to accelerate, push up the CANCEL switch to RES+ or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.
- When the vehicle traveling ahead moves to a different traveling lane, while the vehicle speed is above 30 km/h (20 MPH), the ICC system accelerates and maintains vehicle speed up to the set speed.
- When the vehicle traveling ahead moves to a different traveling lane, while the vehicle speed is below 30 km/h (20 MPH), the ICC system cancels and a warning chime sounds.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.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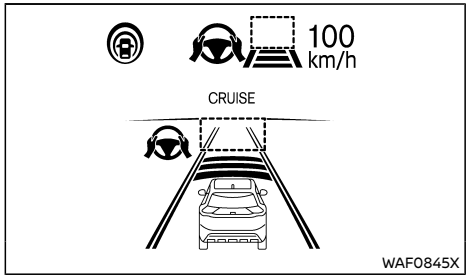
When driving on the highway at a vehicle set speed and approaching a slower traveling vehicle ahead, the ICC system adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the highway, the ICC system accelerates and maintains the vehicle set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, the system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead.

Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.



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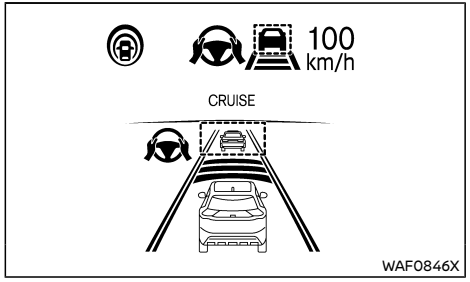
System set display — no vehicle detected ahead*

No vehicle detected ahead:

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the vehicle set speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead. The ICC system displays the vehicle set speed.

*: The design of the set display may differ depending on the model.



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System set display — vehicle ahead*

Vehicle detected ahead:

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The ICC system then adjusts the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

NOTE:

- **The stop lights of the vehicle come on when braking is performed by the ICC system.**
- **When the brake is applied by the system, a noise may be heard. This is not a malfunction.**

When the ICC system detects a vehicle ahead, the vehicle ahead detection indicator is displayed and the speed control status indicator illuminates in green.

*: The design of the set display may differ depending on the model.

Vehicle ahead stops:

When a vehicle ahead is detected and it gradually decelerates to stop, your vehicle decelerates to a standstill. When your vehicle is at a standstill, the "(RES+) Press to Restart" message is displayed on the vehicle information display.

NOTE:

When your vehicle stops for less than 3 seconds, your vehicle will automatically follow the vehicle ahead as it accelerates from a stop. If your vehicle is stationary for more than approximately 3 minutes, the ICC system will be switched off and the electronic parking brake will be applied.

Vehicle ahead accelerates:

- When your vehicle is at a standstill and the vehicle ahead begins to accelerate, push up the CANCEL switch to RES+ or lightly depress the accelerator pedal. The ICC system starts to follow the vehicle ahead.
- Always check surroundings before restarting the vehicle.

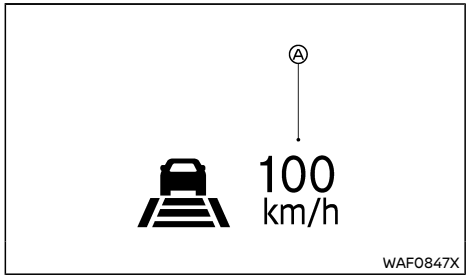
Vehicle ahead not detected:

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously vehicle set speed. The ICC system then maintains the vehicle set speed.

When a vehicle is no longer detected, the vehicle ahead detection indicator and speed control status indicator (maintain speed control mode) turn off.

The ICC system gradually accelerates to the vehicle set speed, but you can depress the accelerator pedal to quickly accelerate. When a vehicle is no longer detected and your vehicle is traveling under approximately 25 km/h (15 MPH), the ICC system automatically cancels.

For ProPILOT with Navi-link equipped vehicles on a limited access freeway as identified in the navigation map data, the ICC system cancels and a chime sounds if your vehicle is at a standstill for more than approximately 3 seconds and a vehicle is not detected ahead.



When passing another vehicle, the vehicle set speed indicator Ⓐ flashes when the vehicle speed exceeds the set speed. The vehicle ahead detection indicator turns off when the area ahead of the vehicle is open. When the pedal is released, the vehicle returns to the previously set speed. Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

Cut-in detection (if equipped)

If a vehicle moves into your traveling lane near your vehicle, the ICC system may inform the driver by flashing the vehicle ahead detection indicator.

Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.

- You judge it necessary to maintain a safe distance.

The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing.
- When a vehicle cuts in near your vehicle.

The warning chime will not sound when:

- Your vehicle approaches other vehicles that are parked or moving slowly.
- The accelerator pedal is depressed, overriding the system.

NOTE:

The approach warning chime may sound and the system display may flash when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding, narrow, or hilly roads or when the vehicle is entering or exiting a curve. In these cases, you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle conditions (for example, if a vehicle is being driven with some damage).

Acceleration when passing (if equipped)

Passing on the left-hand side (for countries where traffic travels on the right-hand side of the road):

When the ICC system is engaged above 70 km/h (44 MPH) and following a slower vehicle (below the ICC set speed), and the turn signal is activated to the left, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the left and will begin to reduce the distance to vehicle directly ahead. Only the left side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the vehicle set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the left lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

Passing on the right-hand side (for countries where traffic travels on the left-hand side of the road):

When the ICC system is engaged above 70 km/h (44 MPH) and following a slower vehicle (below the ICC set speed), and the turn signal is activated to the right, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the right and will begin to reduce the distance to vehicle directly ahead. Only the right side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the vehicle set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the right lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

WARNING:

In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:

- **This function is only activated with the left or right turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include non-passing situations such as left or right side exits.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing. Always manually steer or brake as needed. Never solely rely on the system.**

Speed Limit Link (if equipped)

WARNING:

Listed below are the system limitations for the Speed Limit Link. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

- **It is the driver's responsibility to select the proper speed, follow all traffic regulations and observe other road users.**

- **The Speed Limit Link may not operate properly and the actual speed limit may not be applied to the vehicle set speed in all conditions. The driver must manually control the vehicle speed.**

  Below are some examples:

  — When the Traffic Sign Recognition (TSR) system is not functioning properly or turned off. (See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).)

  — When driving in an area with nearby parallel roads (for example, freeway with a parallel service drive).

  — When driving in an area where each lane has a different speed limit sign.

  — When driving on a road under construction or in a construction zone.

  — When end of the speed limit sign is indicated.

- **When the speed unit selected in the vehicle information display is different to the unit of the speed limit sign.**

When the ICC system is active and it detects a change of the speed limit, the new speed limit is indicated and it can be applied to the vehicle set speed manually.

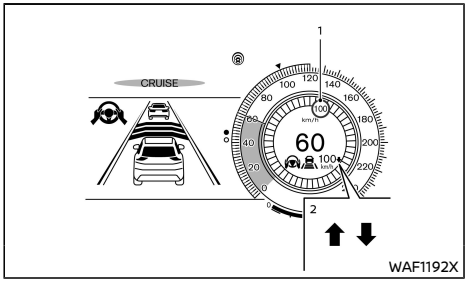
The Speed Limit Link operates:

- When the detected speed limit is 30 km/h (20 MPH) and above.
- The "Speed Limit Link" is enabled in the settings menu of the vehicle information display.

NOTE:

- **In the following situations, the Speed Limit Link will not operate:**
  — When an increase in the posted speed limit is detected, but the vehicle set speed is already faster than the new speed limit.
  — When a decrease in the posted speed limit is detected, but the vehicle set speed is already lower than the new speed limit.

System display and indicators:



Example

1. Detected speed limit indicator

   Displays the currently detected speed limit. For additional information, see "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).

   Applied speed limit indicator (green frame)

   Indicates the detected speed limit can be applied to the vehicle set speed.

2. Speed Limit Link indicator

   Indicates the system operation.

   " ⬆ ": Manual mode is activated and a new speed limit (faster speed value) is indicated.

   " ⬇ ": Manual mode is activated and a new speed limit (lower speed value) is indicated.

Operating the system:

When the system detects a different speed limit, the new speed value is indicated. The vehicle set speed can be changed to the indicated speed limit manually.

- To accept the newly indicated speed limit, perform the RES+ operation (in case of speed limit up) or SET- operation (in case of speed limit down).
- The Speed Limit Link indicator (⬆ or ⬇) will turn off after approximately 15 seconds if the RES+ or SET- operation is not performed. (The Speed Limit Link indicator can be turned off immediately by operating the opposite switch from the direction indicated by the Speed Limit Link indicator.)

The system will not activate if a speed limit change is not detected.

How to activate or deactivate the system:

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Limit Link" and push the scroll dial to turn the system on or off.

NOTE:

The system will retain current settings in the vehicle information display even if the engine is restarted.

Selecting Speed Link Offset:

It is possible to set whether the speed limit should be accepted exactly, or with a tolerance of –10 km/h (-5 MPH) to +10 km/h (+5 MPH).

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Link Offset" and push the scroll dial to select tolerance value. (Select "OFF" to turn off the function.)

NOTE:

The function will retain current settings in the vehicle information display even if the engine is restarted.

Speed Limit Link - a feature of ProPILOT with Navi-link (if equipped)

WARNING:

Listed below are the system limitations for the Speed Limit Link. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

- **It is the driver's responsibility to select the proper speed, follow all traffic regulations and observe other road users.**
- **The Speed Limit Link may not operate properly and the actual speed limit may not be applied to the vehicle set speed in all conditions. The driver must manually control the vehicle speed.**

  Below are some examples:

  — When the Traffic Sign Recognition (TSR) system is not functioning properly or turned off. (See "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).)
  — When driving in countries or areas not covered by the navigation system.
  — When crossing national boundaries.
  — When driving on the exit of the limited access freeway as identified in the navigation map data.
  — When driving in an area with nearby parallel roads (for example, freeway with a parallel service drive).
  — When driving in an area where each lane has a different speed limit sign.
  — When driving on a road under construction or in a construction zone.
  — When the data from the navigation system is not up-to-date or is unavailable.

When the ProPILOT with Navi-link is active and it detects a change of the speed limit, the new speed limit is indicated and it can be applied to the vehicle set speed automatically or manually.

The Speed Limit Link operates:

- When the detected speed limit is 30 km/h (20 MPH) and above.
- The "Speed Limit Link" is enabled in the settings menu of the vehicle information display.

NOTE:

- **While the accelerator pedal is operated with AUTO mode selected, the Speed Limit Link will function (automatically adjust the vehicle set speed) only when the detected speed limit is faster than the vehicle set speed.**
- **In the following situations, the Speed Limit Link will not operate:**
  — When an increase in the posted speed limit is detected, but the vehicle set speed is already faster than the new speed limit.
  — When a decrease in the posted speed limit is detected, but the vehicle set speed is already lower than the new speed limit.

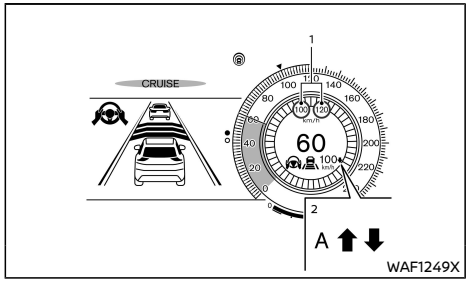
For Germany (No Limit speed setting):

When you turn on the engine and subsequently enter a freeway with no speed limit, the system initially regulates the speed to 130 km/h (80 MPH). After this, the last speed stored by the driver on a freeway with no speed limit is applied.

NOTE:

This feature only works in Germany.

System display and indicators:



Example

1. **Detected speed limit indicator**

   Left side:

   Displays detected impending or anticipated

speed limit. This speed limit will only be indicated when a new speed limit (lower speed value) is detected in Manual mode.

Right side:

Displays the currently detected speed limit. For additional information, see "Traffic Sign Recognition (TSR) (Type A)" (P.5-41).

Applied speed limit indicator (green frame)

Indicates the detected speed limit can be applied to the vehicle set speed.

2. **Speed Limit Link indicator**

   Indicates the system activation mode or system operation.

   " ⬆ " : Manual mode is activated and a new speed limit (faster speed value) is indicated.

   " ⬇ " : Manual mode is activated and a new speed limit (lower speed value) is indicated.

   "A" : Auto mode is activated.

Operating the system:

When the system detects a different speed limit, the new speed value is indicated. The vehicle set speed can be changed to the indicated speed limit automatically or manually.

When Manual mode is selected on settings menu (factory default setting):

- To accept the newly indicated speed limit, perform the RES+ operation (in case of speed limit up) or SET- operation (in case of speed limit down).
- The Speed Limit Link indicator (⬆ or ⬇) will turn off after approximately 15 seconds if the RES+ or SET- operation is not performed. (The Speed Limit Link indicator can be turned off immediately by operating the opposite switch from the direction indicated by the Speed Limit Link indicator.)

The system will not activate if a speed limit change is not detected.

When Auto mode is selected on the settings menu:

- The indicated speed limit is applied to the vehicle set speed automatically when on a limited access freeway as identified in the navigation map data. Also, if the ProPILOT with Navi-link system is ON, but not set (active), and a new speed limit is detected, the vehicle set speed is automatically updated.
- The Auto mode may not be available in some regions or on roads other than limited access freeways. In this case, the system operates as the Manual mode.

How to activate or deactivate the system:

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Limit Link", and push the scroll dial to select "Auto" or "Prompt" to enable (not activate) the system.

To deactivate the system, select "OFF".

NOTE:

The system will retain current settings in the vehicle information display even if the engine is restarted.

Selecting Speed Link Offset:

It is possible to set whether the speed limit should be accepted exactly, or with a tolerance of −10 km/h (-5 MPH) to +10 km/h (+5 MPH).

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "Speed Link Offset" and push the scroll dial to select tolerance value. (Select "OFF" to turn off the function.)

NOTE:

The function will retain current settings in the vehicle information display even if the engine is restarted.

CRUISE Navi Link - a feature of ProPILOT with Navi-link (if equipped)

WARNING:

Listed below are the system limitations for the CRUISE Navi Link. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

- **There are limitations to the CRUISE Navi Link system capability. The system does not function in all driving, traffic, weather and road conditions. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **The CRUISE Navi Link system does not brake the vehicle to a stop. Whenever necessary, the driver must apply appropriate braking.**

- **It is the driver's responsibility to select the proper speed, follow all traffic regulations and observe other road users.**
- **The availability of the CRUISE Navi Link system is country-dependent. In some countries, for example, Iceland, Malta, Cyprus, this function is not available. The map data quality does not satisfy the system requirements. If the system detects that the vehicle is located in these countries on the basis of GPS information, the system prohibits activation of the CRUISE Navi Link function.**
- **The CRUISE Navi Link may not operate properly in some road and traffic conditions, the system may unexpectedly change the speed. The driver must manually control the vehicle speed.**

  Below are some examples:

  — When driving in countries or areas not covered by the navigation system.

  — When the data from the navigation system is not up-to-date or is unavailable.

  — When not driving along the route suggested by the navigation system.

  — When the navigation system is recalculating the route.

  — When driving in countries or areas not covered by the navigation system.

  — When driving on a road under construction or newly constructed road.

  — When driving near a road split or junction.

  — When driving in bad weather or poor road conditions.

When the ProPILOT with Navi-link is active on a limited access freeway (as identified in the navigation map data), the CRUISE Navi Link uses road information provided by the navigation system and can adjust the vehicle speed depending on curves, junctions and exits.

The CRUISE Navi Link uses road information provided by the navigation system and can adjust the vehicle speed depending on roundabouts (as identified in the navigation map data).

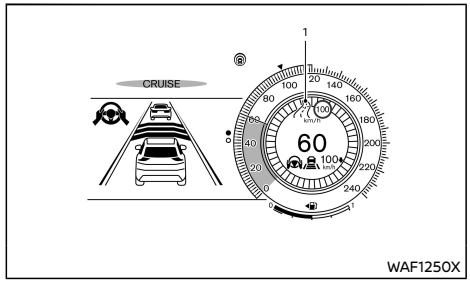
The system may not always reduce speed for all curves, junctions, roundabouts or exits and the driver may need to apply additional braking at any time.

When the vehicle is through the curve, roundabout or junction, the vehicle will accelerate again to the set speed. When exiting the limited access freeway, the driver will need to apply braking at the end of the exit.

NOTE:

- **The system does not operate when the accelerator pedal is depressed.**
- **The system may not operate depending on the set distance to the vehicle ahead and vehicles detected ahead.**

System display and indicators:



Example

1. Road information indicator

   Appears when the system adjusts the speed depending on turns or exits.

	Curves and junctions
	Right exits
	Left exits
	Roundabouts

How to activate or deactivate the system:

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears in the vehicle information display, and push the scroll dial.
2. Use the scroll dial to select "Driver Assistance". Then push the scroll dial.
3. Select "CRUISE Navi Link" and push the scroll dial to turn the system on or off.

NOTE:

The system will retain current settings in the vehicle information display even if the engine is restarted.

ICC system limitations

WARNING:

Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death:

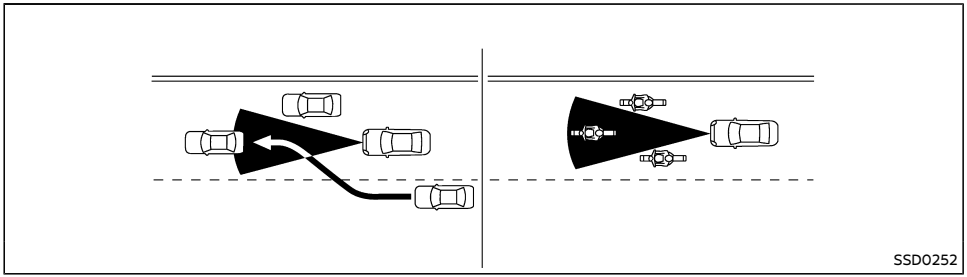
- **The ICC system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the ICC system in city traffic or congested areas.**
- **The ICC system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves or on icy roads, in heavy rain or in fog.**
- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absentminded driving or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**
- **When the ICC system automatically brings the vehicle to a stop, your vehicle can automatically accelerate if the vehicle is stopped for less than approximately 3 seconds. Be prepared to stop your vehicle if necessary.**
- **Always check surroundings before restarting the vehicle.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.**
- **The ICC system does not detect the following objects:**
  - **— Stationary or slow moving vehicles (when your vehicle is approaching them)**
  - **— Pedestrians or objects in the roadway**
  - **— Oncoming vehicles in the same lane**
  - **— Motorcycles traveling offset in the travel lane**
- **The ICC system may not detect a vehicle ahead in certain road, weather or driving conditions. To avoid accidents, never use the ICC system under the following conditions:**
  - **— On roads with heavy, high-speed traffic or sharp curves**
  - **— On slippery road surfaces such as on ice or snow, etc.**
  - **— On a bumpy road surface, such as an uneven dirt road**
  - **— On steep downhill roads (the vehicle may go beyond the vehicle set speed and frequent braking may result in overheating the brakes)**
  - **— On repeated uphill and downhill roads**
  - **— During bad weather (rain, fog, snow, etc.)**
  - **— When the sensor detection is reduced (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles)**
  - **— When dirt, ice, snow or other material adhere to the radar sensor area**
  - **— When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
  - **— When a complicated-shaped vehicle such as a car carrier trailer or flatbed truck/trailer is near the vehicle ahead**
  - **— When there is interference by other radar sources**
  - **— When excessively heavy baggage is loaded in the rear seat or cargo area of your vehicle**
- **Do not use the ICC system if you are towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe). The system may not detect a vehicle ahead.**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. Always stay alert and avoid using the ICC system where not recommended in this warning section.**
- **The ICC system also uses a multi-sensing front camera. The following are some conditions in which the camera may not properly detect a vehicle and detection of a vehicle ahead may be delayed:**

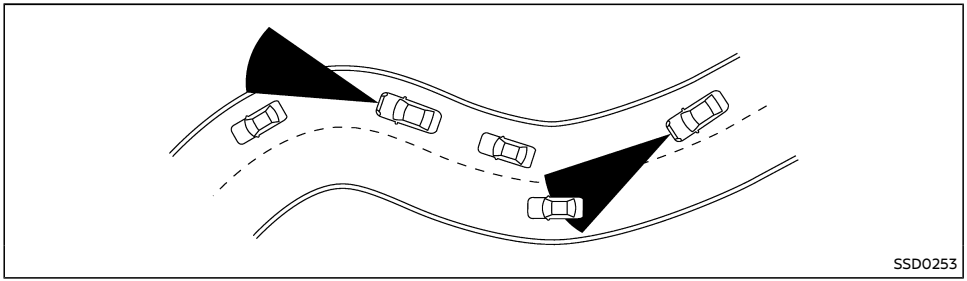
- **— Poor visibility (conditions such as rain, snow, fog, dust storms, sandstorms, and road spray from other vehicles)**
- **— The camera area of the windshield is fogged up or covered with dirt, water drops, ice, snow, etc.**
- **— Strong light (for example, sunlight or high beams from oncoming vehicles) enters the front camera**
- **— A sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or shaded area or lightning flashes)**

The ICC system is designed to automatically check the radar sensor's operation within the limitations of the system

The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the ICC system to maintain the selected distance from the vehicle ahead. A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the center line of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from the vehicle traveling ahead.


SSD0252


SSD0253

When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the ICC system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition.

If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.

ICC system temporarily unavailable

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

Condition A:

Under the following conditions, the ICC system is automatically canceled. A chime will sound and the system will not be able to be set:

- Any door is open.
- The driver's seat belt is unfastened.
- The vehicle ahead is not detected and your vehicle is traveling below the speed of 25 km/h (15 MPH). For ProPILOT with Navi-link equipped vehicles on a limited access freeway as identified in the navigation map data, the ICC system cancels and a warning chime sounds if your vehicle is at a standstill for more than approximately 3 seconds and a vehicle is not detected ahead.
- Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.
- The shift lever is moved out of the D (Drive) position or into the manual shift mode.
- The electronic parking brake is applied.
- The VDC/ESP system is turned off.
- The Intelligent Emergency Braking applies harder braking
- VDC/ESP (including the traction control system) operates.
- When the SNOW mode or the OFF-ROAD mode is selected (4WD/AWD models).
- A wheel slips.
- When the front radar is impaired due to dirt or an other obstruction blocking the radar sensor.
- When the radar signal is temporarily interrupted.

Action to take:

When the conditions listed above are no longer present, turn the system off using the ProPILOT switch. Turn the ProPILOT system back on to use the system.

NOTE:

When the ICC system is canceled under any of the following conditions at a standstill, the electronic parking brake is automatically activated:

- **Any door is open.**
- **The driver's seat belt is unfastened.**
- **Your vehicle has been stopped by the ICC system for approximately 3 minutes or longer.**
- **The shift lever is moved out of the "D" (Drive) position or into the manual shift mode.**
- **The VDC/ESP system is turned off.**
- **When the front radar is impaired due to dirt or an other obstruction blocking the radar sensor.**
- **When the radar signal is temporarily interrupted.**

Condition B:

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the ICC system will automatically be canceled, the chime will sound and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

Action to take:

When the above condition is no longer present, the warning message will no longer be available in the vehicle information display and the system will operate normally. If the warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition C:

When the radar sensor on the front of the vehicle is covered with dirt or is obstructed, the ICC system will automatically be canceled.

The chime will sound and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

Action to take:

If the warning message appears, stop the vehicle in a safe place, push the park button to engage the "P" (Park) position, and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area and restart the engine. If the warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition D:

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the chime will sound and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

ICC system malfunction

If the ICC system malfunctions, it will be turned off automatically, a chime will sound, the "System fault See Owner's Manual" warning message will appear and the speed control status warning (yellow) will illuminate.

Action to take:

If the warning illuminates, stop the vehicle in a safe place. Turn the engine off, restart the engine and set the ICC system again. If it is not possible to set the ICC system or the warning stays on, it may be a malfunction. Although the normal driving can be continued, the ICC system should be inspected. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the ICC system is temporarily unavailable, the conventional cruise control mode may still be used. For additional information, see "Conventional (fixed speed) cruise control mode" (P.5-134).

ICC sensor maintenance

The radar sensor is located on the front of the vehicle.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area clean.
- Do not strike or damage the areas around the sensor.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove, or paint the front bumper.

Before customizing or restoring the front bumper, it is recommended that you visit a NISSAN dealer.

The camera sensor is located above the inside rearview mirror.

To keep the proper operation of the systems and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

For additional information, see "Common troubleshooting guide" (P.5-35).

Radio frequency statement:

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

STEERING ASSIST

WARNING:

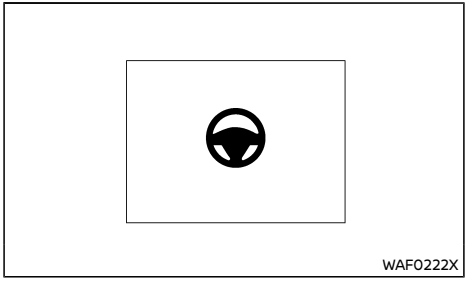
Failure to follow the warnings and instructions for proper use of the Steering Assist could result in serious injury or death.

- **The Steering Assist is not a replacement for proper driving procedures and is not designed to correct careless, inattentive or absent-minded driving. The Steering Assist will not always steer the vehicle to keep it in the lane. It is not designed to prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**
- **As there is a performance limit to the Steering Assist's capability, never rely solely on the system. The Steering Assist does not function in all driving, traffic, weather, and road conditions. Always drive safely, pay attention to the operation of the vehicle, and manually control your vehicle appropriately.**
- **The Steering Assist is intended for use on well-developed motorways or highways with gentle (moderate) curves, where traffic traveling in opposing directions is separated with a barrier. To avoid risk of an accident, do not use this system on**

local or non-highway or non-urban expressway roads.

- **The Steering Assist only steers the vehicle to maintain its position in the center of a lane. The vehicle will not steer to avoid objects in the road in front of the vehicle or to avoid a vehicle moving into your lane.**
- **It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times. Never take your hands off the steering wheel when driving. Always keep your hands on the steering wheel and drive your vehicle safely.**
- **Always drive carefully and attentively when using the Steering Assist. Read and understand the Owner's Manual thoroughly before using the Steering Assist. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use the Steering Assist except in appropriate road and traffic conditions.**

Steering Assist switch



The Steering Assist switch is used to temporarily turn on and off the Steering Assist system.

You can also use the "Driver Assistance" menu in the vehicle information display to turn on and off the Steering Assist system. (See "How to enable/disable the Steering Assist" (P.5-117).)

The Steering Assist system controls the steering system to help keep your vehicle near the center of the lane when driving. (See "ProPILOT/ProPILOT Assist" (P.5-109).)

Steering Assist operation

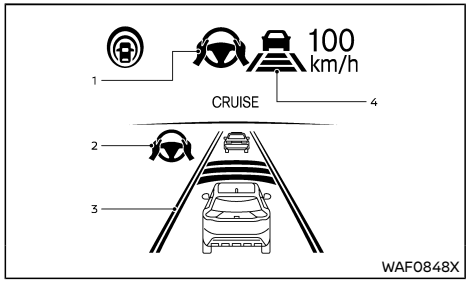
Steering Assist helps the driver keep the vehicle near the center of the lane when both right and left lane markers are detected. Steering Assist only operates when combined with the Intelligent Cruise Control (ICC) system. For additional information, see "Intelligent Cruise Control (ICC)" (P.5-118).

The Steering Assist can be activated when the following conditions are met:

- The ICC system is activated.
- Lane markers on both sides are clearly detected.
- Your vehicle is traveling at speed over 60 km/h (37 MPH), or a vehicle is detected in front of you when traveling under 60 km/h (37 MPH).
- The driver grips the steering wheel.
- The vehicle is driven at the center of the lane.
- The turn signals are not operated.
- The windshield wiper is not operated in the high speed position (the Steering Assist function is disabled after the wiper operates for approximately 10 seconds in the high speed position).

To enable or disable the Steering Assist, see "How to enable/disable the Steering Assist" (P.5-117).

Steering Assist display and indicators



Example

1. **Steering Assist status indicator/warning**

   Displays the status of the Steering Assist by the color of the indicator/warning
   - No Steering Assist status indicator displayed: Steering Assist is turned off
   - Steering Assist status indicator (gray): Steering Assist standby
   - Steering Assist status indicator (green): Steering Assist active
   - Steering Assist status indicator (yellow): Steering Assist malfunction
   - Steering Assist status indicator (red): Hands off detected
2. **Steering Assist indicator**

   Indicates the status of the Steering Assist by the color of the indicator
   - Steering Assist indicator (gray): Steering Assist standby
   - Steering Assist indicator (green): Steering Assist active

3. **Lane marker indicator**

   Indicates whether the system detects the lane marker

   - Lane marker indicator (gray): Lane markers not detected
   - Lane marker indicator (green): Lane markers detected
   - Lane marker indicator (yellow): Lane departure is detected

4. **Lane marker indicator/speed control status indicator/set distance indicator**

   Displays the status of the Steering Assist by the color of the lane marker indicator.

   Lane marker indicator (no lane): Steering Assist is turned off

   - Lane marker indicator (gray): Steering Assist standby
   - Lane marker indicator (green): Steering Assist active

For the speed control status indicator and set distance indicator, see "ProPILOT system display and indicators" (P.5-112).

When the Steering Assist is in operation, the Steering Assist status indicator ①, the Steering Assist indicator ②, and the lane marker indicator ③ and ④ on the vehicle information display turn green.

A chime sounds when the Steering Assist initially activates (if equipped).

When the Steering Assist deactivates, the Steering Assist status indicator ①, the Steering Assist indicator ②, and the lane marker indicator ③ and ④ on the vehicle information display turn gray and a chime sounds twice.

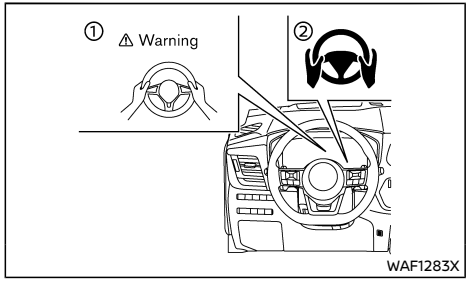
Emergency Lane Assist (ELA) (if equipped)

When a curve or strong cross wind exceeds the capabilities of the Steering Assist and your vehicle approaches either the left or the right side of the traveling lane, the steering wheel vibrates, a chime sounds and the ELA indicator (yellow) on the vehicle information display flashes. Then, the ELA system automatically applies the brakes for a short period of time to help assist the driver to avoid departing the lane and to return the vehicle to the center of the traveling lane. This action is in addition to any Steering Assist actions and the warnings cannot be turned off. For more information, see "Emergency Lane Assist (ELA) system (Type A)" (P.5-58) or "Emergency Lane Assist (ELA) system (Type B)" (P.5-65).

Intelligent Lane Intervention (if equipped)

When a curve or strong cross wind exceeds the capabilities of the Steering Assist and your vehicle approaches either the left or the right side of the traveling lane, the steering wheel vibrates, a chime sounds and the Intelligent Lane Intervention indicator (yellow) on the vehicle information display flashes. Then, the Intelligent Lane Intervention system automatically applies the brakes for a short period of time to help assist the driver to avoid departing the lane and to return the vehicle to the center of the traveling lane. This action is in addition to any Steering Assist actions and the warnings cannot be turned off. For more information, see "Intelligent Lane Intervention" (P.5-53).

Hands on detection



When the Steering Assist is activated, it monitors the driver's steering wheel operation.

If the steering wheel is not operated or the driver takes his/her hands off the steering wheel for a period of time, the warning ① appears in the vehicle information display and the hands OFF warning light ② illuminates.

If the driver does not operate the steering wheel after the warning has been displayed and the warning light illuminated, an audible alert sounds and both the warning and the warning light flash. If the driver still does not operate the steering wheel, the system applies a momentary brake application to request the driver to take control of the vehicle again.

If the driver still does not respond, the system turns on the hazard flasher and slows the vehicle to a complete stop.

The driver can cancel the deceleration at any time by steering, braking, accelerating, or operating the ProPILOT switch.

WARNING:

Steering Assist is not a system for a hands-free driving. Always keep your hands on the steering wheel and drive your vehicle safely. Failure to do so could cause a collision resulting in serious personal injury or death.

NOTE:

The sensors may not detect the driver's hand (s) on the steering wheel in the following situations and a sequence of warnings may occur:

- **Driving with gloves.**
- **Protective covers on the steering wheel.**
- **Gripping the part of the steering wheel without sensors, including leather joints and spokes.**

Steering Assist limitations

WARNING:

- **In the following situations, the camera may not detect lane markers correctly or may detect lane markers incorrectly and the Steering Assist may not operate properly:**
  - **— When driving on roads where there are multiple parallel lane markers, lane markers that are faded or not painted clearly, non-standard lane markers, or lane markers covered with water, dirt, snow, etc.**
  - **— When driving on roads with discontinued lane markers**
  - **— When driving on roads with a widening or narrowing lane width**
  - **— When driving on roads where there are multiple lanes or unclear lane markers due to road construction**
  - **— When driving on roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams, or lines remaining after road repairs (the Steering Assist could detect these items as lane markers)**
  - **— When driving on roads where the traveling lane merges or separates**
- **Do not use the Steering Assist under the following conditions because the system may not properly detect lane markers. Doing so could cause a loss of vehicle control and result in an accident.**
  - **— During bad weather (rain, fog, snow, dust, etc.)**
  - **— When rain, snow, sand, etc., is thrown up by the wheels of other vehicles**
  - **— When dirt, oil, ice, snow, water, or another object adheres to the camera unit**
  - **— When the lens of the camera unit is foggy**
  - **— When strong light (for example, sunlight or high beams from oncoming vehicles) shines on the camera**
  - **— When the headlights are not bright due to dirt on the lens or the headlights are off in tunnels or darkness**
  - **— When a sudden change in brightness occurs (for example, when the vehicle enters or exits a tunnel or is under a bridge)**
  - **— When driving on roads where the traveling lane merges or separates or where there are temporary lane markers because of road construction**
  - **— When there is a lane closure due to road repairs**
  - **— When driving on a bumpy road surface, such as an uneven dirt road**
  - **— When driving on sharp curves or winding roads**
  - **— When driving on repeated uphill and downhill roads**
- **Do not use the Steering Assist under the following conditions because the system will not operate properly:**
  - **— When driving with a tire that is not within normal tire conditions (for example, tire wear, abnormal tire pressure, installation of a spare tire, tire chains, non-standard wheels)**
  - **— When the vehicle is equipped with non-original brake or suspension parts**
  - **— When an object such as a sticker or cargo obstructs the camera**
  - **— When excessively heavy baggage is loaded in the rear seat or luggage area of your vehicle**
  - **— When the vehicle load capacity is exceeded**
  - **— When towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe)**
- **Excessive noise will interfere with the warning chime sound, and the beep may not be heard.**
- **For the ProPILOT system to operate properly, the windshield in front of the camera must be clean. Replace worn**

wiper blades. The correct size wiper blades must be used to help make sure the windshield is kept clean. Only use Genuine NISSAN wiper blades, or equivalent wiper blades, that are specifically designed for use on your vehicle model and model year. It is recommended that you visit your NISSAN dealer for the correct parts for your vehicle.

Steering Assist temporary standby

Automatic standby due to driving operation:

When the driver activates the turn signal, the Steering Assist is temporarily placed in a standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

Automatic standby:

In the following cases, a double chime sounds and the Steering Assist is placed in a temporary standby mode. (The Steering Assist restarts automatically when the operating conditions are met again.)

- When the current traveling lane is too narrow to operate
- When a corner is too tight and the vehicle cannot stay in the traveling lane
- When lane markers on both sides are no longer detected
- When a vehicle ahead is no longer detected under approximately 60 km/h (37 MPH)
- When strong light enters the camera unit (For example, the light directly shines on the front of the vehicle at sunrise or sunset)
- When the temperature of the camera is too high

NOTE:

For vehicles equipped with ProPILOT with Navi-link on a limited access freeway as identified in the navigation map data, the Steering Assist may continue to operate with visible lane markers on both sides even when the vehicle speed is below approximately 60 km/h (37 MPH) and a vehicle is not detected ahead.

Steering Assist cancel

Under the following conditions, the Steering Assist cancels, the chime sounds twice, the warning message appears, and the Steering Assist status indicator and the Steering Assist indicator turn off:

- When unusual lane markers appear in the traveling lane or when the lane marker cannot be correctly detected for some time due to certain conditions (for example, a snow rut, the reflection of light on a rainy day, the presence of several unclear lane markers)
- When the windshield wiper operates in the high speed operation (the Steering Assist is disabled when the wiper operates for more than approximately 10 seconds)

Action to take:

When the conditions listed above are no longer present, turn Steering Assist on again using the Steering Assist switch.

Steering Assist malfunction

When the system malfunctions, it turns off automatically. The Steering Assist status warning (yellow) illuminates and the "System fault See Owner's Manual" warning message will appear in the vehicle information display. A chime may sound depending on the situation.

Action to take:

Stop the vehicle in a safe location, push the park button to shift to the "P" (Park) position, turn the engine off, restart the engine, resume driving, and set the ICC system again. If the warning (yellow) continues to illuminate, the Steering Assist is malfunctioning. Although the vehicle is still drivable under normal conditions, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Steering Assist maintenance

The camera is located above the inside rear-view mirror.

To keep the proper operation of the system and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's capability of detecting the lane markers.
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit.

If the camera unit is damaged due to an accident, it is recommended that you visit a

NISSAN dealer.

For additional information, see “Common troubleshooting guide” (P.5-35).

CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

NOTE:

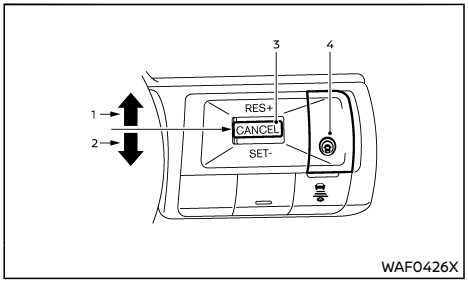
ProPILOT provides no approach warnings, automatic braking, or Steering Assist in the conventional (fixed speed) cruise control mode.

This mode allows driving at a speed above approximately 30 km/h (20 MPH) without keeping your foot on the accelerator pedal.

WARNING:

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - **— When it is not possible to keep the vehicle at a set speed**
  - **— In heavy traffic or in traffic that varies in speed**
  - **— On winding or hilly roads**
  - **— On slippery roads (rain, snow, ice, etc.)**
  - **— In very windy areas**
- **Doing so could cause a loss of vehicle control and result in an accident.**

Conventional (fixed speed) cruise control switches



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1. RES+ operation:

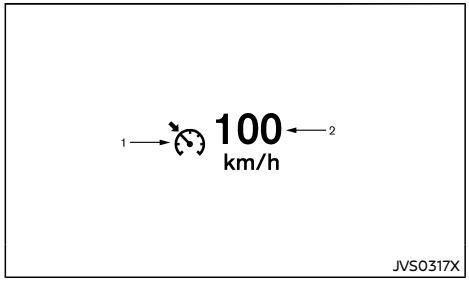
   Resumes vehicle set speed or increases speed incrementally
2. SET- operation:

   Sets desired cruise speed or reduces speed incrementally
3. CANCEL switch:

   Deactivates the system without erasing the vehicle set speed
4. ProPILOT switch:

   Turns the system on or off

Conventional (fixed speed) cruise control mode display and indicators



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The display is located in the vehicle information display.

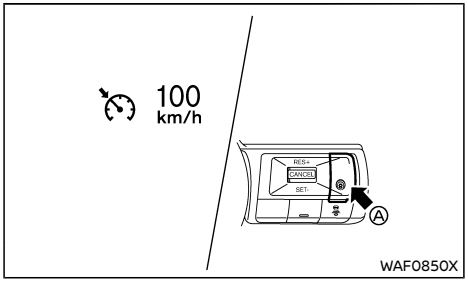
1. Cruise indicator:

   This indicator indicates the condition of the ICC system depending on a color.
   - Cruise control ON indicator (gray): Indicates that the ProPILOT switch is on
   - Cruise control SET indicator (green): Indicates that the cruising speed is set
   - Cruise control warning (yellow): Indicates that there is a malfunction in the ICC system
2. Vehicle set speed indicator:

   This indicator indicates the vehicle set speed.
   - Green: Cruise control active
   - Gray: Cruise control standby

   (The speed unit can be converted between “km/h” and “MPH” (if equipped). See “Unit/Language” (P.2-28).)

Operating conventional (fixed speed) cruise control mode



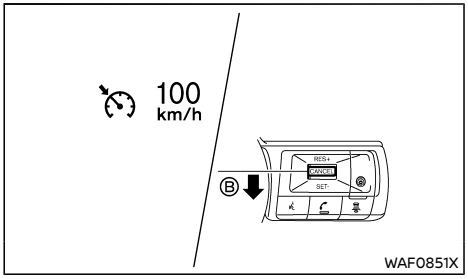
To turn on the conventional (fixed speed) cruise control mode, push and hold the ProPILOT switch Ⓐ for longer than about 1.5 seconds.

When pushing the ProPILOT switch on, the ICC system display and indicators are displayed in the vehicle information display. After you hold the ProPILOT switch on for longer than about 1.5 seconds, the ICC system display turns off. The cruise indicator appears. You can now set your desired cruising speed. Pushing the ProPILOT switch again will turn the system completely off. When the ignition switch is placed in the "OFF" position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the ProPILOT switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

WARNING:

To avoid accidentally engaging cruise control, make sure to turn the ProPILOT switch off when not using the ICC system.



Example

To set cruising speed, accelerate your vehicle to the desired speed, push down the CANCEL switch to SET- Ⓑ and release it. (The color of the cruise indicator changes to green and vehicle set speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset vehicle speed, use any of the following methods:

- Push the CANCEL switch. The vehicle set speed indicator and the cruise indicator will turn gray.
- Tap the brake pedal. The vehicle set speed indicator and the cruise indicator will turn gray.
- Turn the ProPILOT switch off. Both the cruise indicator and vehicle set speed indicator will turn off.

To reset at a faster cruising speed, use one of the following three methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push up and hold the CANCEL switch to RES+. When the vehicle attains the desired speed, release the switch.
- Push up the CANCEL switch to RES+ and then quickly release it. Each time you do this, the vehicle set speed will increase by about 1 km/h (1 MPH).

To reset at a slower cruising speed, use one of the following three methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push down the CANCEL switch to SET- and release it.
- Push down and hold the CANCEL switch to SET-. Release the switch when the vehicle slows down to the desired speed.
- Push down the CANCEL switch to SET-, then quickly release it. Each time you do this, the vehicle set speed will decrease by about 1 km/h (1 MPH).

To resume the preset vehicle speed, push up the CANCEL switch to RES+ and release it. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH).

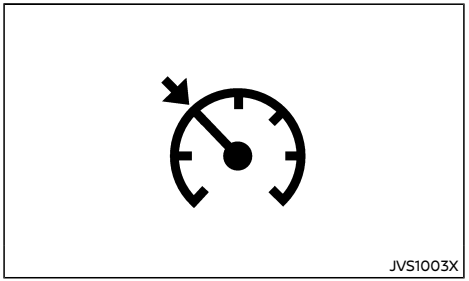
System temporarily unavailable

A chime sounds under the following conditions and the control is automatically canceled.

- When the shift lever is not in the "D" (Drive) position
- When the parking brake is applied
- When the VDC/ESP system (including the traction control system) operates

- When the VDC/ESP system is turned off
- When a wheel slips

Warning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When the system is not operating properly, the chime sounds and the color of the cruise indicator will change to yellow.

Action to take:

If the color of the cruise indicator changes to yellow (cruise control warning), park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. It is recommended you visit a NISSAN dealer for this service.

INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM (if equipped)

Intelligent Emergency Braking with Pedestrian Detection system: system applied to Europe, Australia, Mexico, New Zealand, Palestine, Ukraine, South Africa and the Middle East

Intelligent Emergency Braking system: system applied to all market except Europe, Australia, Mexico, New Zealand, Palestine, Ukraine, South Africa and the Middle East

Additionally, there are some differences in the system functions/behaviors depending on the model.

- Type A is for models with the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.
- Type B is for models without the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.

WARNING:

Failure to follow the warnings and instructions for proper use of the Intelligent Emergency Braking with Pedestrian Detection system could result in serious injury or death.

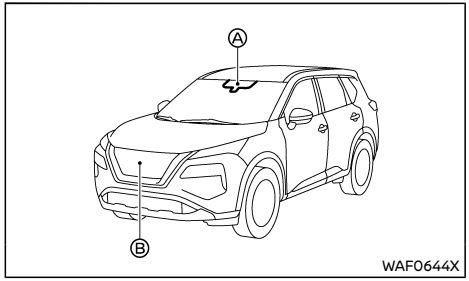
- **The Intelligent Emergency Braking with Pedestrian Detection system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.**
- **The Intelligent Emergency Braking with Pedestrian Detection system does not function in all driving, traffic, weather and road conditions.**

The Intelligent Emergency Braking with Pedestrian Detection system can assist the driver when there is a risk of a forward collision with:

- a vehicle ahead in the traveling lane
- a pedestrian ahead in the traveling lane (if equipped)
- a cyclist ahead in the traveling lane (if equipped)

Junction assist (if equipped) can assist the driver when there is a risk of a forward collision:

- When you turn right or left and cross the path of an oncoming vehicle.
- When you turn right or left, a pedestrian is detected in the forward direction and is expected to enter your vehicle's path.



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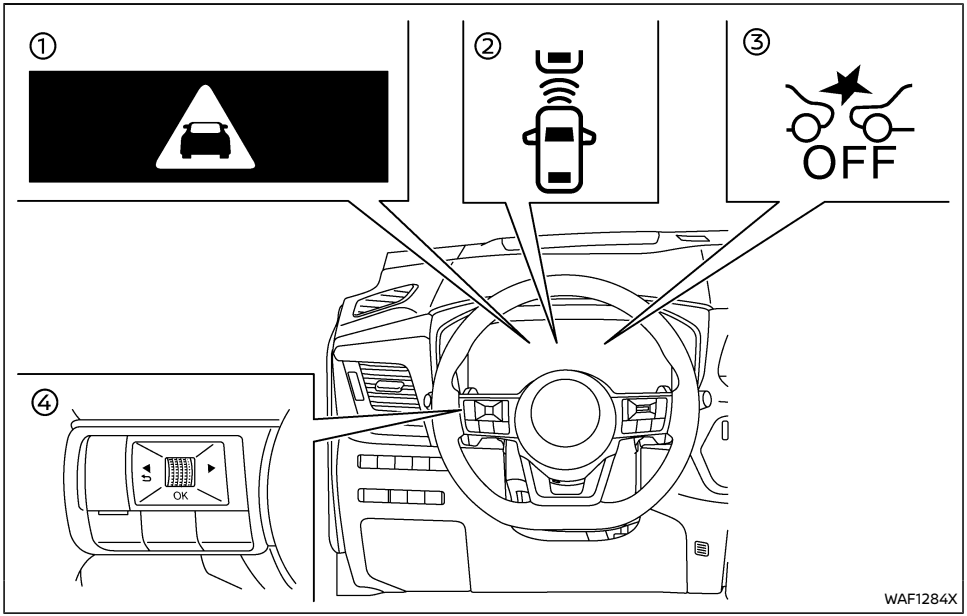
The Intelligent Emergency Braking with Pedestrian Detection system uses a radar sensor Ⓑ located on the front of the vehicle to measure the distance to the vehicle ahead in the same lane.

For pedestrians and cyclists (if equipped), the Intelligent Emergency Braking system uses a camera Ⓐ installed behind the windshield in addition to the radar sensor.



① Intelligent Emergency Braking emergency warning indicator

② Vehicle ahead detection indicator (on the vehicle information display)

③ Intelligent Emergency Braking system OFF warning light (on the meter panel)

④ Steering-wheel-mounted controls (left side)

INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM OPERATION

The Intelligent Emergency Braking with Pedestrian Detection system will function when your vehicle is driven at speeds above approximately 5 km/h (3 MPH).

For the pedestrian and cyclists detection function (if equipped), the Intelligent Emergency Braking with Pedestrian Detection system operates at the following speed range:

- 10 to 60 km/h (6 to 37 MPH) (except for Europe, Australia, New Zealand, Ukraine and Palestine)
- 10 to 80 km/h (6 to 50 MPH) (for Europe, Australia, New Zealand, Ukraine and Palestine)

If a risk of a forward collision is detected, the Intelligent Emergency Braking with Pedestrian Detection system will firstly provide the warning to the driver by flashing the vehicle ahead detection indicator (yellow) in the vehicle information display and providing an audible alert. In addition, the system applies partial braking.

If the driver applies the brakes quickly and forcefully after the warning, and the Intelligent Emergency Braking with Pedestrian Detection system detects that there is still the possibility of a forward collision, the system will automatically increase the braking force.

If the driver does not take action, the Intelligent Emergency Braking with Pedestrian Detection system issues the second visual (flashing) (red) and audible warning. Then the system applies partial braking.

If the risk of a collision becomes imminent, the Intelligent Emergency Braking with Pedestrian Detection system applies harder braking automatically.

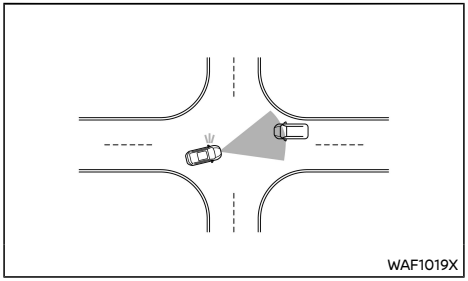
While the Intelligent Emergency Braking with Pedestrian Detection system is operating, you may hear the sound of brake operation. This is normal and indicates that the Intelligent Emergency Braking with Pedestrian Detection system is operating properly.

NOTE:

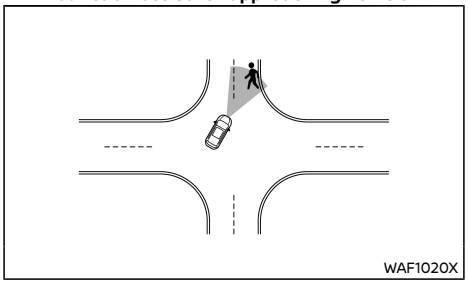
The vehicle's stop lights come on when braking is performed by the Intelligent Emergency Braking with Pedestrian Detection system.

Junction assist (if equipped) can operate at vehicle speeds between 10 - 25 km/h (6 –16 MPH).

The turn signal must be activated for junction assist to detect an approaching vehicle. However, junction assist may detect a pedestrian without the turn signal activated.



Junction assist for approaching vehicle



Junction assist for pedestrian

NOTE:

- **The vehicle's stop lights come on when braking is performed by the junction assist.**
- **When the Intelligent Emergency Braking with Pedestrian Detection system detects an obstacle in the path of the vehicle and displays the Intelligent Emergency Braking warning, a noise may be heard from the front of the vehicle as the vehicle primes the brakes to improve response time.**

Depending on vehicle speed and distance to the vehicle, pedestrian or cyclist (if equipped) ahead, as well as driving and roadway conditions, the system may help the driver avoid a forward collision or may help mitigate the consequences of a collision should one be unavoidable.

If the driver is handling the steering wheel, accelerating or braking, the Intelligent Emergency Braking with Pedestrian Detection system will function later or will not function.

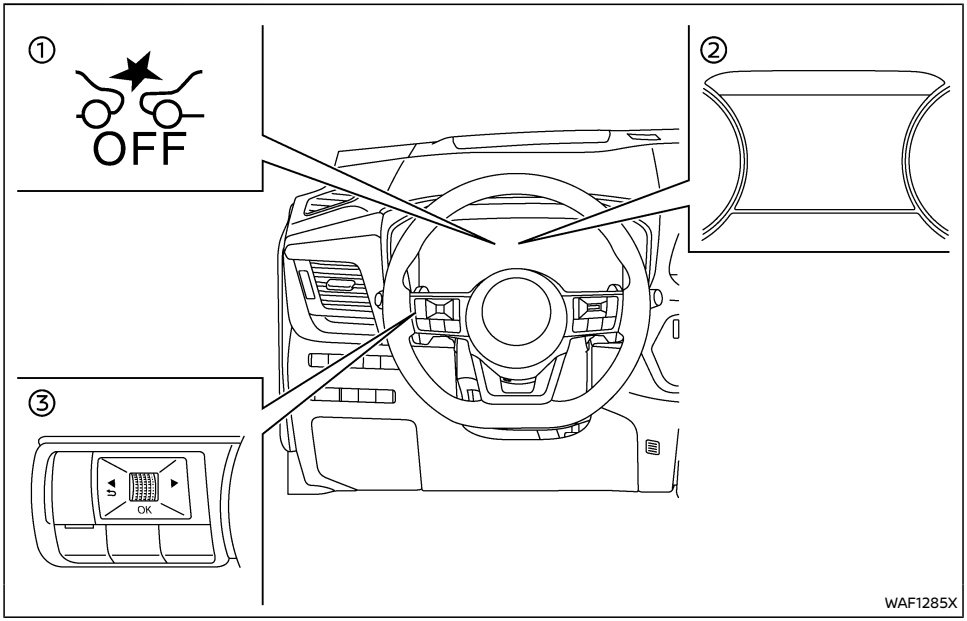
The automatic braking will cease under the following conditions:

- When the steering wheel is turned as far as necessary to avoid a collision.
- When the accelerator pedal is depressed.
- When there is no longer a vehicle, pedestrian or cyclist (if equipped) detected ahead.

If the Intelligent Emergency Braking with Pedestrian Detection system has stopped the vehicle, the vehicle will remain at a standstill for approximately 2 seconds before the brakes are released.

When the brake pedal is depressed while the brake is applied by the system, you may feel the pedal effort is changed and may hear a sound and vibration noise. This is normal and does not indicate a malfunction. In addition, the braking force can be increased by adding the pedal effort.

TURNING THE INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM ON/OFF



① Intelligent Emergency Braking system OFF warning light (on the meter panel)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

Perform the following steps to turn the Intelligent Emergency Braking with Pedestrian Detection system on or off.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Type A:

   Select "Emergency Brake" and push the scroll dial. Then select "Front" and push the scroll dial to turn the system on or off.

   Type B:

   Select "Emergency Brake" and push the scroll dial to turn the system on or off.

When the Intelligent Emergency Braking with Pedestrian Detection system is turned off, the Intelligent Emergency Braking system OFF warning light illuminates.

NOTE:

- **Disabling the Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system causes the Intelligent Emergency Braking with Pedestrian Detection system to become unavailable regardless of settings selected in the vehicle information display.**
- **The Intelligent Emergency Braking with Pedestrian Detection system will be automatically turned ON when the engine is restarted.**
- **The Intelligent Emergency Braking with Pedestrian Detection system cannot be turned on or off while driving (Type A).**
- **The Intelligent Forward Collision Warning system is integrated into the Intelligent Emergency Braking with Pedestrian Detection system. There is not a separate selection for the Intelligent Forward Collision Warning system. When the Intelligent Emergency Braking with Pedestrian Detection system is turned off, the Intelligent Forward Collision Warning system is also turned off.**

INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the Intelligent Emergency Braking with Pedestrian Detection system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The Intelligent Emergency Braking with Pedestrian Detection system cannot detect all vehicles, pedestrians or cyclists (if equipped) under all conditions.**
- **The Intelligent Emergency Braking with Pedestrian Detection system does not detect the following:**
  - **— Pedestrians that are small (for example, children), in a sitting position, operating toys/skateboards, on scooters or in wheelchairs, or not in an upright standing or walking position.**
  - **— Animals of any size.**
  - **— Obstacles (for example, cargo or debris) on the roadway or roadside.**
  - **— Crossing vehicles.**
  - **— Vehicles where the tires are difficult to see or the shape of the rear of the vehicle is unclear or obstructed.**
  - **— Parked vehicles.**
- **The Intelligent Emergency Braking with Pedestrian Detection system has some performance limitations.**
  - **— If a stationary vehicle is in the vehicle's path, the system will not function when the vehicle approaches the stationary vehicle at the following speeds:**

    Approximately 100 km/h (62 MPH) and above (for Europe, Australia, New Zealand, Palestine, Ukraine, and Egypt)

    Approximately 80 km/h (50 MPH) and above (except for Europe, Australia, New Zealand, Palestine, Ukraine, and Egypt)
  - **— Pedestrian and cyclist (if equipped) detection will not function when the vehicle is driven at the following speeds:**

    Over approximately 80 km/h (50 MPH) or below approximately 10 km/h (6 MPH) (for Europe, Australia, New Zealand, Ukraine and Palestine)

    Over approximately 60 km/h (37MPH) or below approximately 10 km/h (6 MPH) (except for Europe, Australia, New Zealand, Ukraine and Palestine)
- **For pedestrians, the Intelligent Emergency Braking with Pedestrian Detection system will not issue the first warning.**
- **The Intelligent Emergency Braking with Pedestrian Detection system may not function properly or detect a vehicle, pedestrian or cyclist (if equipped) ahead in the following conditions:**
  - **— In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke, and road spray from other vehicles).**
  - **— If dirt, ice, snow, fog or other material is covering the radar sensor area or camera area of the windshield.**
  - **— If strong light (for example, sunlight or high beams) enters the front camera or a sudden change in brightness occurs (for example, entering a tunnel or driving in lightning).**
  - **— In dark or dimly lit conditions, such as at night or in tunnels, including cases where your vehicle's headlights are off or dim, or the tail lights of the vehicle ahead are off.**
  - **— When the direction of the camera is misaligned.**
  - **— When driving on a steep downhill slope, on roads with sharp curves, and/or bumpy or dirt roads.**
  - **— If there is interference by other radar sources.**
  - **— When your vehicle's position or movement is changed quickly or significantly (for example, lane change, turning vehicle, abrupt steering, sudden acceleration or deceleration).**
  - **— When your vehicle or the vehicle, pedestrian or cyclist (if equipped) ahead moves quickly or significantly such that the system cannot detect and react in time (for example, pedestrian moving quickly toward the vehicle at close range, vehicle cutting in, changing lanes, making a turn, steering abruptly, sudden acceleration or deceleration).**
  - **— When the vehicle, pedestrian or cyclist (if equipped) is offset from the vehicle's forward path.**

— If the speed difference between the two vehicles is small.

— The pedestrian's profile is partially obscured or unidentifiable; for example, due to transporting luggage, pushing a stroller, wearing bulky or very loose-fitting clothing or accessories, or being in a unique posture (such as raising hands).

— There is poor contrast of a person to the background, such as having clothing color or pattern which is similar to the background.

— For approximately 15 seconds after starting the engine.

— When the system has never detected an obstacle since the vehicle was driven after the engine was started (Type A).

— If the vehicle ahead has a unique or unusual shape, extremely low or high clearance heights, or unusual cargo loading or is narrow (for example, a motorcycle).

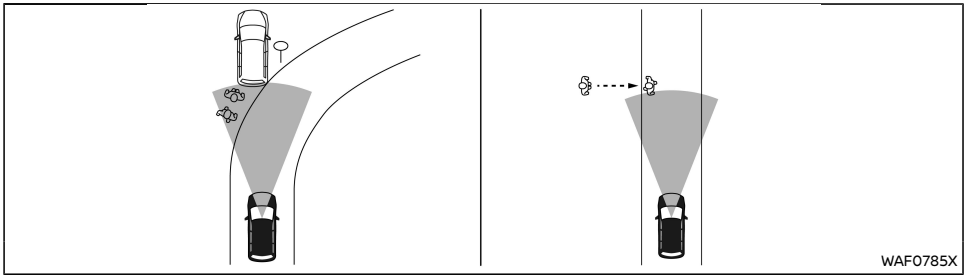
— When the vehicle, pedestrian or cyclist (if equipped) is located near a traffic sign, a reflective area (for example, water on road), or is in a shadow.

— When multiple pedestrians or cyclists (if equipped) are grouped together.

— When the view of the pedestrian or cyclist (if equipped) is obscured by a vehicle or other object.

— While towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe).

- The system performance may be degraded in the following conditions:
  — The vehicle is driven on a slippery road.
  — The vehicle is driven on a slope.
  — Excessively heavy baggage is loaded in the rear seat or the cargo area of your vehicle.
  — When the Stop/Start or Idling Stop system (if equipped) is active.
- The system is designed to automatically check the sensor's (radar and camera) functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow or stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear sensor areas regularly.
- In some road and traffic conditions, the Intelligent Emergency Braking with Pedestrian Detection system may unexpectedly apply partial braking. When acceleration is necessary, depress the accelerator pedal to override the system.
- The Intelligent Emergency Braking with Pedestrian Detection system may operate when a pattern, object, shadow or lights are detected that are similar to the outline of vehicles, pedestrians or cyclists (if equipped), or if they are the same size and position as a vehicle or motorcycle's tail lights.
- The system may keep operating when the vehicle ahead is turning right or left.
- The system may operate when your vehicle is approaching and passing a vehicle ahead.
- Depending on the road shape (curved road, entrance and exit of the curve, winding road, lane regulation, under construction, etc.), the system may operate temporarily for the approaching vehicle in front of your vehicle.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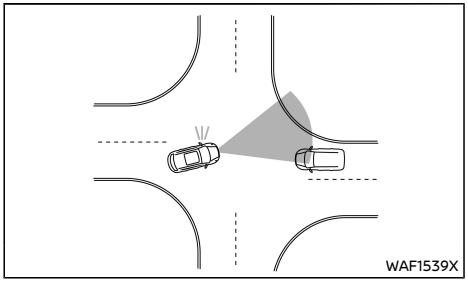
WARNING:

- **The Intelligent Emergency Braking with Pedestrian Detection system may react to:**
  - **— objects on the roadside (traffic sign, guardrail, pedestrian, cyclist (if equipped), motorcycle, vehicle, etc.)**
  - **— pedestrians or cyclists (if equipped) when driving on the narrow alleys, etc.**
  - **— pedestrians or cyclists (if equipped) who temporarily protrude into or approaching the driving lane to avoid the obstacles on the road shoulder**
  - **— objects above road (low bridge, traffic sign, etc.)**
  - **— objects on the road surface (railroad track, grate, steel plate, etc.)**
  - **— objects in the parking garage (beam, pillar, etc.)**
  - **— pedestrians, cyclists (if equipped) or motorcycles approaching the traveling lane**
  - **— vehicles, pedestrians, cyclists (if equipped), motorcycles or objects in adjacent lanes or close to the vehicle**
  - **— approaching pedestrians, cyclists (if equipped)**
  - **— objects on the road (such as trees)**
- **Braking distances increase on slippery surfaces.**
- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**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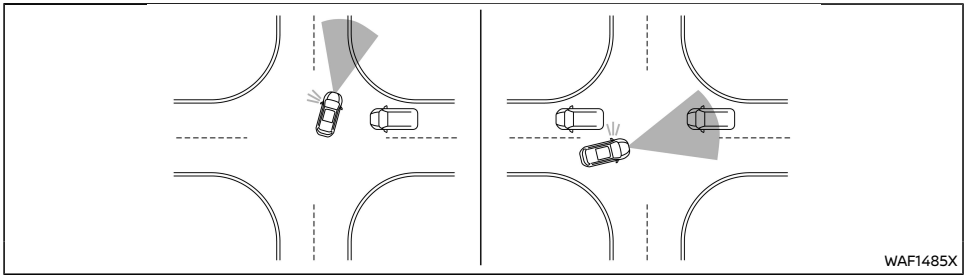
WARNING:

- **Junction assist (if equipped) does not apply braking to approaching vehicles in front of your vehicle.**

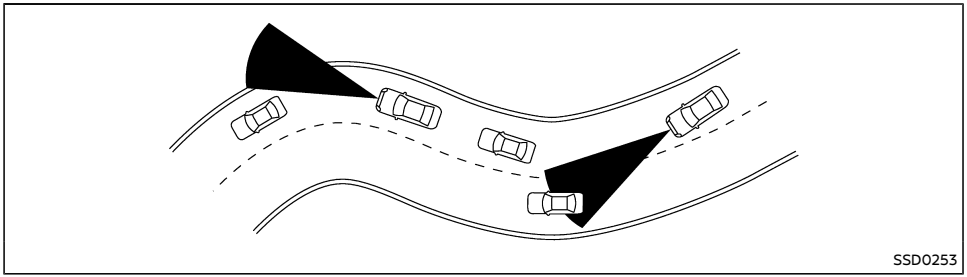


(In the junction) After turning left/Approaching vehicles in a row

WARNING:

In addition to the system limitations that apply to the Intelligent Emergency Braking with Pedestrian Detection system, the following system limitations apply to the Intelligent Emergency Braking with Pedestrian Detection while junction assist (if equipped) is operating:

- **Junction assist may not detect an approaching vehicle or pedestrian in the following conditions:**
  - **— When driving in a traffic lane separated by more than 2 lanes from approaching vehicles while making a right/left turn.**
  - **— When not heading directly towards an approaching vehicle during a right/left turn.**
  - **— Junction assist may not detect an approaching vehicle after you have already started your turn.**
  - **— When turning sharply or on a very wide curve.**
  - **— When the center line is not recognized by the system.**
  - **— When there are a number of approaching vehicles following each other in a row.**
  - **— When the lane is wider or narrower than normal.**
  - **— When the center line is located close to a road marker.**
- **Junction assist may apply braking while making a right/left turn even if the risk of a collision is low.**
- **Junction assist may also apply braking when approaching vehicle movement cannot be predicted due to sudden left/right turns or deceleration of the approaching vehicles.**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When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction or on a slope, the sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. If this occurs, the system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.

SYSTEM TEMPORARILY UNAVAILABLE (Type A)

Condition A

In the following conditions, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Temporarily Disabled Camera Blocked See Owner's Manual" warning message will appear in the vehicle information display. And the system will be turned off automatically.

- The camera area of the windshield is covered with moisture, snow, ice, dirt or some other object.
- The camera area of the windshield is continuously covered with dirt, etc.

Action to take:

Check that the windshield is clean and free from ice/mist in front of the camera. If necessary, operate the Max defogging/defrosting function or heated windshield (if equipped) to clear. This may take several minutes.

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition B

In the following conditions, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Currently Unavailable Poor Visibility" warning message will appear in the vehicle information display.

- Strong light is shining onto the front of the vehicle.
- The camera area of the windshield is fogged up or covered with dirt, water, drops, ice, snow, etc. temporarily.

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition C

In the following condition, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Currently Unavailable Front Camera High Temperature" warning message will appear in the vehicle information display.

- The cabin temperature is over approximately 40 °C (104 °F) in direct sunlight.

Action to take:

When the interior temperature is reduced, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition D

In the following conditions, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Currently Unavailable" warning message will appear in the vehicle information display.

- When the system check for the warning function did not end normally.
- When the vehicle is towed.

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition E

In the following condition, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Currently Unavailable Radar Inhibited" warning message will appear in the vehicle information display.

- When the radar sensor picks up interference from another radar source.

Action to take:

When the above condition no longer exists, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition F

In the following condition, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Temporarily Disabled Front Radar Blocked See Owner's Manual" warning message will appear in the vehicle information display.

- The sensor area of the front of the vehicle is covered with dirt or is obstructed.

Action to take:

If the warning light illuminates, pull off the road to a safe location and stop the vehicle. Turn the engine off. Clean the radar cover on the front of the vehicle with a soft cloth, and restart the engine. If the warning light continues to illuminate, have the Intelligent Emergency Braking with Pedestrian Detection system checked. It is recommended you visit a NISSAN dealer for this service.

Condition G

In the following condition, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Temporarily Disabled Front Radar Blocked See Owner's Manual" warning message will appear in the vehicle information display.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).

Action to take:

When the above condition no longer exists, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition H

When the Electronic Stability Program (ESP) system is turned OFF, the Intelligent Emergency Braking system braking will not operate and the "Currently Unavailable ESP OFF" warning message will appear in the vehicle information display.

Action to take:

When the ESP system is ON, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

SYSTEM TEMPORARILY UNAVAILABLE (Type B)

Condition A

In the following conditions, the Intelligent Emergency Braking system OFF warning light blinks and the system will be turned off automatically.

- The camera area of the windshield is misted or frozen.
- The camera area of the windshield is continuously covered with dirt, etc.

Action to take:

Check that the windshield is clean and free from ice/mist in front of the camera. If necessary, operate the Max defogging/defrosting function or heated windshield (if equipped) to clear. This may take several minutes.

When the above condition no longer exists, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition B

In the following conditions, the Intelligent Emergency Braking system OFF warning light will blink, with no accompanying message in the vehicle information display.

- Strong light is shining onto the front of the vehicle.
- The cabin temperature is over approximately 40 °C (104 °F) in direct sunlight.
- The radar sensor can receive interference from other radar sources and excessive reflection from other vehicles (for example, when traveling past vehicles in a traffic jam).
- The camera unit detects that it is not correctly aligned.

Action to take:

None. When the above condition no longer exists, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

NOTE:

If the inside of the windshield in front of the camera is misted or frozen, it will take a period of time to for it to clear after the air conditioner turns on. If dirt appears in this area, it is recommended you visit a NISSAN dealer.

Condition C

In the following condition, the Intelligent Emergency Braking system OFF warning light will flash and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

- The sensor area on the front of the vehicle is covered with dirt or is obstructed

Action to take:

If the warning light illuminates, stop the vehicle in a safe place and turn the engine off. Check if the sensor area at the front of the vehicle, and remove the blocking material. Restart the engine. If the warning light continues to illuminate after driving for a few minutes, have the Intelligent Emergency Braking with Pedestrian Detection system checked. It is recommended you visit a NISSAN dealer for this service.

Condition D

In the following condition, the Intelligent Emergency Braking system OFF warning light will illuminate and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition E

When the Vehicle Dynamic Control (VDC)/ Electronic Stability Program (ESP) system is turned OFF, the Intelligent Emergency Braking system braking will not operate. In this case only the visible and audible warning operates. The Intelligent Emergency Braking system OFF warning light will illuminate.

Action to take

When the VDC/ESP system is ON, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

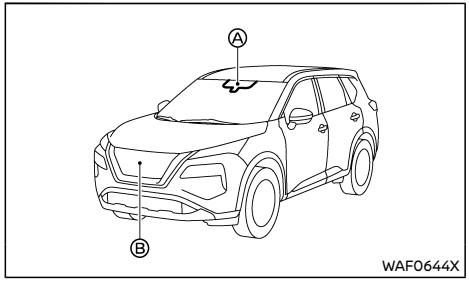
SYSTEM MALFUNCTION

If the Intelligent Emergency Braking with Pedestrian Detection system malfunctions, it will be turned off automatically, a chime will sound, the Intelligent Emergency Braking system OFF warning light (yellow) will illuminate and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning light (yellow) comes on, stop the vehicle in a safe location. Turn the engine off and restart the engine. If the warning light continues to illuminate, have the Intelligent Emergency Braking with Pedestrian Detection system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The radar sensor Ⓑ is located on the front of the vehicle. The camera Ⓐ is located on the upper side of the windshield.

To keep the Intelligent Emergency Braking with Pedestrian Detection system operating properly, be sure to observe the following:

- Always keep the sensor area on the front of the vehicle and windshield clean.
- Do not strike or damage the areas around the sensors (ex. bumper, windshield).
- Do not cover or attach stickers or similar objects on the front of the vehicle near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the radar sensor area (brush guard, etc.). This could cause failure or malfunction.

- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit's detection capability.
- Do not alter, remove or paint the front of the vehicle near the sensor area. Before customizing or restoring the sensor area, it is recommended that you visit a NISSAN dealer.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

APPLICATION

There are some differences in the system functions/behaviors depending on the model.

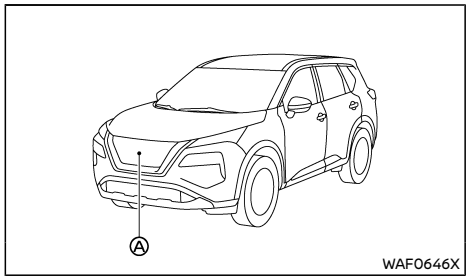
- Type A is for models with the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.
- Type B is for models without the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.

WARNING:

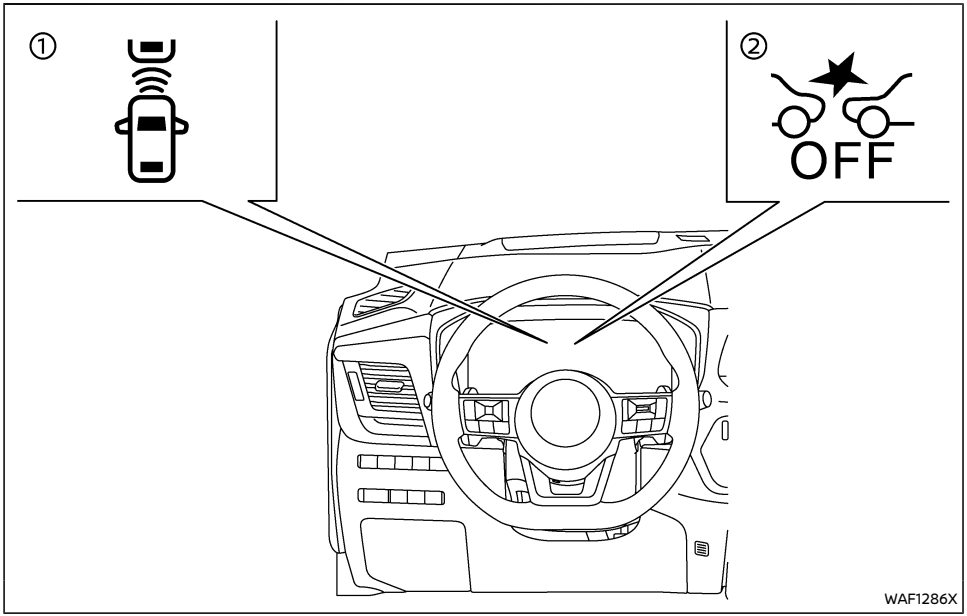
Failure to follow the warnings and instructions for proper use of the Intelligent Forward Collision Warning system could result in serious injury or death.

- **The Intelligent Forward Collision Warning system helps warn the driver before a collision but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.**

The Intelligent Forward Collision Warning system can help alert the driver when there is a sudden braking of a second vehicle traveling in front of the vehicle ahead in the same lane.

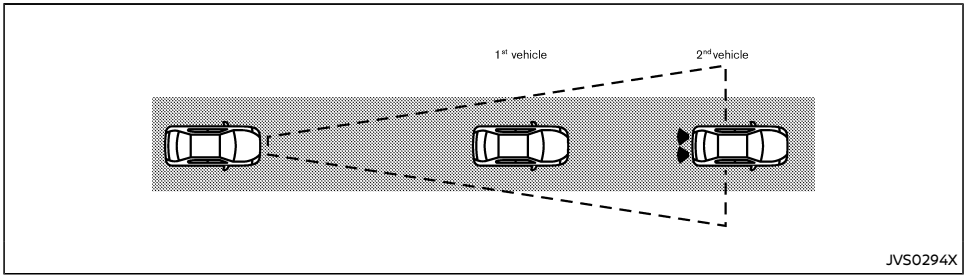


The Intelligent Forward Collision Warning system uses a radar sensor Ⓐ located on the front of the vehicle to measure the distance to a second vehicle ahead in the same lane.



① Vehicle ahead detection indicator (on the vehicle information display)

② Intelligent Emergency Braking system OFF warning light (on the meter panel)

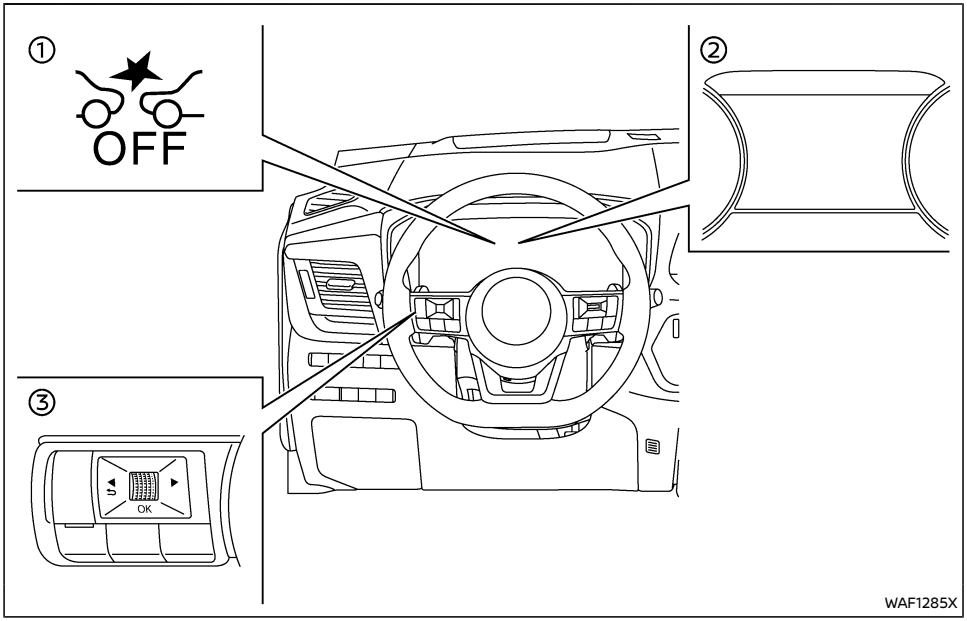


INTELLIGENT FORWARD COLLISION WARNING SYSTEM OPERATION

The Intelligent Forward Collision Warning system operates at speeds above approximately 5 km/h (3 MPH).

If there is a potential risk of a forward collision, the Intelligent Forward Collision Warning system will warn the driver by blinking the vehicle ahead detection indicator, and sounding an audible alert.

TURNING THE INTELLIGENT FORWARD COLLISION WARNING SYSTEM ON/OFF



① Intelligent Emergency Braking system OFF warning light (on the meter panel)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

Perform the following steps to turn the Intelligent Forward Collision Warning system on or off.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Type A:

   Select "Emergency Brake" and push the scroll dial. Then select "Front" and push the scroll dial to turn the system on or off.

   Type B:

   Select "Emergency Brake" and push the scroll dial to turn the system on or off.

When the Intelligent Forward Collision Warning system is turned off, the Intelligent Emergency Braking system OFF warning light (yellow) illuminates.

NOTE:

- **The Intelligent Forward Collision Warning system will be automatically turned on when the engine is restarted.**
- **The Intelligent Forward Collision Warning system is integrated into the Intelligent Emergency Braking with Pedestrian Detection system. There is not a separate selection for the Intelligent Forward Collision Warning system. When the Intelligent Emergency Braking with Pedestrian Detection system is turned off, the Intelligent Forward Collision Warning system is also turned off.**
- **The Intelligent Forward Collision Warning system cannot be turned on or off while driving (Type A).**

INTELLIGENT FORWARD COLLISION WARNING SYSTEM LIMITATIONS

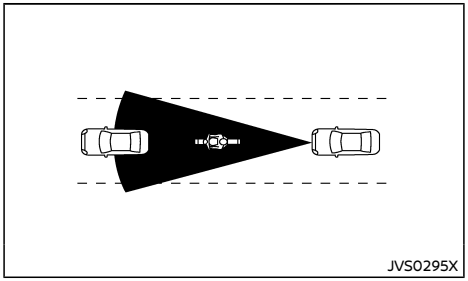


Illustration A

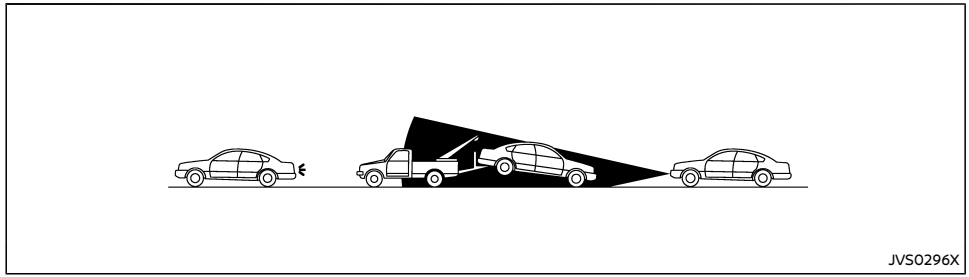


Illustration B

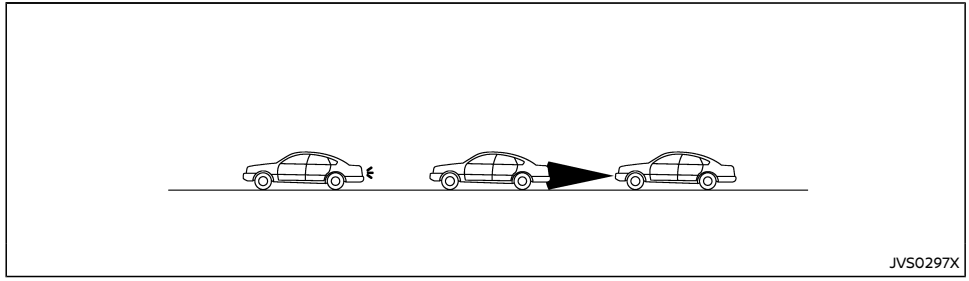


Illustration C

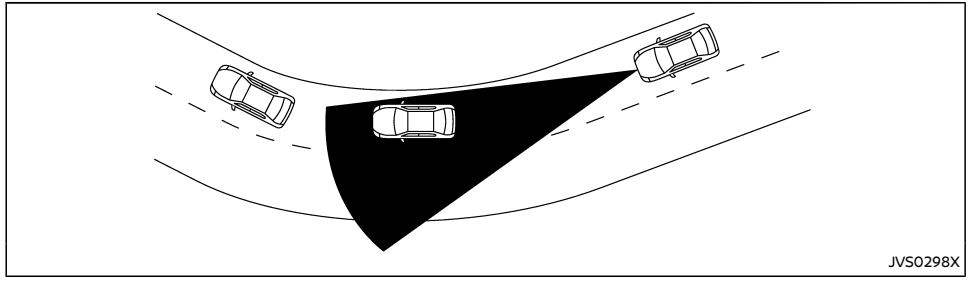
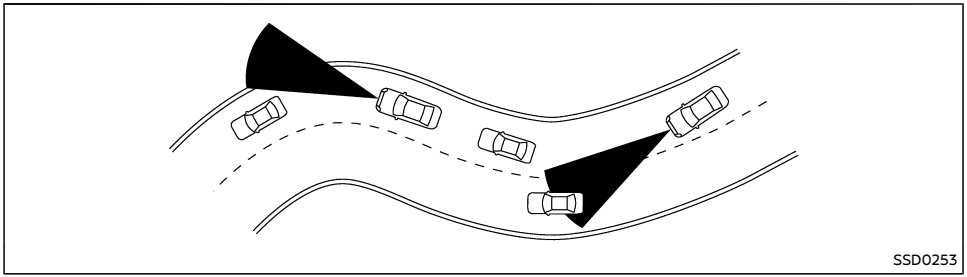


Illustration D

WARNING:

Listed below are the system limitations for the Intelligent Forward Collision Warning system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The Intelligent Forward Collision Warning system cannot detect all vehicles under all conditions.**
- **The radar sensor does not detect the following objects:**
  - **— Pedestrians, animals or obstacles in the roadway**
  - **— Oncoming vehicles**
  - **— Crossing vehicles**
- **(Illustration A) The Intelligent Forward Collision Warning system does not function when a vehicle ahead is a narrow vehicle, such as a motorcycle.**
- **The radar sensor may not detect a vehicle ahead in the following conditions:**
  - **— Snow or heavy rain**
  - **— Dirt, ice, snow or other material covering the radar sensor**
  - **— Interference by other radar sources**
  - **— Snow or road spray from traveling vehicles.**
  - **— Driving in a tunnel**
  - **— Towing a trailer (for Australia, New Zealand, South Africa and Europe)**
- **(Illustration B) When the vehicle ahead is being towed.**
- **(Illustration C) When the distance to the vehicle ahead is too close, the beam of the radar sensor is obstructed.**
- **(Illustration D) When driving on a steep downhill slope or roads with sharp curves.**
- **The system is designed to automatically check the sensor's functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear the sensor area regularly.**
- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**


SSD0253

When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the Intelligent Forward Collision Warning system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the system may warn you by blinking the vehicle ahead detection indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

SYSTEM TEMPORARILY UNAVAILABLE (Type A)

Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the Intelligent Forward Collision Warning system is automatically turned off. The Intelligent Emergency Braking system OFF warning light (yellow) will illuminate and the "Currently Unavailable Radar Inhibited" warning message will appear in the vehicle information display.

Action to take:

When the above conditions no longer exist, the Intelligent Forward Collision Warning system will resume automatically.

Condition B

Under the following conditions, making it impossible to detect a vehicle ahead, the Intelligent Forward Collision Warning system is automatically turned off.

The Intelligent Emergency Braking system OFF warning light (yellow) will illuminate and the "Temporarily Disabled Front Radar Blocked See Owner's Manual" warning message will appear in the vehicle information display.

- When the sensor area of the front of the vehicle is covered with dirt or is obstructed

Action to take:

If the warning light (yellow) illuminate, stop the vehicle in a safe place, push the park button to engage the "P" (Park) position and turn the engine off. Clean the radar cover on the front of the vehicle with a soft cloth, and restart the engine. If the warning light continues to illuminate, have the Intelligent Forward Collision Warning system checked. It is recommended you visit a NISSAN dealer for this service.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls)

Action to take:

When the above conditions no longer exist, the Intelligent Forward Collision Warning system will resume automatically.

SYSTEM TEMPORARILY UNAVAILABLE (Type B)

Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the Intelligent Forward Collision Warning system is automatically turned off. The Intelligent Emergency Braking system OFF warning light (yellow) will flash.

Action to take:

When the above conditions no longer exist, the Intelligent Forward Collision Warning system will resume automatically.

Condition B

Under the following conditions, making it impossible to detect a vehicle ahead, the Intelligent Forward Collision Warning system is automatically turned off.

The Intelligent Emergency Braking system OFF warning light (yellow) will flash and the "Temporarily Disabled Front Radar Blocked" warning message will appear in the vehicle information display.

- When the sensor area of the front of the vehicle is covered with dirt or is obstructed

Action to take:

If the warning light (yellow) flashes, stop the vehicle in a safe place, push the park button to engage the "P" (Park) position and turn the engine off. Clean the radar cover on the front of the vehicle with a soft cloth, and restart the engine. If the warning light continues to illuminate, have the Intelligent Forward Collision Warning system checked. It is recommended you visit a NISSAN dealer for this service.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls)

Action to take:

When the above conditions no longer exist, the Intelligent Forward Collision Warning system will resume automatically.

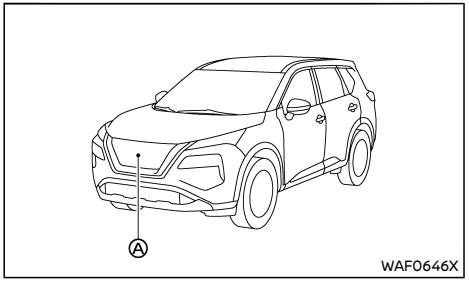
SYSTEM MALFUNCTION

If the Intelligent Forward Collision Warning system malfunctions, it will be turned off automatically, a chime will sound, the Intelligent Emergency Braking system OFF warning light (yellow) will illuminate and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning light (yellow) illuminates, stop the vehicle in a safe location. Turn the engine off and restart the engine. If the warning light continues to illuminate, have the Intelligent Forward Collision Warning system checked. It is recommended you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



The radar sensor Ⓐ is located on the front of the vehicle.

To keep the system operating properly, be sure to observe the following:

- Always keep the sensor area on the front of the vehicle clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front bumper near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. It is recommended you contact a NISSAN dealer before customizing or restoring the front bumper.

Radio frequency statement

FCC Notice:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

For the other radio approval numbers and information, see "Radio approval number and information" (P.9-15).

INTELLIGENT DRIVER ALERTNESS (if equipped)

APPLICATION

There are some differences in the system functions/behaviors depending on the model.

- Type A is for models with the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.
- Type B is for models without the "Driver Assist Custom" setting in the "Shortcut Menu" screen of the vehicle information display.

WARNING:

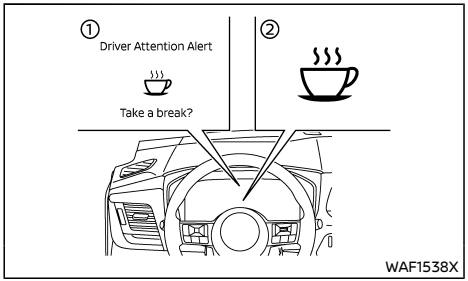
Failure to follow the warnings and instructions for proper use of the Intelligent Driver Alertness system could result in serious injury or death.

- **The Intelligent Driver Alertness system is only a warning to inform the driver of a potential lack of driver attention or drowsiness. It will not steer the vehicle or prevent loss of control.**
- **The Intelligent Driver Alertness system does not detect and provide an alert of the driver's lack of attention or fatigue in every situation.**
- **It is the driver's responsibility to:**
  - **— Stay alert.**
  - **— Drive safely.**
  - **— Keep the vehicle in the traveling lane.**
  - **— Be in control of the vehicle at all times.**
  - **— Avoid driving when tired.**
  - **— Avoid distractions (texting, etc).**

The Intelligent Driver Alertness system helps alert the driver if the system detects a lack of attention or driving fatigue.

The system monitors driving style and steering behavior over a period of time, and it detects changes from the normal pattern. If the system detects that driver attention is decreasing over a period of time, the system uses audible and visual warnings to suggest that the driver take a break.

INTELLIGENT DRIVER ALERTNESS SYSTEM OPERATION



Example

① Take a break? message (on the vehicle information display)

② Intelligent Driver Alertness indicator light (on the meter panel) (Type A)

If the system detects driver fatigue or that driver attention is decreasing, the message "Take a break?" appears in the vehicle information display and a chime sounds when the vehicle is driven at speeds above 60 km/h (37 MPH).

In addition, the system (Type A) operates as follows:

- When the system alerts the driver, the Intelligent Driver Alertness indicator light (white) will also illuminate.
- The chime will sound continuously.

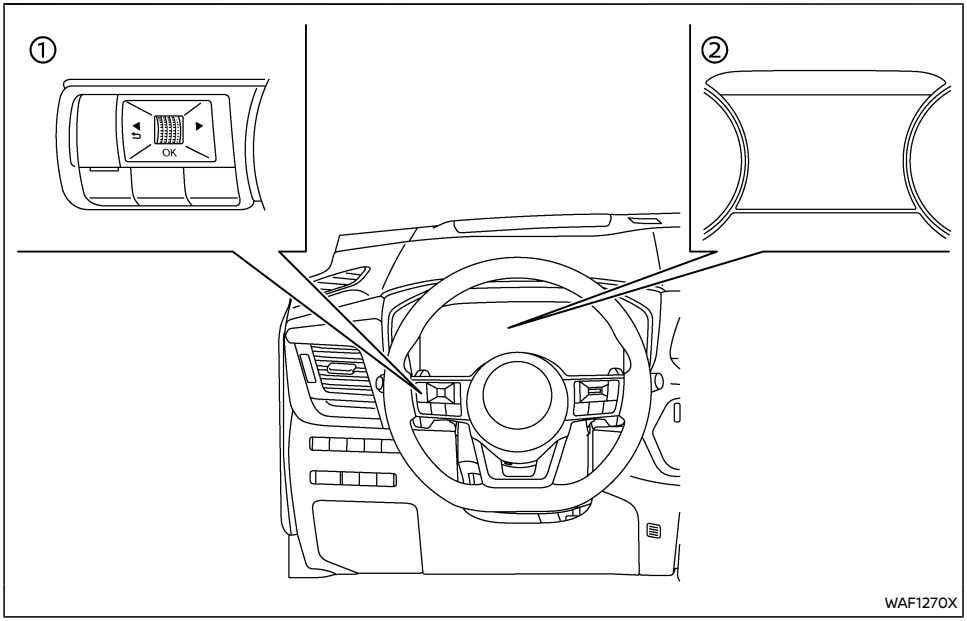
To disable the warning, push the scroll dial on the steering wheel.

The system continuously monitors driver attention and can provide multiple warnings per trip.

The system resets and starts reassessing driving style and steering behavior when the ignition switch is cycled from the "ON" to the "OFF" position and back to the "ON" position.

The system will not operate when Steering Assist system (if equipped) is activated.

HOW TO ENABLE/DISABLE THE INTELLIGENT DRIVER ALERTNESS SYSTEM WARNING



① Steering-wheel-mounted control (left side)

② Vehicle information display

Perform the following steps to enable or disable the Intelligent Driver Alertness system warning.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Driver Attention Alert" and push the scroll dial.

NOTE:

- **The Intelligent Driver Alertness system will automatically be turned on when the engine is restarted.**
- **As long as Steering Assist (if equipped) is activated, the Intelligent Driver Alertness system will be deactivated.**

Turning off Steering Assist reactivates the Intelligent Driver Alertness system.

INTELLIGENT DRIVER ALERTNESS SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the Intelligent Driver Alertness system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **The Intelligent Driver Alertness system may not operate properly and may not provide an alert in the following conditions:**
  - **— Poor road conditions such as an uneven road surface or pot holes.**
  - **— Strong side wind.**
  - **— If you have adopted a sporty driving style with higher cornering speeds or higher rates of acceleration.**
  - **— Frequent lane changes or changes to vehicle speed.**
- **The Intelligent Driver Alertness system will not provide an alert in the following conditions:**
  - **— Vehicle speeds lower than 60 km/h (37 MPH).**
  - **— Short lapses of attention.**
  - **— Instantaneous distractions such as dropping an object.**
  - **— While Steering Assist (if equipped) is activated.**

SYSTEM MALFUNCTION (Type A)

If the Intelligent Driver Alertness system malfunctions, it will be turned off automatically, the Intelligent Driver Alertness indicator light (yellow) will illuminate and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the indicator light (yellow) illuminates, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the indicator light (yellow) continues to illuminate, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MALFUNCTION (Type B)

If the Intelligent Driver Alertness system malfunctions, the "System fault See Owner's Manual" warning message will appear in the vehicle information display and the function will be stopped automatically.

Action to take:

If the warning message appears, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning message continues to appear, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

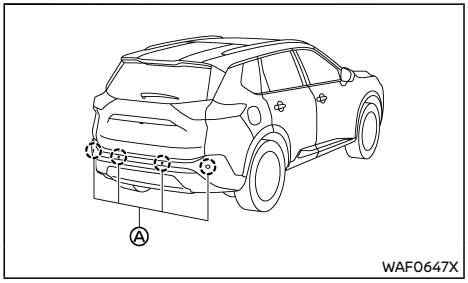
REAR AUTOMATIC BRAKING (RAB) (if equipped)

WARNING:

Failure to follow the warnings and instructions for proper use of the RAB system could result in serious injury or death.

- **The RAB system is a supplemental aid to the driver. It is not a replacement for proper driving procedures. Always use the side and rear mirrors and turn and look in the direction you will move before and while backing up. Never rely solely on the RAB system. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **There is a limitation to the RAB system capability. The RAB system is not effective in all situations.**

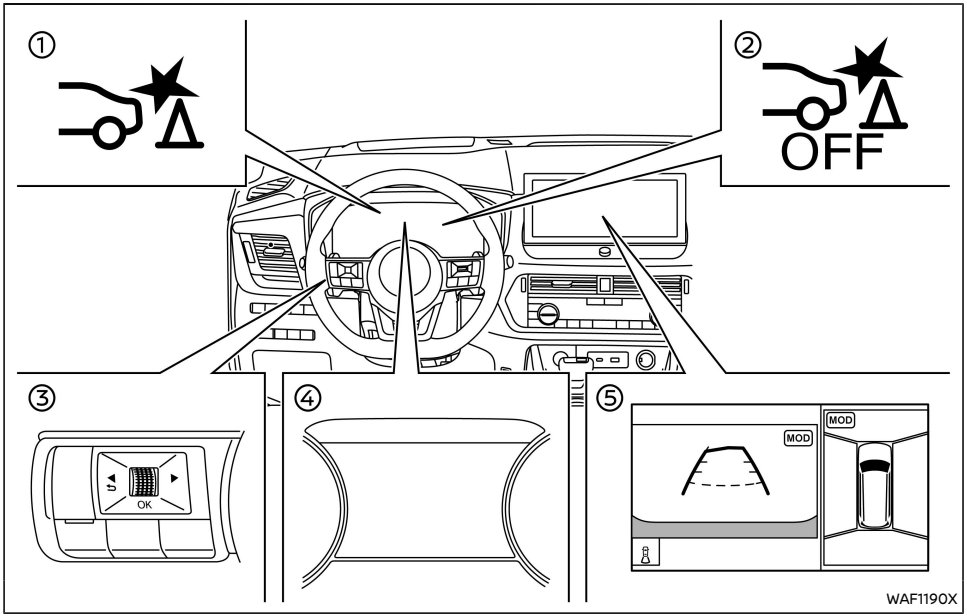
The RAB system can assist the driver when the vehicle is backing up and approaching objects directly behind the vehicle.



The RAB system detects obstacles behind the vehicle using the parking sensors Ⓐ located on the rear bumper.

NOTE:

You can temporarily cancel the sensor function and the RAB system in the vehicle. For additional information, see "Parking sensor (sonar) system" (P.5-177).



Example

① RAB system warning indicator (on the vehicle information display)
② RAB system OFF warning light (on the meter panel)
③ Steering-wheel-mounted controls (left side)
④ Vehicle information display
⑤ Center display (if equipped)

RAB SYSTEM OPERATION

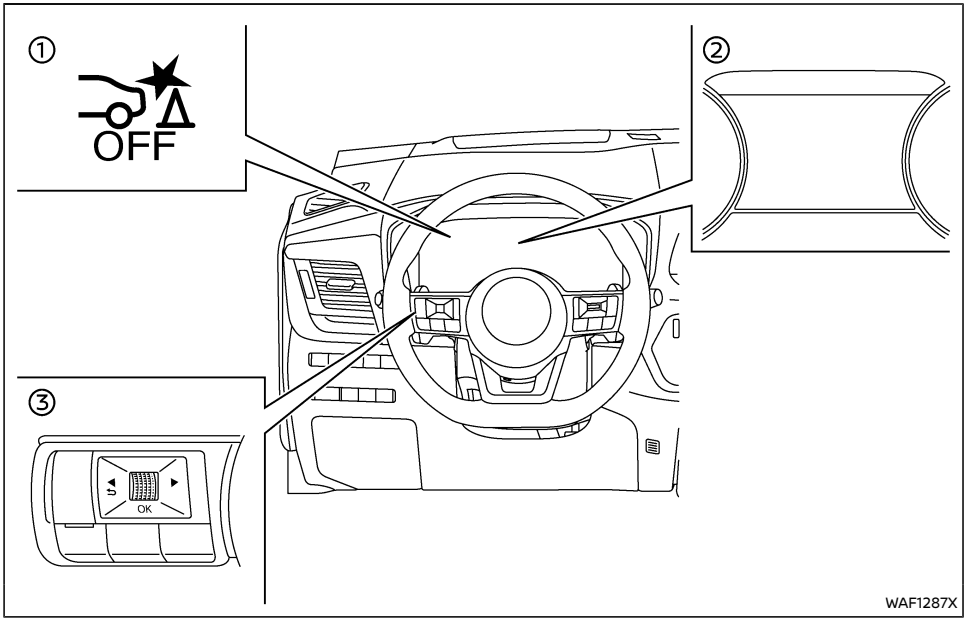
When the shift lever is in the "R" (Reverse) position and the vehicle speed is between approximately 3 km/h (2 MPH) and 15 km/h (9 MPH), the RAB system operates.

If a risk of a collision with an obstacle is detected when your vehicle is backing up, the RAB system warning indicator will flash in the vehicle information display, a red frame will appear in the center display (models with the Intelligent Around View Monitor system), and the system will chime three times. The system will then automatically apply the brakes. After the automatic brake application, the driver must depress the brake pedal to maintain brake pressure.

NOTE:

- **The stop lights of the vehicle come on when braking is performed by the RAB system.**
- **When the brakes operate, a noise may be heard. This is not a malfunction.**

TURNING THE RAB SYSTEM ON/OFF



① RAB system OFF warning light
② Vehicle information display
③ Steering-wheel-mounted control (left side)

Perform the following steps to turn the RAB system ON or OFF.

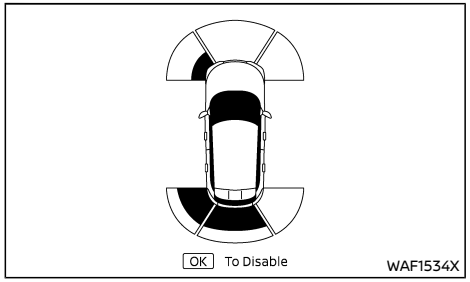
1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Emergency Brake" and push the scroll dial.
3. Select "Rear" and use the scroll dial to turn the system on or off.

When the RAB system is turned off, the RAB system OFF warning light illuminates when the shift lever is in the "R" (Reverse) position.

The RAB system OFF warning light will also illuminate when the shift lever is in the "R" (Reverse) position and the RAB system is ON if the parking sensors (sonar) have been temporarily disabled using the "Parking Aids" setting.

NOTE:

- **The RAB system will be automatically turned on when the engine is restarted.**



Example

- **When the shift lever is in the "R" (Reverse) position and the Parking Aids screen is displayed in the vehicle information display, the parking sensor (sonar) system can be disabled temporarily by pushing the scroll dial on the steering wheel.**

RAB SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the RAB system. Failure to follow the warnings and instructions for proper use of the RAB system could result in serious injury or death.

- **When the vehicle approaches an obstacle while the accelerator or brake pedal is depressed, the function may not operate or the start of the operation may be**

delayed. The RAB system may not operate or may not perform sufficiently due to vehicle conditions, driving conditions, the traffic environment, the weather, road surface conditions, etc. Do not wait for the system to operate. Operate the brake pedal by yourself as soon as necessary.

- If it is necessary to override RAB operation, strongly press the accelerator pedal.
- Always check your surroundings and turn to check what is behind you before and while backing up. The RAB system detects stationary objects behind the vehicle. The RAB system does not detect the following objects:
  - Moving objects
  - Low objects
  - Narrow objects
  - Wedge-shaped objects
  - Complex-shaped objects
  - Multiple object in close
  - Objects close to the bumper (less than approximately 1 ft [30 cm])
  - Objects that suddenly appear
  - Thin objects such as rope, wire, chain, etc.
- The RAB system may not operate for pedestrians or animals.
- The RAB system may not operate for the following obstacles:
  - Obstacles located high off the ground
  - Obstacles in a position offset from your vehicle
  - Obstacles, such as spongy materials or snow, that have soft outer surfaces and can easily absorb a sound wave
- The RAB system may not operate in the following conditions:
  - There is rain, snow, ice, dirt, etc., attached to the parking sensors.
  - A loud sound is heard in the area around the vehicle.
  - The surface of the obstacle is diagonal to the rear of the vehicle.
  - The parking sensors or the area around them are extremely hot or cold.
- The RAB system may unintentionally operate in the following conditions:
  - There is overgrown grass in the area around the vehicle.
  - There is a structure (e.g., a wall, toll gate equipment, a narrow tunnel, a parking lot gate) near the side of the vehicle.
  - There are bumps, protrusions, or manhole covers on the road surface.
  - The vehicle is driving through a draped flag or a curtain.
  - The vehicle is driving on a steep hill.
  - There is an accumulation of snow or ice behind the vehicle.
  - An ultrasonic wave source, such as another vehicle's parking sensor, is near the vehicle.
- Once the automatic brake control operates, it does not operate again if the vehicle approaches the same obstacle.
- The automatic brake control can only operate for a short period of time. Therefore, the driver must depress the brake pedal.
- In the following situations, the RAB system may not operate properly or may not function sufficiently:
  - The vehicle is driven in bad weather (rain, fog, snow, etc.).
  - The vehicle is driven on a steep hill.
  - The vehicle's posture is changed (e.g., when driving over a bump).
  - The vehicle is driven on a slippery road.
  - The vehicle is turned sharply by turning the steering wheel fully.
  - Snow chains are used.
  - Wheels or tires other than NISSAN recommended are used.
  - The brakes are cold at low ambient temperatures or immediately after driving has started.
  - The braking force becomes poor due to wet brakes after driving through a puddle or washing the vehicle.
- Turn the RAB system off in the following conditions to prevent the occurrence of an unexpected accident resulting from sudden system operation:
  - The vehicle is towed.
  - The vehicle is carried on a flatbed truck.
  - The vehicle is on the chassis dynamometer.
  - The vehicle drives on an uneven road surface.
  - Suspension parts other than those designated as genuine parts are used. (If the vehicle height or the vehicle body inclination is changed,

the system may not detect an obstacle correctly.)

- **When towing a trailer or other vehicle (for Australia, New Zealand, South Africa and Europe), turn the RAB system off to prevent the occurrence of an unexpected accident resulting from sudden system operation. (See "RAB system operation" (P.5-158).)**
- **Excessive noise (e.g., audio system volume, an open vehicle window) will interfere with the chime sound, and it may not be heard.**

SYSTEM MALFUNCTION

If the RAB system malfunctions, it will be turned off automatically, a chime will sound, the RAB system OFF warning light will illuminate, and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

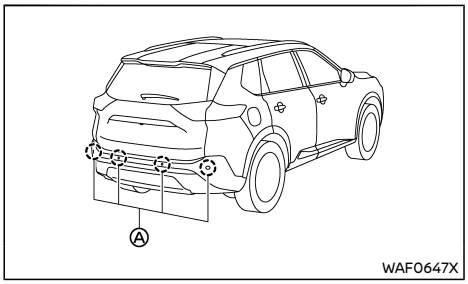
Action to take

If the warning light illuminates, park the vehicle in a safe location, turn the engine off, and restart the engine. If the warning light continues to illuminate, have the RAB system checked. It is recommended that you visit a NISSAN dealer for this service.

NOTE:

If the RAB system cannot be operated temporarily, the RAB system OFF warning light blinks.

SYSTEM MAINTENANCE



The parking sensors Ⓐ are located on the rear bumper. Observe the following items to ensure proper operation of the system:

- Always keep the sensors clean.
- If the sensors are dirty, wipe them off with a soft cloth while being careful to not damage them.
- The sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the sensors. Check for and remove objects obstructing the area around the sensors.
- Do not subject the area around the sensors to strong impact. Also, do not remove or disassemble the sensors. If the sensors and peripheral areas are deformed in an accident, etc., have the sensors checked. It is recommended that you visit a NISSAN dealer for this service.
- Do not attach stickers (including transparent material), install accessories or apply additional paint on the sensors and their surrounding areas. This may cause a malfunction or improper operation.
- When washing the vehicle using a high-pressure washer, do not apply direct washer pressure on the sensors. This may cause a malfunction of the sensors.

FUEL EFFICIENT DRIVING TIPS

Follow these easy-to-use Fuel Efficient Driving Tips to help you achieve the most fuel economy from your vehicle.

1. Use smooth accelerator and brake pedal application.
   - Avoid rapid starts and stops.
   - Use smooth, gentle accelerator and brake application whenever possible.
   - Maintain constant speed while commuting and coast whenever possible.
2. Maintain constant speed.
   - Look ahead to try and anticipate and minimize stops.
   - Synchronizing your speed with traffic lights allows you to reduce your number of stops.
   - Maintaining a steady speed can minimize red light stops and improve fuel efficiency.
3. Use air conditioning (A/C) at higher vehicle speeds.
   - Below 64 km/h (40 MPH), it is more efficient to open windows to cool the vehicle due to reduced engine load.
   - Above 64 km/h (40 MPH), it is more efficient to use A/C to cool the vehicle due to increased aerodynamic drag.
   - Recirculating the cool air in the cabin when the A/C is on reduces cooling load.
4. Drive at economical speeds and distances.
   - Observing the speed limit and not exceeding 97 km/h (60 MPH) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag.
   - Maintaining a safe following distance behind other vehicles reduces unnecessary braking.
   - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes.
   - Select a gear range suitable to road conditions.
5. Use cruise control.
   - Using cruise control during highway driving helps maintain a steady speed.
   - Cruise control is particularly effective in providing fuel savings when driving on flat terrains.
6. Plan for the shortest route.
   - Utilize a map or navigation system (if equipped) to determine the best route to save time.
7. Avoid idling.
   - Shutting off your engine when safe for stops exceeding 30-60 seconds saves fuel and reduces emissions.
8. Buy an automated pass for toll roads.
   - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting.
9. Winter warm up.
   - Limit idling time to minimize impact to fuel economy.
   - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving.
   - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling.
10. Keeping your vehicle cool.
    - Park your vehicle in a covered parking area or in the shade whenever possible.
    - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system.

INCREASING FUEL ECONOMY AND REDUCING CARBON DIOXIDE EMISSIONS

- Keep your engine tuned up.
- Follow the recommended scheduled maintenance.
- Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Use the recommended viscosity engine oil. (See "Recommended fluids/lubricants and capacities" (P.9-2).)

SMART SIMPLE HYBRID SYSTEM (if equipped)

The Smart simple hybrid system helps to enhance the fuel economy by controlling the Stop/Start System or Idling Stop System, the torque assist function, and battery charging by the electric motor (regeneration).

The vehicle has two batteries, a main battery (12-volt) and an auxiliary battery (Lithium-ion), that is specially designed for the Smart simple hybrid system. (See "Battery" (P.8-18) for additional information.)

CAUTION:

Do not drive the vehicle with any of battery terminal is disconnected. Doing so may lead to the system malfunction and may cause an accident.

NOTE:

- **Use the special 12-volt battery (main battery) that is enhanced in regard to the charge-discharge capacity and life performance. Avoid using a non-special battery, as this may cause early deterioration of the battery or a malfunction of the Stop/Start System or Idling Stop System and the torque assist function.**
- **For the 12-volt battery (main battery), it is recommended to use Genuine NISSAN parts. For more information, contact a NISSAN dealer.**
- **For the auxiliary battery (Lithium-ion), it is recommended to use Genuine NISSAN parts. For more information, contact a NISSAN dealer.**

REGENERATION

- When the vehicle is coasting (accelerator pedal is released) or decelerating (brake pedal is depressed) and the certain conditions are met, the batteries can be charged by the electric motor.
- Regenerated energy (electric power), stored in the high-efficiency Lithium ion (Li-ion) battery (auxiliary battery), is used for driving.

TORQUE ASSIST FUNCTION

- With the batteries sufficiently charged, when restarting the vehicle from the Stop/Start or Idling Stop condition, the electric motor will assist the acceleration torque for up to approximately 20 seconds.
- When the vehicle is accelerating, running the electric motor (torque assist) will help to reduce fuel consumption.
- The electric motor is run by regenerated energy that was charged while decelerating.

NOTE:

The torque assist function will not activate under the following conditions. (There may be some situations other than those listed below when the torque assist function will not activate.)

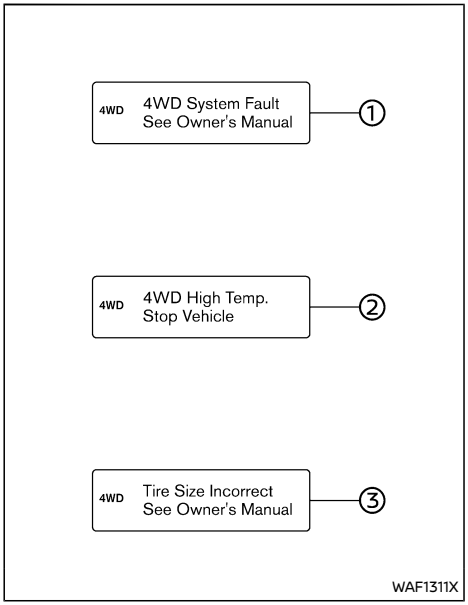
- **Starting or accelerating abruptly.**
- **The brake pedal is depressed.**
- **The accelerator pedal is released.**
- **The Anti-lock Braking System (ABS) and/or the Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system is in operation.**
- **The batteries are not sufficiently charged.**

- **The outside temperature is low and the battery function needs to be protected.**

WARNING:

Do not drive the vehicle with the battery terminal disconnected. Each vehicle system may cause malfunction resulting in an accident unexpectedly.

If any malfunction occurs in the Intelligent 4x4 system while the engine is running, warning messages appear in the vehicle information display.



If the "4WD System Fault" warning ① appears, there may be a malfunction in the Intelligent 4x4 system. Reduce vehicle speed and have your vehicle checked by a NISSAN dealer as soon as possible.

The "4WD High Temp. Stop vehicle" (high temperature) warning ② appears when the oil temperature of the powertrain parts increases due to the difference in rotation between the front and rear wheels is large (wheel slip), such as when driving on rough roads, driving through sand or mud, or freeing a stuck vehicle. If this warning is displayed, stop the vehicle with the engine idling, as soon as it is safe to do so. In these cases, the 4WD/AWD changes to 2WD to protect the powertrain parts. Then if the warning turns off, you can continue 4WD/AWD driving.

The "Tire Size Incorrect" warning ③ may appear if there is a large difference between the diameters of front and rear wheels and tires. Pull off the road in a safe area, with the engine idling. Check that all tire sizes, brand, construction and tread pattern are the same, that the tire pressures are correct and that the tires are not excessively worn. If you have any problems, change tires or adjust tire pressures correctly. Do not select the SNOW or OFF-ROAD mode with the Drive Mode Selector and do not drive fast.

If any warning message continues to be displayed, have your vehicle checked by a NISSAN dealer as soon as possible.

WARNING:

- **For 4WD/AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.**
- **Do not attempt to test an 4WD/AWD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing) or similar equipment even if the other two wheels are raised off the ground. Make**

sure that you inform the test facility personnel that your vehicle is equipped with 4WD/AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drive train damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

CAUTION:

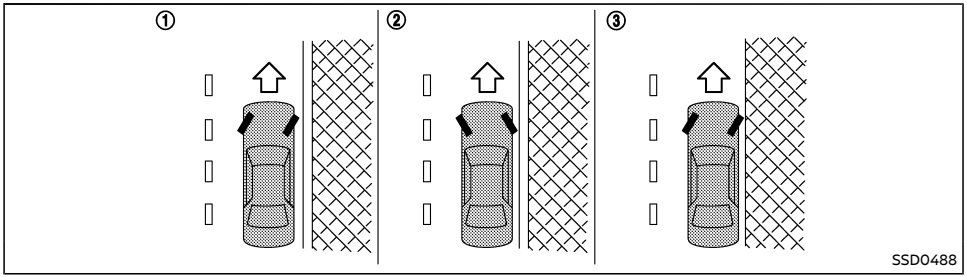
- **Do not operate the engine on a free roller when any of the wheels raised.**
- **The power train may be damaged if you continue driving with the "4WD System Fault" warning on.**
- **If the warning message remains on after the above operation, have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.**
- **If the "4WD System Fault" warning appears while driving, there may be a malfunction in the 4WD/AWD system.**

  Reduce the vehicle speed and have your vehicle checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

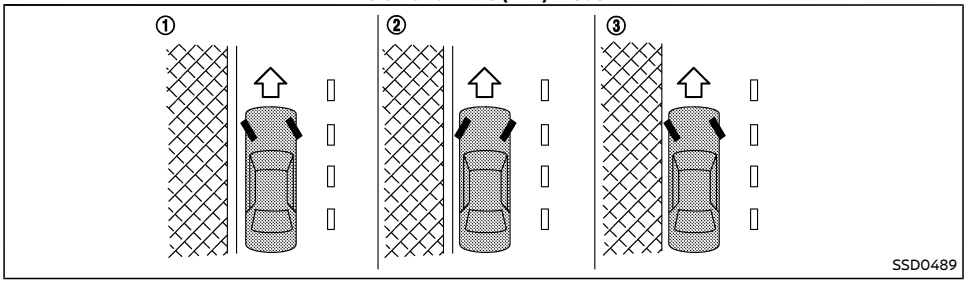
When the vehicle is in the "P" (Park) position, the operation noise may be heard from the lower part of the vehicle. This is not a malfunction.

WARNING:

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Never leave the engine running while the vehicle is unattended.**
- **When parking for an extended period of time with Stop/Start System or Idling Stop System (if equipped) activated, the engine will restart automatically. Never leave the vehicle with the ignition switch in the "ON" position.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Safe parking procedures require that both the parking brake be applied and the transmission placed into "P" (Park). Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**
- **Make sure the shift lever cannot be moved without depressing the foot brake pedal.**



Left-Hand Drive (LHD) model



Right-Hand Drive (RHD) model

1. Apply the parking brake.
2. Push the park button to shift to the "P" (Park) position.
3. To help prevent the vehicle from rolling into the street when parked on a sloping drive way, it is a good practice to turn the wheels as illustrated.
   - HEADED DOWNHILL WITH CURB: ①

     Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
   - HEADED UPHILL WITH CURB: ②

     Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
   - HEADED UPHILL OR DOWNHILL, NO CURB: ③

     Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.
4. Place the ignition switch in the "OFF" position.

NOTE:

For model with Stop/Start System or Idling Stop System, use the system when the vehicle is stopped for a period of time, for example waiting at stoplights. Stop the engine with the ignition switch when parking, etc. for an extended period of time.

TRAILER TOWING (except for Australia, New Zealand, South Africa and Europe)

Your vehicle was designed to be used to carry passengers and luggage. NISSAN does not recommend trailer towing, because it places additional loads on your vehicle's engine, drivetrain, steering, braking, and other systems.

CAUTION:

Vehicle damage resulting from towing a trailer is not covered by the warranties.

TRAILER TOWING (for Australia, New Zealand, South Africa and Europe)

Your new vehicle was designed to be used primarily to carry passengers and luggage.

Towing a trailer will place additional loads on your vehicle's engine, drive train, steering, braking and other systems. The towing of a trailer will exaggerate other conditions such as sway caused by crosswinds, rough road surfaces or passing trucks.

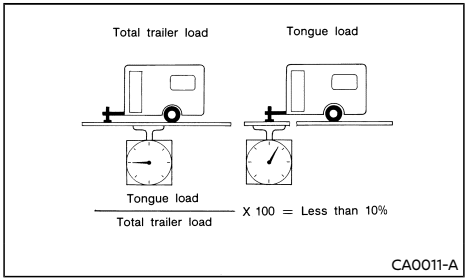
Your driving style and speed must be adjusted according to the circumstances. Before towing a trailer, see a NISSAN dealer for an explanation about the proper use of towing equipment.

OPERATING PRECAUTIONS

- Avoid towing a trailer during the break-in period.
- Before driving, make sure that the lighting system of the trailer works properly.
- Observe the legal maximum speeds for trailer operation.

  Do not exceed 100 km/h (62 MPH) (for Europe).
- Avoid abrupt starts, accelerations and stops.
- Avoid sharp turns and lane changes.
- Always drive your vehicle at a moderate speed.
- Do not use the following systems (if equipped) while towing a trailer:
  - Lane Departure Warning (LDW) system
  - Intelligent Lane Intervention system
  - Emergency Lane Assist (ELA) system
  - Blind Spot Warning (BSW) system
  - Intelligent Blind Spot Intervention system
  - Rear Cross Traffic Alert (RCTA) system
  - Intelligent Cruise Control (ICC) system
  - ProPILOT system
  - Intelligent Emergency Braking with Pedestrian Detection system
  - Intelligent Forward Collision Warning system
  - Rear Automatic Braking (RAB) system
- Follow the trailer manufacturer's instructions.
- Choose proper coupling devices (trailer hitch, safety chain, roof carrier, etc.) for your vehicle and trailer. These devices are available from a NISSAN dealer where you can also obtain more detailed information about trailer towing.
- Never allow the total trailer load (trailer weight plus its cargo weight) to exceed the maximum set for the vehicle and the coupling device. See a NISSAN dealer for more information.
- The trailer must be loaded so that heavy goods are placed over the axle. The maximum allowable vertical load on the trailer hitch must not be exceeded.
- Have your vehicle serviced more often than at the intervals specified in a separate maintenance booklet.
- Trailer towing requires more energy than under normal circumstances because of a considerable increase in traction power and resistance.
- For models with motion-activated power back door, be sure to deactivate the power back door operation when using the tow bar (if equipped) to avoid unintentional operation. (See "Operating power back door" (P.3-23).)

MAXIMUM LOAD LIMITS (for Australia and New Zealand)



Maximum trailer loads (including tires and other loaded equipment):

1. Never allow the total trailer load to exceed:
   - The maximum 750 kg (1,654 lb) for a trailer without brakes.
   - The maximum 2,000 kg (4,410 lb) for a trailer with brakes.
2. The total trailer load must be lower than the following three values even if it does not exceed the maximum permissible trailer loads.
   - Towing capacity displayed on a tow-bar.
   - Trailer's gross vehicle mass marked on a coupling body.
   - Gross vehicle mass marked on a trailer data plate.

The maximum trailer load which can be towed by your vehicle depends on the towing equipment fitted to the vehicle. Therefore, it is important to not only have the correct equipment fitted but also to use it correctly. Towing loads greater than the value specified for your vehicle or using towing equipment which is not provided by NISSAN could seriously affect the handling and/or performance of your vehicle.

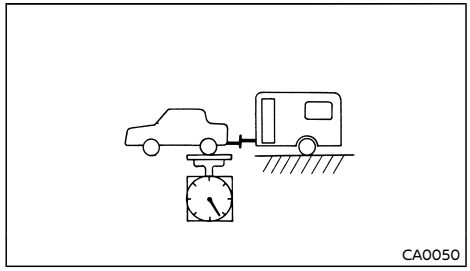
Vehicle damage resulting from improper towing procedures is not covered by NISSAN warranties. Information on trailer towing and the required equipment should be obtained from a NISSAN dealer.

"Never exceed the Gross Vehicle Mass (GVM), Gross Combination Mass (GCM) or Front/Rear Gross Axle Weight Rating (GAWR)."

Maximum tongue load

Never allow the tongue load to exceed 10% of the total trailer load. If the tongue load exceeds 10%, rearrange the cargo in the trailer.

Maximum rear gross axle weight



The rear gross axle weight must not exceed the Gross Axle Weight Rating (GAWR).

The trailer must be loaded so that heavy goods are placed over the axle.

GAWR			
Axle	Seat	Front	Rear
2WD	2 row	1,130 kg (2,491 lb)	1,100 kg (2,425 lb)
4WD/ AWD	2 row	1,120 kg (2,469 lb)	1,065 kg (2,348 lb)
	3 row	1,095 kg (2,414 lb)	1,275 kg (2,811 lb)

TIRE PRESSURE

When towing a trailer, inflate the vehicle tires to the maximum recommended COLD tire pressure (for full loading) indicated on the tire placard.

Do not tow a trailer when the vehicle is installed with a temporary spare tire or a compact spare tire (if equipped).

SAFETY CHAINS

Always use a suitable chain between the vehicle and trailer. The chain should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. Be sure to leave enough slack in the chain to permit turning corners.

TRAILER BRAKES

Ensure that trailer brakes are installed as required by local regulations. Also check that all other trailer equipment conforms to local regulations.

Always block the wheels on both the vehicle and trailer when parking. Apply the hand brake on the trailer if equipped. Parking on a steep slope is not recommended.

If parking on a steep slope is unavoidable, push the park button to shift to the "P" (Park) position, and turn the front wheels towards the curb.

TRAILER DETECTION (if equipped)

When towing a trailer with a genuine NISSAN tow bar electrical kit and the turn signal switch is used, the electrical system of the vehicle will detect the additional electrical load of the trailer lighting. As a result, the direction indicator tone will be different.

TRAILER SWAY CONTROL

To minimize trailer sway, your vehicle may apply braking to individual wheels based on input from your vehicle sensors and vehicle speed. Trailer Sway Control is a function of the Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system and is active when the VDC/ESP function is enabled.

CAUTION:

If the VDC/ESP system is turned OFF, the Trailer Sway Control is also disabled.

When Trailer Sway Control is in operation, the slip indicator light blinks. When vehicle control is regained, slip indicator light will turn OFF.

For additional information about the VDC/ESP system, see "Vehicle Dynamic Control (VDC)/ Electronic Stability Program (ESP) system" (P.5-172).

If Trailer Sway Control activates

1. Take your foot off the accelerator pedal to allow the vehicle to coast and steer as straight ahead as the road conditions allow. This combination will help stabilize the vehicle.

CAUTION:

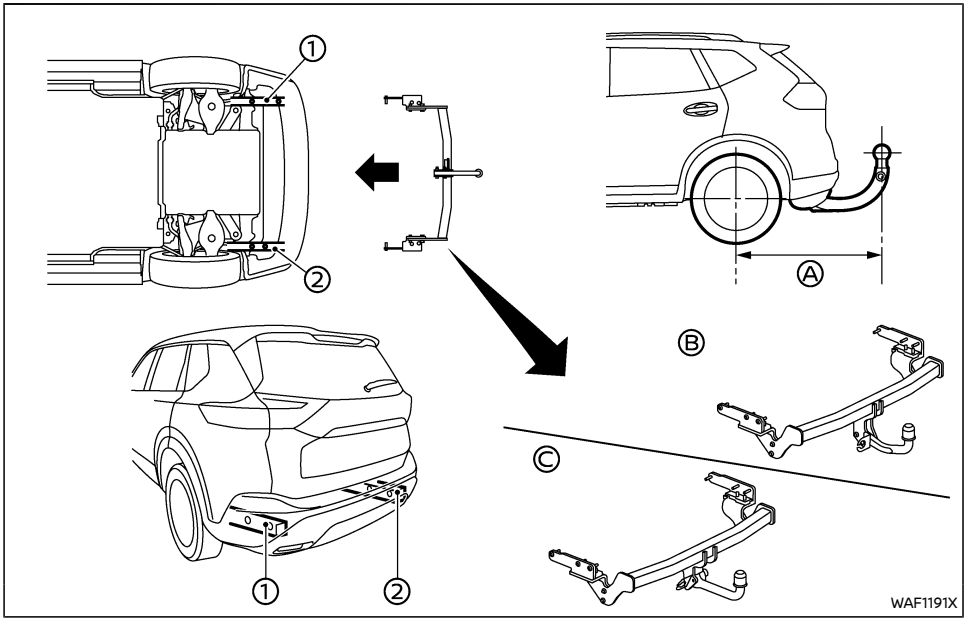
Do not try to correct trailer sway by steering or applying the brakes.

2. When the trailer sway stops, gently apply the brakes and pull to the side of the road in a safe area.
3. Try to rearrange the trailer load so it is balanced.

NOTE:

Trailer Sway Control cannot reduce trailer sway in all situations.

COUPLING DEVICE INSTALLATION (for Europe)



NISSAN recommends that the coupling device for trailer towing be installed under the following conditions:

- Maximum permissible vertical load on the coupling device: 981 N (100 kg, 221 lb)
- The coupling device, mounting points and installation parts on your vehicle: as shown as an example in the illustration.
- Rear overhang of coupling device:
  Ⓐ 1,120 mm (44.1 in)
  Ⓑ Fixed tow bar
  Ⓒ Detachable tow bar

Follow all of the coupling device manufacturer's instructions for installation and use.

WARNING:

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.**
- **When the electric power steering warning light illuminates with the engine running, the power assist for the steering will cease operation. You will still have control of the vehicle but the steering will be harder to operate.**

The electric power steering is designed to provide power assist while driving to operate the steering wheel with light force.

When SPORT mode is selected, the steering wheel effort is moderately increased for a sporty feel. (See "SPORT mode" (P.5-18).)

When the steering wheel is operated repeatedly or continuously while parking or driving at a very low speed, the power assist for the steering wheel will be reduced. This is to prevent overheating of the electric power steering and protect it from getting damaged. While the power assist is reduced, steering wheel operation will become heavy. If the steering wheel operation is still performed, the electric power steering may stop and the electric power steering warning light will illuminate. In a safe location, stop the engine and place the ignition switch in the "OFF" position. When the temperature of the electric power steering goes down, the power assist level will return to normal. Avoid repeating such steering wheel operations that could cause the electric power steering to overheat.

You may hear a noise when the steering wheel is operated quickly. However, this is not a malfunction.

If the electric power steering warning light illuminates while the engine is running, it may indicate the electric power steering is not functioning properly and may need servicing. Have the electric power steering checked. It is recommended that you visit a NISSAN dealer for this service. (See "Electric power steering warning light" (P.2-15).)

When the electric power steering warning light illuminates with the engine running, the power assist for the steering will cease operation. You will still have control of the vehicle. However, greater steering effort is needed, especially in sharp turns and at low speeds.

BRAKING PRECAUTIONS

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and the stopping distance will be longer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wearing out the brake pads faster and reduce gas mileage.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

WARNING:

- **While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.**
- **If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.**

Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry brakes, drive the vehicle at a safe speed while lightly tapping the brake pedal to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

BRAKE ASSIST

When the force applied to the brake pedal exceeds a certain level, the Brake Assist is activated generating greater braking force than a conventional brake booster even with light pedal force.

WARNING:

The Brake Assist is only an aid to assist braking operation and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

ANTI-LOCK BRAKING SYSTEM (ABS)

WARNING:

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire**

chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.

- **Tire type and condition may also affect braking effectiveness.**
  - **— When replacing tires, install the specified size of tires on all four wheels.**
  - **— When installing a spare tire (if equipped), make sure that it is the proper size and type as specified on the tire placard. (See "Tire placard" (P.9-10).)**
  - **— For detailed information, see "Tires and Wheels" (P.8-27).**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

WARNING:

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked. It is recommended you visit a NISSAN dealer for this service.

Normal operation

The ABS operates at speeds above 5 to 10 km/h (3 to 6 MPH). The speed varies according to road conditions.

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

VEHICLE DYNAMIC CONTROL (VDC)/ELECTRONIC STABILITY PROGRAM (ESP) SYSTEM*

*: The system name differs depending on the country.

The Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC/ESP system helps to perform the following functions.

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non slipping drive wheel on the same axle.
- Controls brake pressure and engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
  - — understeer (vehicle tends to not follow the steered path despite increased steering input)
  - — oversteer (vehicle tends to spin due to certain road or driving conditions).

The VDC/ESP system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC/ESP system operates, the slip indicator light in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC/ESP system is working properly.

- Adjust your speed and driving to the road conditions.

If a malfunction occurs in the system, the slip indicator light illuminates in the instrument panel. The VDC/ESP system automatically turns off.

The vehicle information display is used to turn off the VDC/ESP system. The VDC/ESP off indicator illuminates to indicate the VDC/ESP system is off. When the VDC/ESP system is turned off, the VDC/ESP system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The slip indicator light flashes if this occurs. All other VDC/ESP functions are off, and the slip indicator light will not flash. The VDC/ESP system is automatically reset to on when the ignition switch is placed in the off position then back to the on position.

See "Slip indicator light" (P.2-19) and "Vehicle Dynamic Control (VDC) off indicator light/Electronic Stability Program (ESP) off indicator light" (P.2-20).

The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

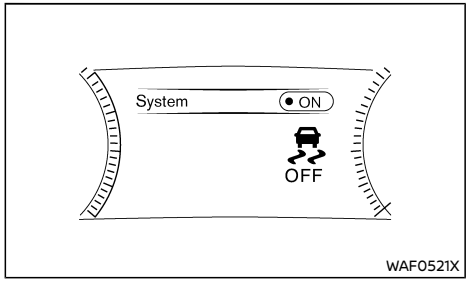
WARNING:

- **The VDC/ESP system is designed to help improve driving stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC/ESP system may not operate properly. This could adversely affect vehicle handling performance, and the slip indicator light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC/ESP system may not operate properly and the slip indicator light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the slip indicator light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC/ESP system may not operate properly and the slip indicator light may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the slip indicator light may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC/ESP system may not operate properly and the slip indicator light may illuminate.**
- **The VDC/ESP system is not a substitute for winter tires or tire chains on a snow covered road.**

HOW TO TURN OFF THE VDC/ESP SYSTEM

The vehicle should be driven with the Vehicle Dynamic Control (VDC)/Electronic Stability Program (ESP) system ON for most driving conditions.

When the vehicle is stuck in mud or snow, the VDC/ESP system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC/ESP system off.



Example

To turn off the VDC/ESP system, perform the following steps in the vehicle information display.

1. Push the ◀ ▶ button on the steering wheel until "Settings" appears and then push the job dial.
2. Use the scroll dial to select "VDC Setting"/"ESP Setting" and then push it.

3. Select “System” and push the scroll dial. The indicator light will illuminate.

Turn "VDC Setting"/"ESP Setting" back on in the vehicle information display or restart the engine to turn on the VDC/ESP system.

BRAKE FORCE DISTRIBUTION

During braking while driving through turns, the system optimizes the distribution of force to each of the four wheels depending on the radius of the turn.

WARNING:

- **The VDC/ESP system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.**
- **Do not modify the vehicle’s suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC/ESP system may not operate properly. This could adversely affect vehicle handling performance, and the indicator light may flash or both the and indicator lights may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC/ESP system may not operate properly and both the and indicator lights may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, both the and indicator lights may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC/ESP system may not operate properly and the indicator light may flash or both the and indicator lights may illuminate. Do not drive on these types of roads.**
- **When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the indicator light may flash or both the and indicator lights may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.**
- **If wheels or tires other than the NISSAN recommended ones are used, the VDC/ESP system may not operate properly and the indicator light may flash or both the and indicator lights may illuminate.**
- **The VDC/ESP system is not a substitute for winter tires or tire chains on a snow covered road.**

CHASSIS CONTROL

The chassis control is an electric control module that includes the following functions:

- Intelligent Trace Control
- Intelligent Ride Control

INTELLIGENT TRACE CONTROL

This system senses driving based on the driver’s steering and acceleration/braking patterns, and controls brake pressure at individual wheels to aid tracing at corners and help smooth vehicle response.

When the VDC/ESP system is turned off, the Intelligent Trace Control is also turned off. Amount of brake control is changed depending on the mode selected by the Drive Mode Selector.

When the Intelligent Trace Control is not functioning properly, the master warning light illuminates, and the warning message “Chassis control system fault” will also appear in the vehicle information display.

If the chassis control warning message appears in the vehicle information display, it may indicate that the Intelligent Trace Control is not functioning properly. Have the system checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service. (See “Vehicle information display warnings and indicators” (P.2-30).)

WARNING:

The Intelligent Trace Control may not be effective depending on the driving condition. Always drive carefully and attentively.

When the Intelligent Trace Control is operating, you may feel a pulsation in the brake pedal and hear a noise. This is normal and indicates that the Intelligent Trace Control is operating prop-

erly. You may also feel deceleration when the Intelligent Trace Control is operating. However, this is not a malfunction.

INTELLIGENT RIDE CONTROL

This system senses upper body motion and controls four wheel brake pressure. This will enhance ride comfort in an effort to restrain uncomfortable upper body movement when passing over undulated road surfaces. When the VDC/ESP system is turned off, the Intelligent Ride Control is also turned off.

If the chassis control warning message appears in the vehicle information display, it may indicate that the Intelligent Ride Control is not functioning properly. Have the system checked as soon as possible. It is recommended that you visit a NISSAN dealer for this service.

WARNING:

The Intelligent Ride Control may not be effective depending on the driving condition. Always drive carefully and attentively.

When the Intelligent Ride Control is operating, you may feel a pulsation in the brake pedal and hear a noise. This is normal and indicates that the Intelligent Ride Control is operating properly. You may also feel deceleration when the Intelligent Ride Control is operating. However, this is not a malfunction.

WARNING:

- **Never rely solely on the hill start assist system to prevent the vehicle from moving backward on a hill. Always drive carefully and attentively. Depress the brake pedal when the vehicle is stopped on a steep hill. Be especially careful when stopped on a hill on frozen or muddy roads. Failure to prevent the vehicle from rolling backwards may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill start assist system is not designed to hold the vehicle at a standstill on a hill. Depress the brake pedal when the vehicle is stopped on a steep hill. Failure to do so may cause the vehicle to roll backwards and may result in a collision or serious personal injury.**
- **The hill start assist system may not prevent the vehicle from rolling backwards on a hill under all load or road conditions. Always be prepared to depress the brake pedal to prevent the vehicle from rolling backwards. Failure to do so may result in a collision or serious personal injury.**

The hill start assist system automatically keeps the brakes applied to help prevent the vehicle from rolling backwards in the time it takes the driver to release the brake pedal and apply the accelerator when the vehicle is stopped on a hill.

The hill start assist system will operate automatically under the following conditions:

- The transmission is shifted to a forward or reverse gear.
- The vehicle is stopped completely on a hill by applying the brake.

The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and the hill start assist system will stop operating completely.

The hill start assist system will not operate when the transmission is shifted to the “N” (Neutral) or “P” (Park) position or on a flat and level road.

When the slip indicator light illuminates in the meter, the hill start assist system will not operate. (See “Slip indicator light” (P.2-19).)

HILL DESCENT CONTROL SYSTEM (if equipped)

WARNING:

- **Never rely solely on the hill descent control system to control vehicle speed when driving on steep downhill grades. Always drive carefully when using the hill descent control system and decelerate the vehicle speed by depressing the brake pedal if necessary. Be especially careful when driving on frozen, muddy or extremely steep downhill roads. Failure to control vehicle speed may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill descent control system may not control the vehicle speed on a hill under all load or road conditions. Always be prepared to depress the brake pedal to control vehicle speed. Failure to do so may result in a collision or serious personal injury.**

CAUTION:

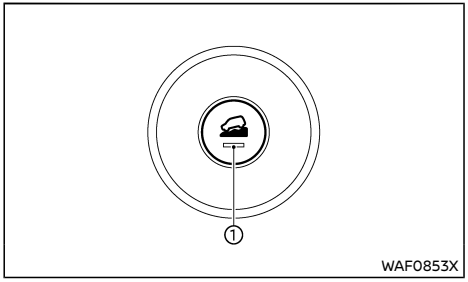
When the hill descent control system operates continuously for a long time, the temperature of the Vehicle Dynamic Control (VDC) system actuator may increase and the hill descent control system may be temporarily disabled (the hill descent control system on indicator light will blink). If the indicator light does not come on continuously after blinking, stop using the system.

When the hill descent control system is activated, it automatically applies smooth brakes to control speed on a steep and slippery descent or off the road without brake or accelerator operation.

The hill descent control system helps maintain vehicle speed when driving under 25 km/h (15 MPH) on a steep descent that engine braking alone in Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) mode cannot control the speed.

When driving forward on the descent, the speed can be adjusted by the brake or accelerator operation. The system maintains the speed for reverse driving on the descent.

HILL DESCENT CONTROL SWITCH



When additional braking is required on steep downhill roads, activate the hill descent control system by pushing the hill descent control switch on.

When the hill descent control system is activated, the hill descent control system on indicator light ① and the hill descent control system on indicator light on the meter will illuminate. (See "Hill descent control system on indicator light" (P.2-18).) Also, the stop/tail lights illuminate while the hill descent control system is applying the brakes to control the vehicle speed.

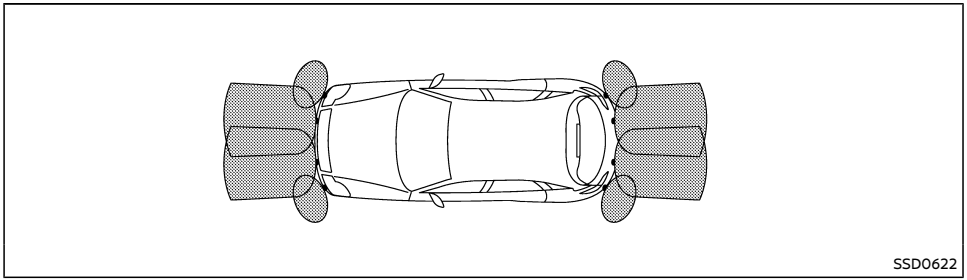
To activate the hill descent control system, satisfy all of the following conditions:

- Shift the transmission to the forward or reverse gear.
- Turn the Drive Mode Selector to the OFF-ROAD or SNOW mode and drive the vehicle at a speed under 25 km/h (15 MPH) (4WD/AWD models).
- Push the hill descent control switch to the "ON" position.

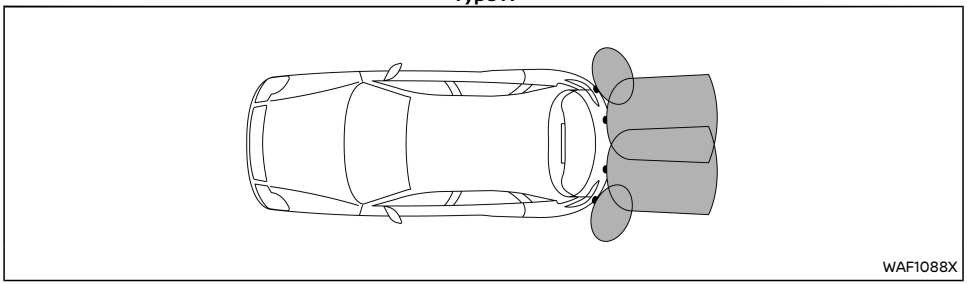
If the accelerator or brake pedal is depressed while the hill descent control system is on, the system will stop operating temporarily. As soon as the accelerator or brake pedal is released, the hill descent control system begins to function again if the hill descent control operating conditions are fulfilled.

The hill descent control system on indicator light blinks if the hill descent control switch is on and all conditions for system activation are not met, or if the system becomes disengaged for any reason.

To turn off the hill descent control system, push the hill descent control switch to the OFF position.



Type A



Type B

The parking sensor (sonar) system sounds a tone to inform the driver of obstacles near the bumper.

When the parking sensor (sonar) system is turned on, the parking sensor (sonar) view will automatically appear in the vehicle information display.

WARNING:

- **The parking sensor (sonar) system is a convenience but it is not a substitute for proper parking.**
- **The driver is always responsible for safety during parking and other maneuvers. Always look around and check that it is safe to do so before parking.**
- **If there is any doubt the surroundings in the path of the parking area and/or the parking area itself are not free from obstacles, immediately stop the vehicle and check the surroundings.**
- **Read and understand the limitations of the parking sensor (sonar) system as contained in this section. The colors of the parking sensor indicator and the distance guide lines in the front (if equipped)/rear view indicate different distances to the object.**
- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes or a pneumatic drill may affect the function of the system; this may include reduced performance or a false activation.**
- **The parking sensor (sonar) system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle.**
- **The parking sensor (sonar) system is not designed to prevent contact with small or moving objects. Always move slowly. The system will not detect small objects below the bumper, and may not detect objects close to the bumper or on the ground.**
- **The parking sensor (sonar) system may not detect the following objects: fluffy objects such as snow, cloth, cotton, glass-wool, etc.; thin objects such as rope, wire and chain, etc.; or wedge-shaped objects.**
- **The front (if equipped) and rear parking sensors (sonar) detect the distance between the vehicle and the obstacle by detecting the sound wave reflected from the surface of the obstacle. When there is a sound such as horn, or an ultrasonic source (such as sonar of other vehicles) around the vehicle, the sensor (sonar) may not detect objects properly.**

If your vehicle sustains damage to the bumper fascia, leaving it misaligned or bent, the sensing zone may be altered causing inaccurate measurement of obstacles or false alarms.

CAUTION:

- **Excessive noise (such as audio system volume or an open vehicle window) will interfere with the tone and it may not be heard.**
- **In some conditions (for example, after a car wash or a rain) water can accumulate around the parking sensors (sonar), and this may reduce performance of the system or cause a false activation. This water will drain away automatically while driving, bringing the system performance back to normal.**
- **Keep the parking sensors (located on the bumper fascia) free from snow, ice and large accumulations of dirt. Do not clean the sonar with sharp objects. If the sensors are covered, the accuracy of the parking sensor (sonar) function will be diminished.**

SYSTEM OPERATION

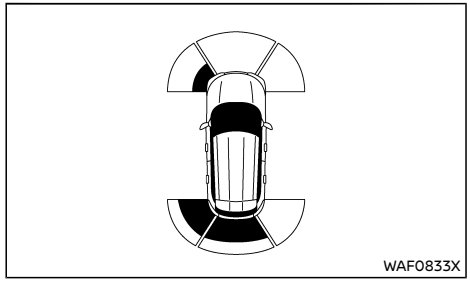
The system informs with a visual and audible alert of:

- front obstacles when the shift lever is in the "D" (Drive) position (if equipped)
- front (if equipped) and rear obstacles when the shift lever is in the "R" (Reverse) position.

The system is deactivated at speeds above 10 km/h (6 MPH). It is reactivated at lower speeds.

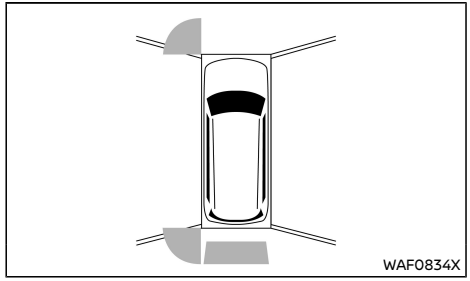
The tone will stop when the obstacle get away from the vehicle.

When the object is detected, the indicator (green) appears and blinks and the tone sounds intermittently. When the vehicle moves closer to the object, the color of the indicator turns yellow and the rate of the blinking increases. When the vehicle is very close to the object, the indicator stops blinking and turns red, and the tone sounds continuously.



Example

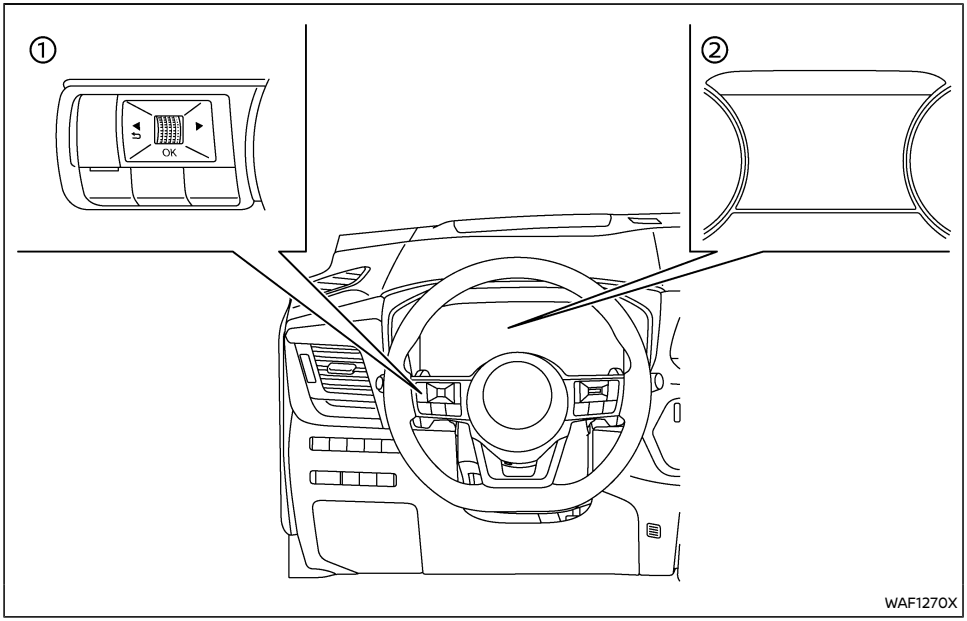
When the vehicle moves closer to an obstacle, the parking sensor indicator (detected area) appears in the vehicle information display.



Example

The parking sensor indicator also appears on the camera view of the center display (if equipped).

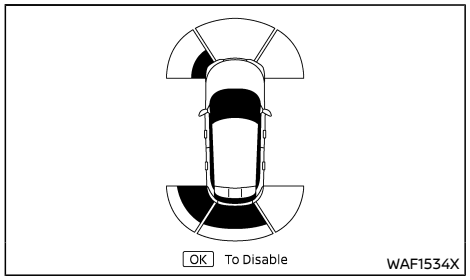
TURNING ON AND OFF THE PARKING SENSOR (sonar) FUNCTION



① Steering-wheel-mounted control (left side)

② Vehicle information display

The system is automatically activated when the ignition switch is in the "ON" position and the shift lever is in the "D" (Drive) (models with front sensors) or "R" (Reverse) position.



Example

NOTE:

When the shift lever is in the "R" (Reverse) position and the Parking Aids screen is displayed in the vehicle information display, the parking sensor (sonar) system can be disabled temporarily by pushing the scroll dial on the steering wheel.

Perform the following steps to set up the parking sensor (sonar) system function.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display and then push the scroll dial. Use the scroll dial to select "Driver Assistance." Then push the scroll dial.
2. Select "Parking Aids" and push the scroll dial.
3. Use the scroll dial to navigate in the menu and select or change an item:
   - Moving Object (if equipped)

     — Turns ON/OFF the Moving Object Detection (MOD) (See "Moving Object Detection (MOD)" (P.4-17).)
   - Display

     — Shows the parking sensor display in the vehicle information display when the

parking sensor (sonar) system activates

- Front (if equipped)
  — Turns ON/OFF the front sensors
- Rear
  — Turns ON/OFF the rear sensors
- Distance
  — Changes the sensor's detection distance to "Far", "Medium" or "Near"
- Volume
  — Changes the volume of the tone sound to "High", "Medium" or "Low"

PARKING SENSOR (sonar) SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the parking sensor (sonar) system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Read and understand the limitations of the parking sensor (sonar) system as contained in this section. Inclement weather may affect the function of the sonar system; this may include reduced performance or a false activation.**
- **The parking sensor (sonar) system is deactivated at speeds above 10 km/h (6 MPH). It is reactivated at lower speeds.**
- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes or a pneumatic drill may affect the function of the parking sensor (sonar) system; this may include reduced performance or a false activation.**
- **The parking sensor (sonar) system is not designed to prevent contact with small or moving objects. Always move slowly. The system will not detect small objects below the bumper or on the ground.**
- **The parking sensor (sonar) system may not detect the following objects: fluffy objects such as snow, cloth, cotton, glass-wool, etc.; thin objects such as rope, wire and chain, etc.; or wedge-shaped objects; complex-shaped objects or multiple objects in close.**
- **The parking sensor (sonar) system may not detect objects at speed above 5 km/h (3 MPH) and may not detect certain angular or moving objects.**
- **The parking sensor (sonar) system may not detect the following objects:**
  — Pedestrians who approach the vehicle from the side
  — Objects placed next to the vehicle
- **The parking sensor (sonar) system may not operate in the following conditions:**
  — When rain, snow, ice, dirt, etc. adheres to the parking sensor.
  — When a loud sound is heard in the area around the vehicle.
  — When the surface of the obstacle is diagonal to the front or rear of the vehicle.
  — When a parking sensor or the area around the sensor is extremely hot or cold.
- **The parking sensor (sonar) system may unintentionally operate in the following conditions:**
  — When there is overgrown grass in the area around the vehicle.
  — When there are bumps, protrusions or manhole covers on the road surface.
  — When the vehicle drives through a draped flag or a curtain.
  — When there is an accumulation of snow or ice behind the vehicle.
  — When driving on a steep hill.

SYSTEM TEMPORARILY UNAVAILABLE

When parking sensor blockage is detected, the system will be deactivated automatically.

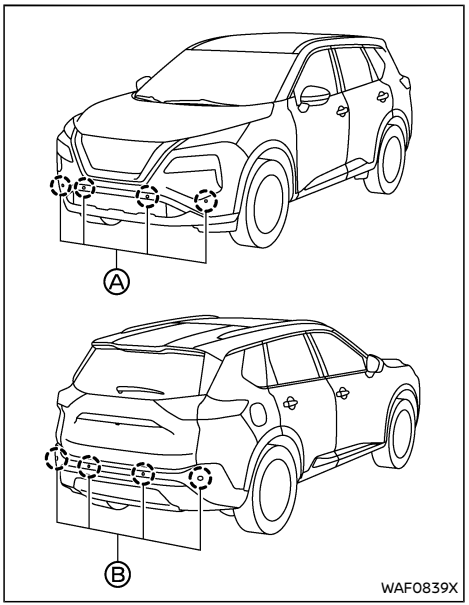
The system is not available until the conditions no longer exist.

The parking sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the parking sensors.

Action to take:

When the above conditions no longer exist, the system will resume automatically.

SYSTEM MAINTENANCE



The parking sensors Ⓐ (if equipped) and Ⓑ are located on the bumpers.

- Always keep the area near the sensors clean.
- If the sensors are dirty, wipe them off with a soft cloth while being careful to not damage them.
- The sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the sensors. Check for and remove objects obstructing the area around the sensors.
- Do not subject the area around the sensors to strong impact. Also, do not remove or disassemble the sensors. If the sensors and peripheral areas are deformed in an accident, etc., have the sensors checked. It is recommended that you visit a NISSAN dealer for this service.
- Do not attach stickers (including transparent material), install accessories or apply additional paint on the sensors and their surrounding areas. This may cause a malfunction or improper operation.
- When washing the vehicle using a high-pressure washer, do not apply direct washer pressure on the sensors. This may cause a malfunction of the sensors.

COLD WEATHER DRIVING

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole, or use the Intelligent Key system.

ANTI-FREEZE

In the winter when it is anticipated that the outside temperature will drop below 0°C (32°F), check the anti-freeze to assure proper winter protection. For additional information, see "Engine cooling system" (P.8-7) or "Intercooler cooling system" (P.8-8).

BATTERY

If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, see "Battery" (P.8-18).

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without anti-freeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see "Engine cooling system" (P.8-7).

TIRE EQUIPMENT

1. If you have snow tires installed on the front/rear wheels of your vehicle, they should be of the same size, loading range, construction and type (bias, bias-belted or radial) as the rear/front tires.
2. If the vehicle is to be operated in severe winter conditions, snow tires should be installed on all four wheels.

3. For additional traction on icy roads, studded tires may be used. However, some countries, provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.

   Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

4. Snow chains may be used if desired. Make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's instructions. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chains must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. In addition, drive at a reduced speed, otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

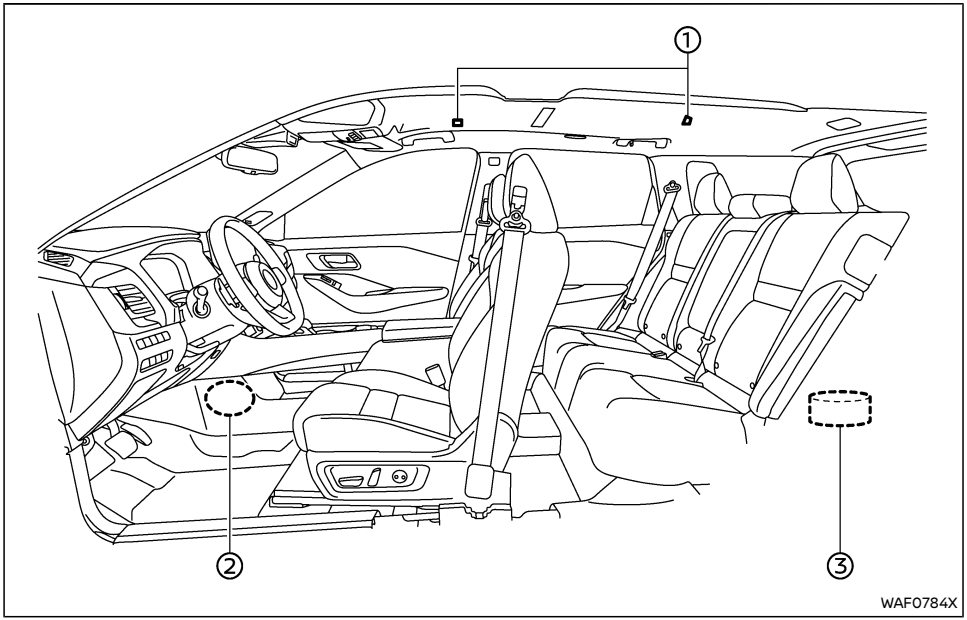
- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE

WARNING:

- **Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.**
- **Allow greater following distances on slippery roads.**
- **Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.**
- **Do not use cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

ACTIVE NOISE CANCELLATION (if equipped)/ACTIVE SOUND ENHANCEMENT (if equipped)



Example

NOTE:

To operate the active noise cancellation and active sound enhancement system properly:

- Do not cover the speakers or woofer.
- Do not cover the microphones.
- Do not change or modify speakers including the woofer and any audio related parts such as the amplifier.
- Do not make any modification including sound deadening or modifications around the microphones, speakers or woofer.

ACTIVE NOISE CANCELLATION

The active noise cancellation uses microphones ① located inside the vehicle to detect engine booming noises. The system then automatically produces a muted engine booming noise through the speakers ② and woofer ③ to reduce engine booming noise.

If the microphones ① or the area around it is tapped, abnormal noise may be output from the speaker.

ACTIVE SOUND ENHANCEMENT

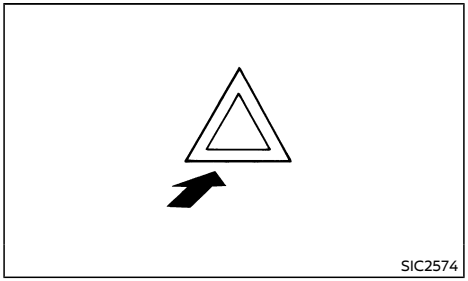
The active sound enhancement generates sounds according to engine speed and driving modes through the speakers ② and woofer ③ to enhance the quality of the engine sound.

MEMO

6 In case of emergency

Hazard warning flasher switch 6-2
Emergency Stop Signal 6-2
Emergency engine shut off 6-2
Flat tire 6-3
Tire Pressure Monitoring System (TPMS) (if equipped) 6-3
Changing a flat tire (models with spare tire) 6-3
Repairing flat tire (models with emergency tire puncture repair kit) 6-8
Jump starting 6-12
Push starting 6-15
If your vehicle overheats 6-15
Towing your vehicle 6-16
Towing recommended by NISSAN 6-17

HAZARD WARNING FLASHER SWITCH


SIC2574

The hazard indicator flasher switch operates regardless of the ignition switch position except when the battery is discharged.

The hazard indicator flasher is used to warn other drivers when you have to stop or park under emergency conditions.

When the hazard indicator flasher switch is pushed, all turn signal lights will flash. To turn off the hazard indicator flasher, push the hazard indicator flasher switch again.

When an impact that could activate the supplemental air bags is detected, the hazard warning flasher lights blink automatically.

WARNING:

Do not turn the hazard warning flasher switch to off until you can make sure that it is safe to do so. Also, the hazard flasher warning may not blink automatically depending on the force of impact.

If the hazard warning flasher switch is pushed, the hazard warning flashers will turn off.

EMERGENCY STOP SIGNAL

The Emergency Stop Signal will blink the stop lights and high-mounted stop light to prevent the rear-end collision, when a sudden braking operation is detected.

The Emergency Stop Signal operates in the following conditions:

- When the vehicle speed is above 60 km/h (37 MPH)
- When the system detects a sudden braking while the foot brake is applied

The Emergency Stop Signal will not operate in the following conditions:

- When the hazard indicator flasher operates
- When the system does not detect a sudden braking

EMERGENCY ENGINE SHUT OFF

To shut off the engine in an emergency situation while driving, perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times in less than 1.5 seconds, or
- Push and hold the push-button ignition switch for more than 2 seconds.

TIRE PRESSURE MONITORING SYSTEM (TPMS) (if equipped)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare (if equipped). When the low tire pressure warning light is lit, and the "Low Tyre Pressure" warning message is displayed in the vehicle information display, one or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 25 km/h (16 MPH). For more details, see "Warning lights, indicator lights and audible reminders" (P.2-13) and "Tire Pressure Monitoring System (TPMS)" (P.5-7).

WARNING:

- **If the low tire pressure warning light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the tire placard to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire (if equipped) or repair it using the emergency tire puncture repair kit (if equipped) as soon as possible.**
- **Since the spare tire (if equipped) is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after the 1 minute. Contact a NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors (models without emergency tire puncture repair kit).**
- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure. Visit a NISSAN dealer as soon as possible after using tire repair sealant (models with emergency tire puncture repair kit).**

CHANGING A FLAT TIRE (models with spare tire)

WARNING:

- **Be sure to apply the parking brake firmly.**
- **Be sure to press the park button to engage the "P" (Park) position.**
- **Never change tires when the vehicle is on a slope, ice or slippery area. This is hazardous.**
- **Never change tires when the oncoming traffic is close to your vehicle. Call for professional road assistance.**

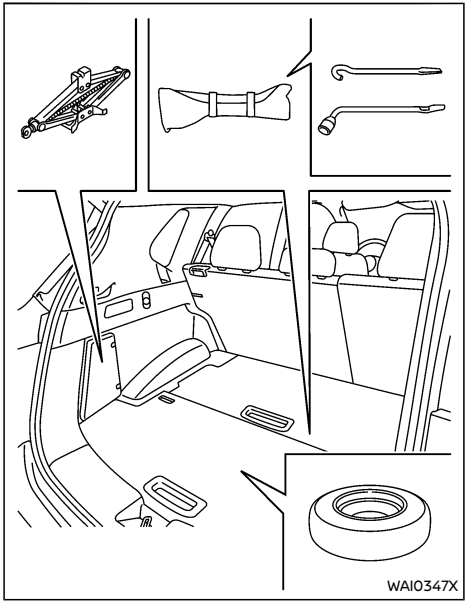
Stopping vehicle

WARNING:

- **Make sure the parking brake is securely applied and the vehicle is placed into the "P" (Park) position.**
- **Never repair tires when the vehicle is on a slope, ice or slippery area. This is hazardous.**
- **Never repair tires when the oncoming traffic is close to your vehicle. Call for professional road assistance.**

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard indicator flasher lights.
3. Park on a level surface.
4. Apply the parking brake.
5. Push the park button to shift to the "P" (Park) position.
6. Place the ignition switch in the "OFF" position.
7. Open the hood and set up the warning triangle (if equipped):
   - To warn other traffic.
   - To signal professional road assistance personnel that you need assistance.
8. Have all passengers get out from the vehicle and stand in a safe place, away from other traffic and clear of the vehicle.

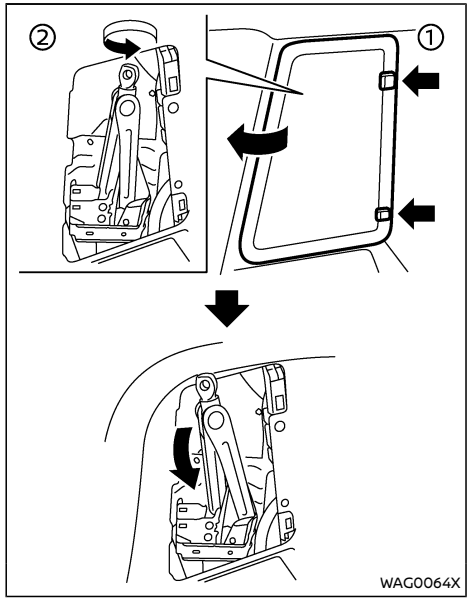
Preparing tools



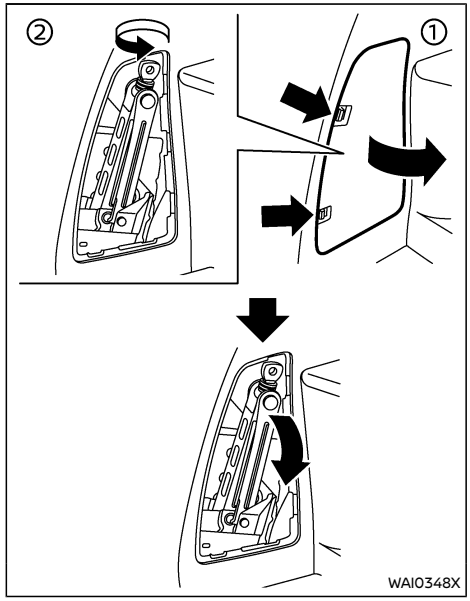
Model with adjustable luggage floor

Open the back door. Raise the luggage floor board. Remove the jacking tools.

The tools in the bag may vary depending on the vehicle's specifications. The illustration is an example.



Two row model



Three row model

To remove the jack:

1. Remove the storage door by pressing the two release tabs simultaneously.
2. Turn the jack lever in a counter-clockwise direction, and then remove the jack slowly.

When storing the jack, set the jack slowly back, then turn the jack lever in a clockwise direction until the jack is fixed.

CAUTION:

- **Do not touch floor metal directly. Doing so could result in any burns.**
- **When removing the jack, be careful that your hands do not hit against the vehicle. Otherwise, this could result in personal injury.**

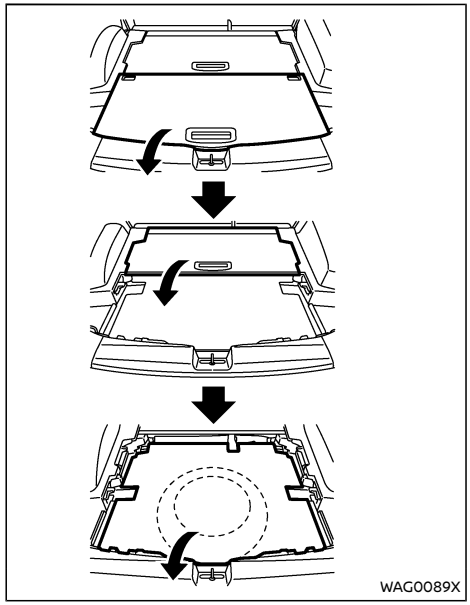
NOTE:

- **When storing the jack, do not overtighten the jack lever using a screw driver. Doing so could cause deformation of the installation area for the jack.**
- **Do not allow the jack to contact the interior parts. Doing so could cause damage to the vehicle.**

Removing the spare tire and tools

The spare tire and tools are located under the luggage board(s).

Two row model:



Models with adjustable luggage floor

To access the storage area:

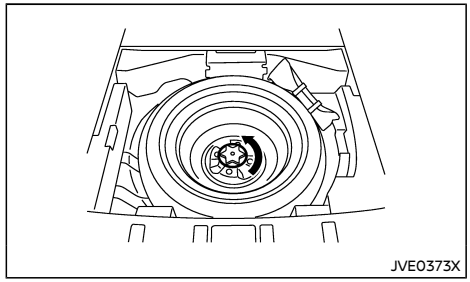
1. Remove the luggage floorboard(s).

   Models with the adjustable luggage floor: Release the locks (if equipped) before removing the rear (outer) luggage board. (See "Adjustable luggage floor" (P.2-71) for details.)

   Models with the single luggage board: Disengage the retainer pins (if equipped).

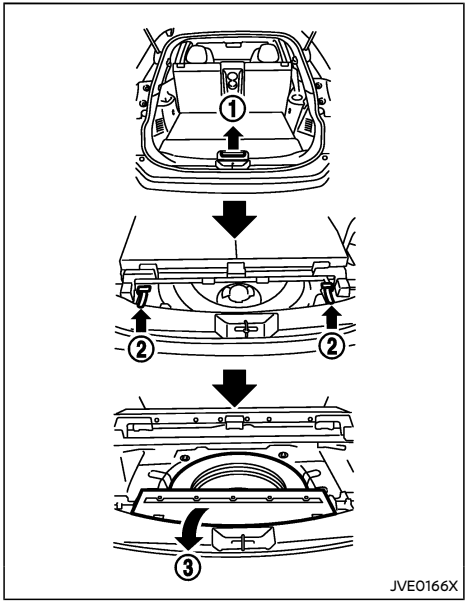
2. Remove the floor carpet (if equipped).

Take out the tools from the tool bag.



Remove the spare tire by removing the clamp holding it.

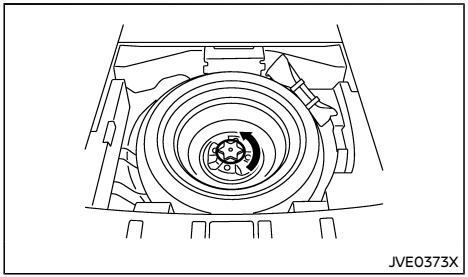
Three row model:



Fold the third row seats flat and then remove the luggage board ①. For folding the third row seats, see "Third row seats" (P.1-8).

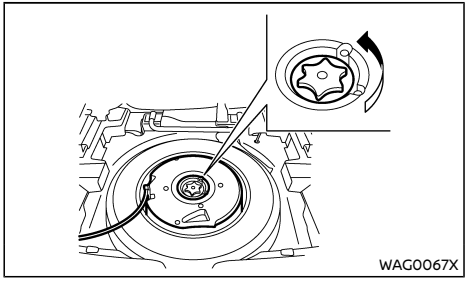
Pull the straps ② to raise the seat.

Remove the cover ③. Take out the tools from the tool bag.



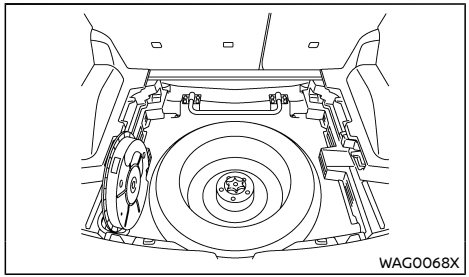
Remove the spare tire by removing the clamp holding it.

Removing the spare tire with sub-woofer (if equipped)



Example

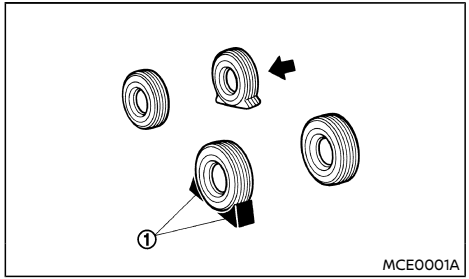
1. To loosen the bolt, turn counterclockwise.
2. Once loosened, remove the bolt.



Example

3. Place the sub-woofer in the left corner of the cargo space.
4. Remove the spare tire.
5. Once the flat tire is exchanged with the spare tire, store the flat tire where the spare was located.
6. Place the sub-woofer inside the flat tire.
7. Turn the bolt clockwise to tighten.

Blocking wheels



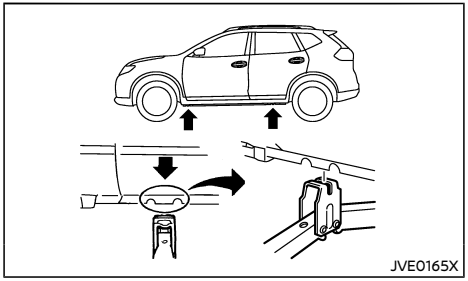
WARNING:

Be sure to block the appropriate wheel to prevent the vehicle from moving, which may cause personal injury.

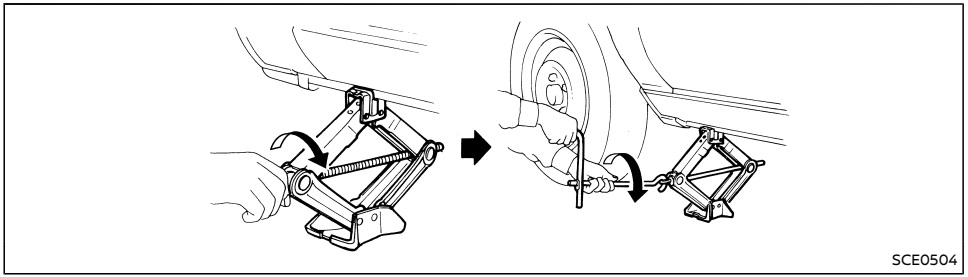
Place suitable blocks ① at both the front and back of the wheel diagonally opposite the flat tire ⬅ to prevent the vehicle from moving when it is jacked up.

Removing tire

Jacking up vehicle:



jack-up points



WARNING:

- **Be sure to read and follow the instructions in this section.**
- **DO NOT GET UNDER A VEHICLE THAT IS SUPPORTED BY A JACK.**
- **Never use a jack which was not provided with your vehicle.**
- **The jack, which is provided with your vehicle, is designed only to lift your vehicle during a tire change. Do not use the jack provided with your vehicle on other vehicles.**
- **Never jack up the vehicle at a location other than the jack-up point that is specified.**
- **Never lift the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Never start the vehicle while the vehicle is on the jack. The vehicle may move suddenly, and this may cause an accident.**
- **Never allow passengers to remain in the vehicle while the tire is off the ground.**
- **Be sure to read the caution label attached to the jack body before using.**
- **When jacking up the vehicle, be sure to apply the parking brake.**

1. Place the jack directly under the jack-up point as illustrated so that the top of the jack contacts the vehicle at the jack-up point.

   The jack should be placed on firm level ground.
2. Align the jack head between the two notches located at the jack-up point of either the front or the rear section.
3. Fit the groove of the jack head between the notches as shown.
4. Loosen each wheel nut, counterclockwise, one or two turns with the wheel nut wrench.

   Do not remove the wheel nuts until the tire is off the ground.
5. Carefully raise the vehicle until the clearance between the tire and ground is achieved.

6. To lift the vehicle, securely hold the jack lever and rod with both hands and turn the jack lever.

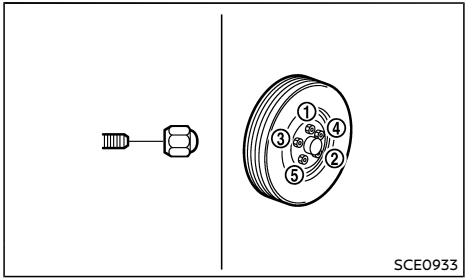
Removing tire:

1. Remove the wheel nuts.
2. Remove the damaged tire.

CAUTION:

The tire is heavy. Be sure that your feet are clear from the tire and use gloves as necessary to avoid injury.

Installing tire



WARNING:

- **Never use wheel nuts which are not provided with your vehicle. Incorrect wheel nuts or improperly tightened wheel nuts may cause the wheel to become loose or come off. This could cause an accident.**
- **Never use oil or grease on the wheel studs or nuts. This may cause the wheel nuts to become loose.**
- **The T-type spare tire (if equipped) is designed for emergency use only.**

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the tire on and tighten the wheel nuts with your fingers. Check that all the wheel nuts contact the wheel surface horizontally.
3. Tighten the wheel nuts alternately and evenly, more than 2 times in the sequence illustrated (① - ⑤), with the wheel nut wrench, until they are tight.
4. Lower the vehicle slowly until the tire touches the ground.
5. Tighten the wheel nuts securely, with the wheel nut wrench, in the sequence illustrated.
6. Lower the vehicle completely.

Tighten the wheel nuts to the specified torque with a torque wrench as soon as possible.

Wheel nut tightening torque:
108 N·m (11 kg-m, 80 ft-lb)

The wheel nuts must be kept tightened to specification at all times. It is recommended that the wheel nuts be tightened to specification at each lubrication interval.

- After adjusting the tire pressure, the TPMS (if equipped) must be reset (model with TPMS reset function). (See "Tire Pressure Monitoring System (TPMS)" (P.5-7) for details about the resetting procedure.)
- After adjusting tire pressure to the COLD tire pressure, the display of the tire pressures may show higher pressure than the COLD tire pressure after the vehicle has been driven more than 1.6 km (1 mile). This is because the tire pressurizes as tire temperature rises. This does not indicate a system malfunction.

Stowing damaged tire and tools

WARNING:

Be sure that the tire, jack and tools used are properly stored after use. Such items can become dangerous projectiles in an accident or sudden stop.

1. Securely store the damaged tire, jack and tools used in the storage area.
2. Replace the luggage floor board.
3. Close the back door.

REPAIRING FLAT TIRE (models with emergency tire puncture repair kit)

The emergency tire puncture repair kit is supplied with the vehicle instead of a spare tire. This repair kit must be used for temporarily fixing a minor tire puncture. After using the repair kit, see a NISSAN dealer as soon as possible for tire inspection and repair/replacement.

CAUTION:

- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure.**
- **Do not use the emergency tire puncture repair kit provided with your vehicle on other vehicles.**
- **Do not use the emergency tire puncture repair kit for a purpose other than to inflate and check the tire pressure for the**

vehicle.

- **Use the emergency tire puncture repair kit only on DC12V.**
- **Keep water and dust off the emergency tire puncture repair kit.**
- **Do not disassemble or modify the emergency tire puncture repair kit.**
- **Do not galvanize the emergency tire puncture repair kit.**
- **Do not use the emergency tire puncture repair kit under the following conditions. Contact a NISSAN dealer or professional road assistance.**

  — when the sealant has passed its expiration date (shown on the label attached to the bottle)

  — when the cut or the puncture is approximately 6 mm (0.25 in) or longer

  — when the side of the tire is damaged

  — when the vehicle has been driven with a considerable loss of air from the tire

  — when the tire is completely displaced inside or outside the rim

  — when the tire rim is damaged

  — when two or more tires are flat

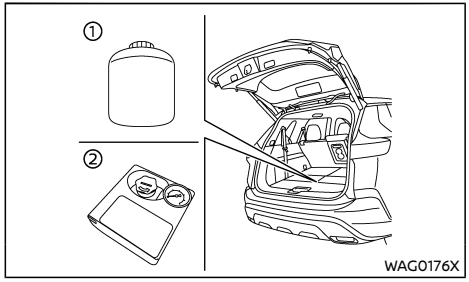
Stopping vehicle

WARNING:

- **Make sure the parking brake is securely applied and the vehicle is placed into the "P" (Park) position.**
- **Never repair tires when the vehicle is on a slope, ice or slippery area. This is hazardous.**
- **Never repair tires when the oncoming traffic is close to your vehicle. Call for professional road assistance.**

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard indicator flasher lights.
3. Park on a level surface.
4. Apply the parking brake.
5. Push the park button to shift to the "P" (Park) position.
6. Place the ignition switch in the "OFF" position.
7. Open the hood and set up the warning triangle (if equipped):
   - To warn other traffic.
   - To signal professional road assistance personnel that you need assistance.
8. Have all passengers get out from the vehicle and stand in a safe place, away from other traffic and clear of the vehicle.

Getting emergency tire puncture repair kit



Example

Take out the emergency tire puncture repair kit from the storage area under the luggage floor board. The repair kit consists of the following items:

① Tire sealant bottle

② Air compressor*

*: The compressor shape may differ depending on the models.

NOTE:

The jack, jack rod and wheel nut wrench are not equipped as standard with this vehicle. Contact a NISSAN dealer about acquiring the tools.

See "Changing a flat tire (models with spare tire)" (P.6-3) for usage of jacking tools and tire replacement.

Before using emergency tire puncture repair kit

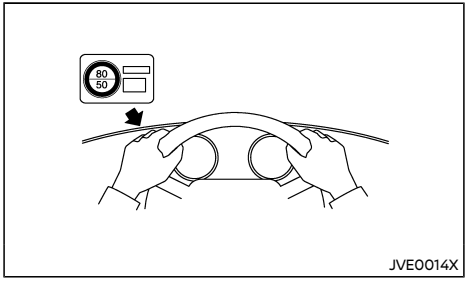
- If any foreign object (for example, a screw or nail) is embedded in the tire, do not remove it.
- Check the expiration date of the sealant (shown on the label attached to the bottle). Never use a sealant whose expiration date has passed.

Repairing tire

WARNING:

Observe the following precautions when using the emergency tire puncture repair kit.

- **Swallowing the compound is dangerous. Immediately drink as much water as possible and seek prompt medical assistance.**
- **Rinse well with lots of water if the compound comes into contact with skin or eyes. If irritation persists, seek prompt medical attention.**
- **Keep the repair compound out of the reach of children.**

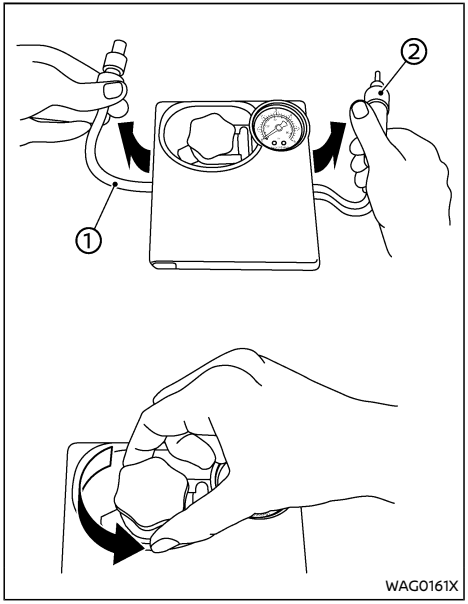


1. Take out the speed restriction sticker from the air compressor*, then put it in a location where the driver can see it while driving.

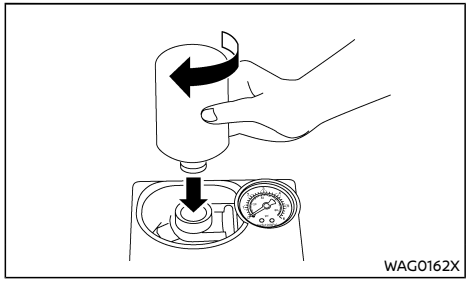
   *: The compressor shape may differ depending on the models.

CAUTION:

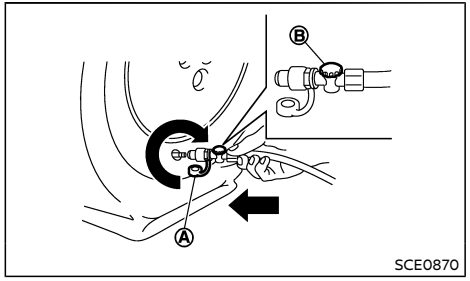
Do not put the speed restriction label on the steering wheel pad, the speedometer or the warning light locations.



2. Take the hose ① and the power plug ② out of the air compressor. Remove the cap of the bottle holder from the air compressor.

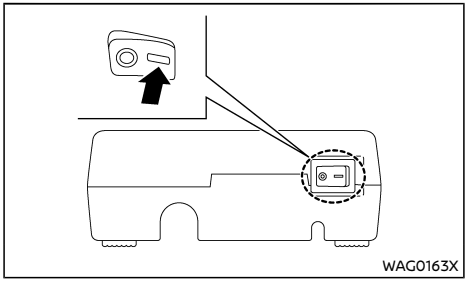


3. Remove the cap of the tire sealant bottle, and screw the bottle clockwise onto the bottle holder. (Leave the bottle seal intact. Screwing the bottle onto the bottle holder will pierce the seal of the bottle.)
4. Remove the cap of the tire valve on the flat tire.



5. Remove the protective cap Ⓐ of the hose and screw the hose securely onto the tire valve. Make sure that the pressure release valve Ⓑ is securely tightened. Make sure

that the air compressor switch is in the OFF (○) position, and then insert its power plug into the power outlet in the vehicle.



6. Place the ignition switch in the "ON" position. Then turn the compressor switch to the ON (–) position and inflate the tire up to the pressure that is specified on the tire placard affixed to the driver's side center pillar if possible, or to the minimum of 180 kPa (26 psi). Turn the air compressor off briefly in order to check the tire pressure with the pressure gauge.

   If the tire is inflated to higher than the specified pressure, adjust the tire pressure by releasing air with the pressure release valve. The cold tire pressures are shown on the tire placard affixed to the driver's side center pillar.

CAUTION:

- **An incomplete connection between the hose and tire valve causes air leakage or sealant scatter.**
- **Do not stand directly beside the damaged tire while it is being inflated because of the risk of the rupture. If there are any cracks or bumps, turn the compressor off immediately.**
- **There is a possibility that the pressure reaches 600 kPa (87 psi) while the tire is being inflated, but it is normal condition. Usually the pressure will drop in about 30 seconds.**
- **Do not operate the compressor for more than 10 minutes.**

  If the tire pressure does not increase to **180 kPa (26 psi) within 10 minutes**, the tire may be seriously damaged and **the tire cannot be repaired with this tire puncture repair kit.** Contact a NISSAN dealer.

7. When the tire pressure is reaching the specified pressure or is at the minimum of 180 kPa (26 psi), turn the air compressor off. Remove the power plug from the power outlet and quickly remove the hose from the tire valve. Attach the protective cap and valve cap.

CAUTION:

Leave the tire sealant bottle on the bottle holder in order to prevent sealant from spilling out.

8. Immediately drive the vehicle for 10 minutes or 3 km (2 miles) at a speed of 80 km/h (50 MPH) or less.
9. After driving, make sure that the air compressor switch is in the OFF (○) position, then screw the hose securely onto the tire valve. Check the tire pressure with the pressure gauge.

If the tire pressure drops under 130 kPa (19 psi):

The tire cannot be repaired with this tire puncture repair kit. Contact a NISSAN dealer.

If the tire pressure is 130 kPa (19 psi) or more but less than the specified pressure:

Turn the compressor switch to the ON (—) position and inflate the tire up to the specified pressure. Then repeat the steps from 8.

If the pressure drops again, **the tire cannot be repaired with this tire puncture repair kit.** Contact a NISSAN dealer.

When the tire pressure is the specified pressure:

The temporary repair is completed.

See a NISSAN dealer for tire repair/replacement as soon as possible.

CAUTION:

Do not reuse the tire sealant bottle or the hose.

For a new tire sealant bottle and hose, see a NISSAN dealer.

After repairing tire

See a NISSAN dealer for tire repair/replacement as soon as possible.

JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

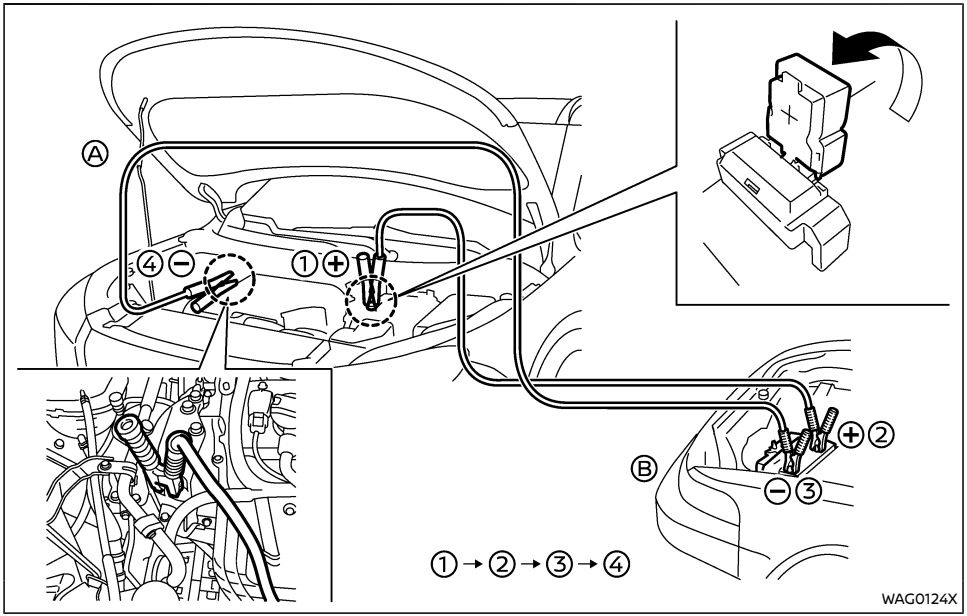
WARNING:

- **If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.**
- **Keep the battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.**

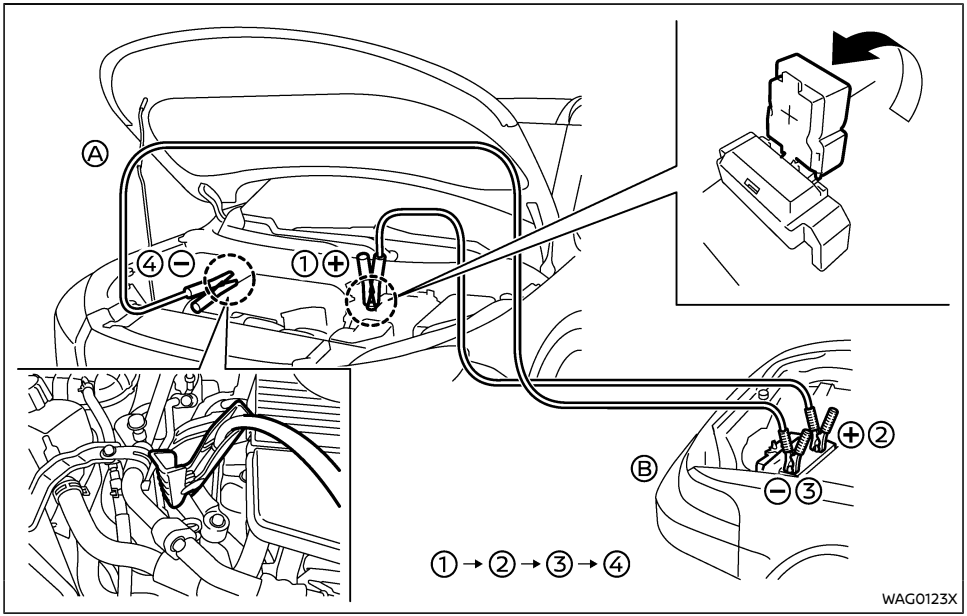
For models with Stop/Start System or Idling Stop System:

The vehicle has 2 batteries, a 12-volt battery (main) and a Lithium ion (Li-ion) battery (auxiliary). The engine cannot be started if the main battery is discharged. Apply the following procedure to the main battery to jump start the engine.

When connecting the jumper cables, it is required to use the booster vehicle equipped with the 12-volt battery. If the cables are connected to the battery at the rate of more than 12 volts, the vehicle may be damaged when the cables are connected incorrectly.



PR25DD engine



KR15DDT engine

WARNING:

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle Ⓑ, position the two vehicles (Ⓐ and Ⓑ) to bring their batteries into close proximity to each other.

   Do not allow the two vehicles to touch.

2. Apply the parking brake.
3. Push the park button to engage the "P" (Park) position.
4. Switch off all unnecessary electrical systems (headlights, heater, air conditioner, etc.).
5. Connect jumper cables in the sequence as illustrated (① → ② → ③ → ④).

CAUTION:

- **Always connect positive (+) to positive (+) and negative (–) to body ground (for example, as illustrated), not to the battery.**
- **Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.**

6. Start the engine of the booster vehicle Ⓑ and let it run for a few minutes.
7. Keep the engine speed of the booster vehicle Ⓑ at about 2,000 rpm, and start the engine of the vehicle Ⓐ being jump started.

CAUTION:

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, place the ignition switch in the "OFF" position and wait 10 seconds before trying again.

8. After starting your engine, carefully disconnect the negative cable and then the positive cable (④ → ③ → ② → ①).

NOTE:

For model with Stop/Start System or Idling Stop System, use the special 12-volt battery (main battery) that is enhanced in regard to the charge-discharge capacity and life performance. Avoid using a non-special battery for this vehicle as this may cause early deterioration of the battery or a malfunction of the Stop/Start or Idling Stop and the Smart simple hybrid systems. For the battery, it is recommended to use Genuine

NISSAN parts. For more information, contact a NISSAN dealer.

PUSH STARTING

Do not attempt to start the engine by pushing.

CAUTION:

- **Continuously Variable Transmission (CVT) models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.**
- **Three-way catalyst equipped models should not be started by pushing since the three way catalyst may be damaged.**
- **Never try to start the vehicle by towing it; when the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.**

IF YOUR VEHICLE OVERHEATS

WARNING:

- **Never continue driving if your vehicle overheats. Doing so could cause a vehicle fire.**
- **Never open the hood if steam is coming out.**
- **Never remove the radiator or coolant reservoir cap while the engine is hot. If the radiator or coolant reservoir cap is removed when the engine is hot, pressurized hot water will spurt out and possibly cause burning, scalding or serious injury.**
- **If steam or coolant is coming from the engine, stand clear of the vehicle to prevent getting burned.**
- **The engine cooling fan will start at anytime when the coolant temperature exceeds preset degrees.**
- **Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or to get caught in the cooling fan or drive belts.**

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc., take the following steps:

1. Move the vehicle safely off the road and apply the parking brake.
2. Push the park button to shift to the "P" (Park) position.

   Do not stop the engine.
3. Turn off the air conditioner. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.

4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator or coolant reservoir before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
5. Open the engine hood.

WARNING:

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check the drive belt for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking or the cooling fan does not run, stop the engine.

WARNING:

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time.

7. After the engine cools down, check the coolant level in the reservoir with the engine running. Add coolant to the reservoir if necessary. Have your vehicle repaired by a NISSAN dealer.

When towing your vehicle, local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends that you have professional road assistance personnel tow your vehicle. It is advisable to have the professional road assistant carefully read the following precautions.

WARNING:

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

CAUTION:

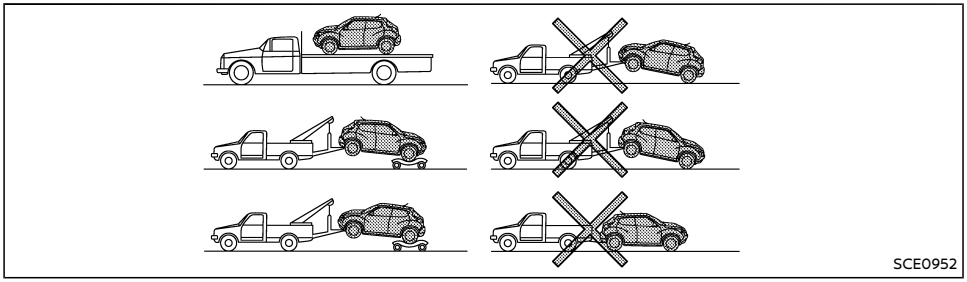
- **When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any of these conditions apply, dollies or a flatbed tow truck must be used.**
- **Always attach safety chains before towing.**

NOTE:

If the battery is completely drained, the transmission will not manually shift to other positions. For shifting to other positions, charge the battery or supply power following the jump starting procedure. Push the park button to shift to the "P" (Park) position before shifting to other positions.

TOWING RECOMMENDED BY NISSAN

Towing Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) model

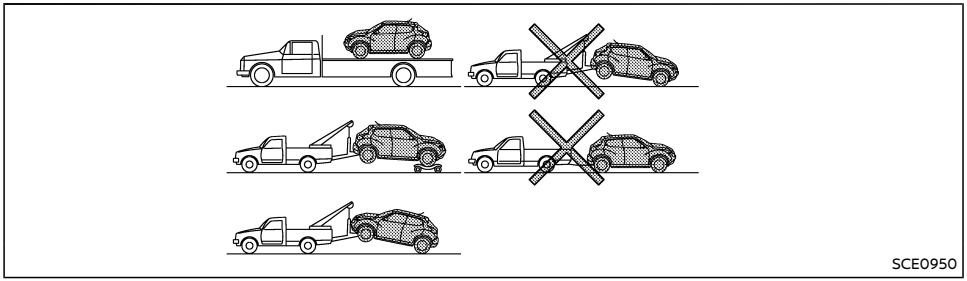


NISSAN recommends that towing dollies be used when towing your vehicle or the vehicle be placed on a flat bed truck as illustrated.

CAUTION:

Never tow Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) models equipped with a Continuously Variable Transmission (CVT) with any of the wheels on the ground as this may cause serious and expensive damage to the transfer case and transmission.

Two-Wheel Drive (2WD) models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NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.

NOTE:

If the electronic parking brake is released, the rear wheels can be grounded while towing. If the electronic parking brake is not released, towing dollies should be used. For additional information, refer to "Parking brake" (P.3-36).

CAUTION:

Never tow CVT models with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised, always use towing dollies under the front wheels.

Freeing trapped vehicle

WARNING:

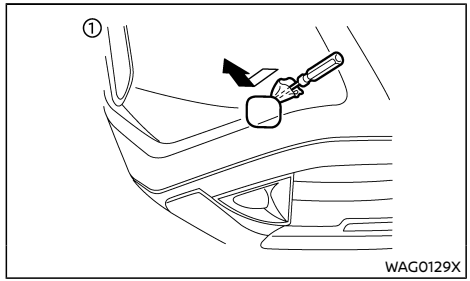
- **Never allow anyone to stand near the towing line during the pulling operation.**
- **Never spin the tires at high speed. This could cause them to explode and result in serious injury. Parts of the vehicle could also overheat and be damaged.**

In the event that your vehicle's tires become trapped in sand, snow, or mud, and the vehicle is unable to free itself without being pulled, use the recovery hook.

- Use the recovery hook only. Do not attach the pulling device to any other part of the vehicle body. Otherwise, the vehicle body may be damaged.
- Use the recovery hook to free a vehicle only.
- The recovery hook is under tremendous stress when used to free a trapped vehicle. Always pull the pulling device straight out from the vehicle. Never pull on the recovery hook at an angle.

CAUTION:

There are two hooks in the storage area. Use the longer hook for front, and shorter hook for rear. If the different hook is used, the vehicle and the hook may be damaged.



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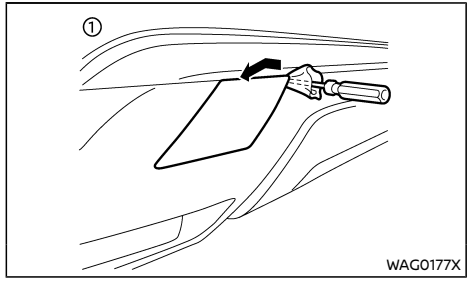
Front



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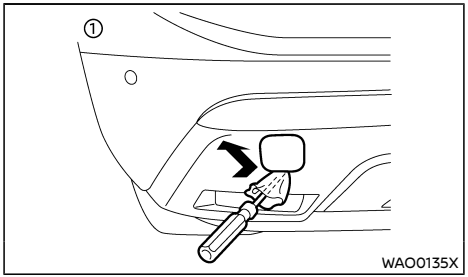
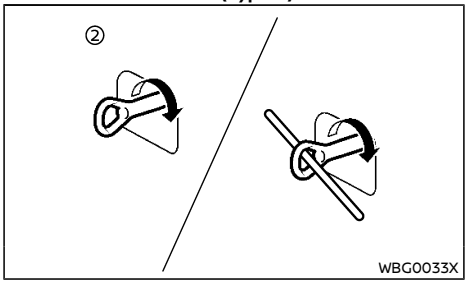
Rear (Type A)



Rear (Type B)



① Remove the hook cover from the bumper with a suitable tool.

② Securely install the recovery hook as illustrated. (The hook is stored in the storage area under the luggage board.)

Make sure that the recovery hook is properly secured in its storage area after use.

MEMO

7 Appearance and care

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CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

Whenever possible, park your vehicle inside a garage or in a covered area to minimize the chances of damaging the paint surface of your vehicle.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover. **Be careful not to scratch the paint surface when putting on or removing the body cover.**

WASHING

In the following instances, wash your vehicle as soon as possible to protect the paint surface:

- After a rainfall, which may cause the paint surface damage from acid rain.
- After driving on coastal roads, which may cause rusting from the sea breeze.
- When contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface.
- When dust or mud builds up on the paint surface.

1. Wash the vehicle surface with a wet sponge and plenty of water.
2. Clean the vehicle surface gently and thoroughly using a mild soap, a special vehicle soap or a general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

CAUTION:

- **Do not concentrate water spray directly on the parking sensors (sonar) on the bumper as this will result in damage to the sensors.**
- **Do not use pressure washers capable of spraying water over 8,274 kPa (1,200 psi) to wash your vehicle. Use of high-pressure washers over 8,274 kPa (1,200 psi) can result in damage to or removal of paint or graphics. Avoid using a high-pressure washer closer than 30 cm (12 in) to the vehicle. Always use a wide-angle nozzle only, keep the nozzle moving and do not concentrate the water spray on any one area.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the paint surface may become water-spotted.**
- **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**
- **Do not wash the engine compartment. Doing so may cause a failure in engine starting or a malfunction. If water is sprinkled to the electrical parts, it may result in a short circuit and could cause a fire.**
- **Before washing the vehicle by an automatic car wash, make sure that the fuel-filler lid is completely closed.**

3. Rinse the vehicle thoroughly with plenty of clean water.
4. Use a dampened chamois to dry the paint surface and avoid leaving water spots.

When washing the vehicle, take care of the following:

- Inside flanges, joints and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be cleaned regularly.
- Be sure that the drain holes in the lower edge of the doors are not clogged.
- Spray water to the underbody and in the wheel wells to loosen the dirt and/or wash away road salt.

BADGES, STRIPES OR GRAPHICS (if equipped)

To maintain the premium anodized finish of personalized stickers, stripes and graphics on your vehicle, please observe the following care points:

- Only hand wash the surface, using PH neutral detergents.
- Do not use an automatic car wash.
- Do not use chemical agents (abrasive products, polishes, gasoline, wax, protective products, corrosive solvents, etc.).
- Wash your vehicle as soon as you can if any insects, bird droppings, soot or metallic particles appear on the paint surface.
- The anodized finish may deteriorate if it is touched by bare hands or marked by road oil (tar, etc.). Wash any dirt off the vehicle with a wet microfiber cloth and plenty of clean water.
- Avoid parking your vehicle under trees and remove any tree sap as soon as possible.
- Gently wash stickers using a clean sponge. Do not use a pressure washer.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at a NISSAN dealer or any automotive accessory store.

WAXING

Regular waxing protects the paint surface and helps maintain a new vehicle appearance.

After waxing, polishing is recommended to remove built-up residue and to avoid a weathered appearance.

A NISSAN dealer can assist you in choosing the appropriate waxing products.

CAUTION:

- **Wash your vehicle thoroughly and completely before applying wax to the paint surface.**
- **Always follow the manufacturer's instructions supplied with the wax.**
- **Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.**

Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

UNDERBODY

In areas where road salt is used in the winter, it is necessary to clean the vehicle's underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension.

Before the winter and again in the spring, the underseal must be checked and, if necessary, re-treated.

WHEELS

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. This may cause loss of pressure or damage the tire bead.
- NISSAN recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

ALUMINUM ALLOY WHEELS

Wash the wheels regularly with a sponge dampened in a mild soap solution, especially during winter in areas where road salt is used. The salt residue from road salt could discolor the wheels if it is not washed off regularly.

CAUTION:

Follow the directions below to avoid staining or discoloring the wheels:

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

CLEANING INTERIOR

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a soft cloth dampened only with water to clean the meter and gauge lens covers.

WARNING:

For model with front passenger air bag status light:

Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor. This can also affect the operation of the air bag system and result in serious personal injury.

CAUTION:

- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they damage the leather natural finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens covers.**
- **Do not spill on or make contact with interior surfaces while handling air fresheners, aroma agents, cosmetics, sunscreen, etc. They may cause permanent discoloration, stain, crack, paint peeling, etc. depending on the ingredients. If they contact the interior surface, wipe them off immediately using a soft cloth.**
- **Do not use the chlorine-based cleaning liquid such as chlorine dioxide and hypochlorous acid, which may cause the paint peeling, corrosion, etc. If it is unavoidable to clean or sterilize interior surfaces, use less than 75% ethanol. Wipe the interior parts with a dry cloth dampened with ethanol. Wipe off ethanol completely. If you leave it uncleaned, it may cause paint peeling, discoloration, etc. Since ethanol is flammable, be careful of fire.**

AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

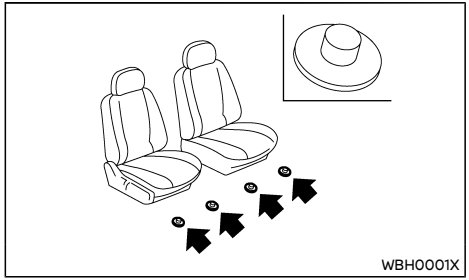
- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using air fresheners.

FLOOR MATS

The use of Genuine NISSAN floor mats (if equipped) can extend the life of your vehicle carpet and make it easier to clean the interior. Regardless of what mats are used, be sure they are fitted for your vehicle and are properly positioned in the foot well to prevent interference with pedal operation. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

Floor mat positioning aid



This vehicle includes front floor mat brackets to act as a floor mat positioning aid. Genuine NISSAN floor mats have been specially designed for your vehicle model.

Position the mat by placing the floor mat bracket hook(s) through the floor mat grommet hole while centering the mat in the foot area.

Push the grommet hole into the hook firmly and secure it.

Periodically check that the mats are properly positioned.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

CAUTION:

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, such as rear window defogger elements.

SEAT BELTS

WARNING:

- **Do not allow wet seat belts to roll up in the retractor.**
- **Never use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.**

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution.

Allow the belts to dry completely in the shade before using them. (See "Seat belts" (P.1-12).)

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to the paint surface and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE RATE OF CORROSION

Moisture

The accumulation of sand, dirt and water on the inside floor of the vehicle can accelerate corrosion. Wet floor carpet/floor mats will not dry completely inside the vehicle. They should be removed and completely dried to avoid floor panel corrosion.

Relative humidity

Corrosion will be accelerated in areas of high relative humidity.

Temperature

High temperatures accelerate the rate of corrosion to those parts which are not well ventilated.

Corrosion will also be accelerated in areas where the temperatures stay above freezing.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint surface and if any exists, repair it as soon as possible.
- Keep the drain holes in the lower edge of the doors open to avoid water accumulation.
- Check the vehicle underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

CAUTION:

- **Never remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface deicing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In the winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

MEMO

8 Maintenance and do-it-yourself

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MAINTENANCE REQUIREMENTS

Some day-to-day and regular maintenance is essential to maintain your vehicle's good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that the specified maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care.

GENERAL MAINTENANCE

General maintenance includes those items which should be checked during normal day-to-day operation of the vehicle. They are essential if your vehicle is to continue to operate properly. It is your responsibility to perform these procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks and inspections can be done by yourself, a qualified technician, or if you prefer, a NISSAN dealer.

SCHEDULED MAINTENANCE

For your convenience, the required scheduled maintenance items are described and listed in a separate Warranty Information and Maintenance booklet. You must refer to that booklet to ensure that necessary maintenance is performed on your vehicle at regular intervals.

WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and tuned by an authorized NISSAN dealer.

GENERAL MAINTENANCE

During normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smells, be sure to check for the cause or have a NISSAN dealer do it promptly. In addition, you should notify a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe "Maintenance precautions" (P.8-4).

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Additional information on the following items with "*" is found later in this section.

Outside vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and hood:

Check that all doors and the hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.

Lights*:

Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check the aim of the headlights.

Tires*:

Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified.

Check carefully for damage, cuts or excessive wear.

Tire rotation*:

In the case that Two-Wheel Drive (2WD) and front and rear tires are same size; tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed.

In the case that Four-Wheel Drive and All Wheel Drive (4WD/AWD) and front and rear tires are same size; tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed.

In the case that front tires are different size from rear tires; tires cannot be rotated.

The timing for tire rotation may vary according to your driving habits and the road surface conditions.

Tire Pressure Monitoring System (TPMS) tire pressure sensor (if so equipped):

It is recommended that you replace the tire pressure sensor assembly when the tires are replaced due to wear or age.

Wheel alignment and balance:

If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

Windshield:

Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.

Wiper blades*:

Check for cracks or wear if not functioning correctly. Replace as necessary.

Inside vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Accelerator pedal:

Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.

Brake pedal*:

Check the pedal for smooth operation and make sure that it is the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.

Parking brake*:

Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjusted, it is recommended you visit a NISSAN dealer for this service.

Seat belts:

Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Steering wheel:

Check for changes in the steering condition, such as excessive play, hard steering or strange noises.

Warning lights and chimes:

Make sure that all warning lights and chimes are operating properly.

Windshield defogger:

Check that the air comes out of the defogger outlets properly and in good quantity when operating the heater or air conditioner.

Windshield wiper and washer*:

Check that the wipers and washer operate properly and that the wipers do not streak.

Under hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Battery (except for maintenance free batteries)*:

Check the fluid level in each cell. It should be between the UPPER and LOWER lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

Brake (and clutch) fluid level(s)*:

For Manual Transmission (MT) model; make sure that the brake and clutch fluid levels are between the MAX and MIN lines on the reservoirs.

Except for Manual Transmission (MT) model; make sure that the brake fluid level is between the MAX and MIN lines on the reservoir.

Engine coolant level*:

Check the coolant level when the engine is cold. Make sure that the coolant level is between the MAX and MIN lines on the reservoir.

Intercooler coolant level (if equipped)*:

Check the coolant level when the engine is cold. Make sure that the coolant level is between the MAX and MIN lines on the reservoir.

Engine drive belt(s)*:

Make sure that drive belt(s) is not frayed, worn, cracked or oily.

Engine oil level*:

Check the level after parking the vehicle (on a level ground) and turning off the engine.

Fluid leaks:

Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for cause and have it corrected immediately.

Window washer fluid*:

Check that there is adequate fluid in the reservoir.

MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

WARNING:

- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Push the park button to shift to the "P" (Park) position.**
- **Be sure the ignition switch is in the "OFF" position when performing any parts replacement or repairs.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.**
- **Keep smoking materials, flame and sparks away from fuel and the battery.**
- **On gasoline engine models with the Multiport Fuel Injection (MFI) system, the fuel filter and fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is turned off.**
- **Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition switch is in the "OFF" position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.**

CAUTION:

- **Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.**
- **Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, and engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.**

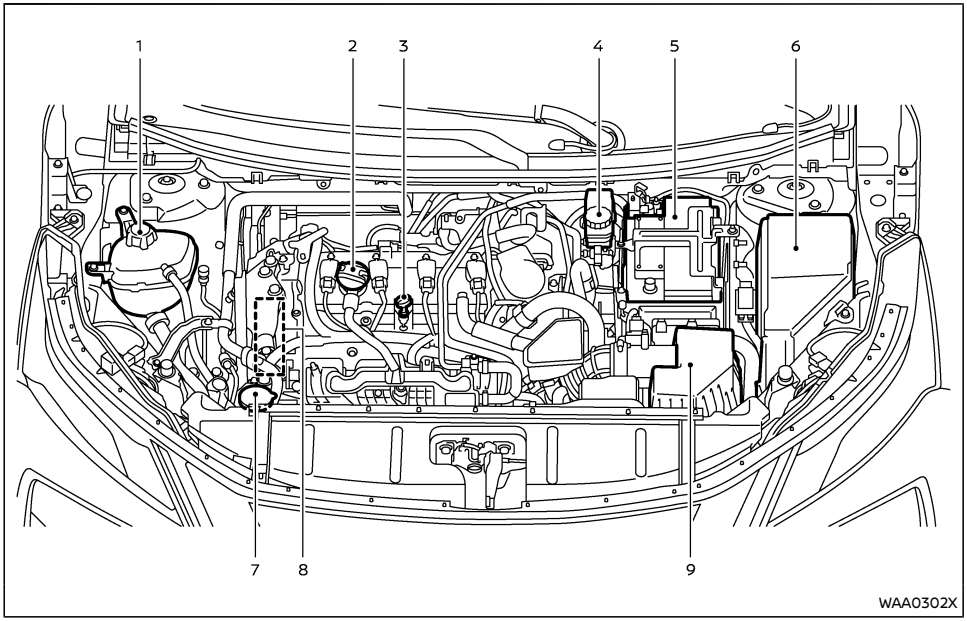
- **Never leave the engine or the CVT related component harnesses disconnected while the ignition switch is in the "ON" position.**
- **Never connect or disconnect the battery or any transistorized component while the ignition switch is in the "ON" position.**

This "8. Maintenance and do-it-yourself" section gives instructions regarding only those items which are relatively easy for an owner to perform.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in doubt about any servicing, have it done by a NISSAN dealer.**

ENGINE COMPARTMENT CHECK LOCATIONS

PR25DD ENGINE MODEL



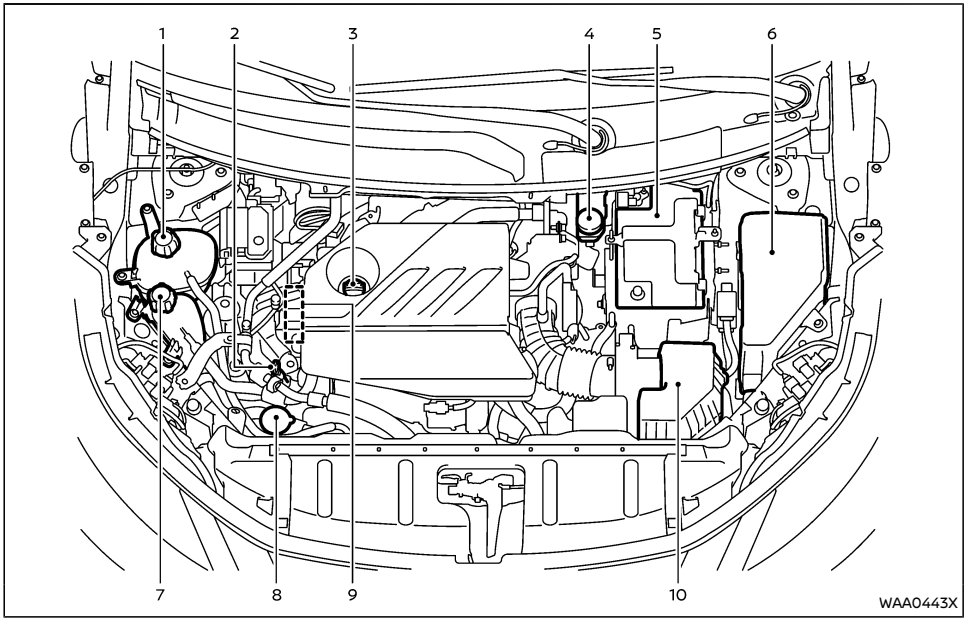
1. Engine coolant reservoir
2. Engine oil filler cap
3. Engine oil dipstick
4. Brake fluid reservoir*
5. Battery
6. Fuse/fusible link box
7. Window washer fluid reservoir
8. Drive belt
9. Air cleaner

*: The layout illustrated is for the Left-Hand Drive (LHD) models. On the Right-Hand Drive (RHD) models, the brake fluid reservoir is located on the opposite side.

NOTE:

Your vehicle may not be equipped with an engine cover.

KR15DDT ENGINE MODEL



1. Engine coolant reservoir
2. Engine oil dipstick
3. Engine oil filler cap
4. Brake fluid reservoir*
5. Battery
6. Fuse/fusible link box
7. Intercooler coolant reservoir
8. Window washer fluid reservoir
9. Drive belt
10. Air cleaner

*: The layout illustrated is for the Left-Hand Drive (LHD) models. On the Right-Hand Drive (RHD) models, the brake fluid reservoir is located on the opposite side.

ENGINE COOLING SYSTEM

NOTE:

Your vehicle may not be equipped with an engine cover.

WARNING:

- **Never remove the radiator or the engine coolant reservoir cap when the engine is hot. Serious burns could be caused by high-pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.**
- **Engine coolant is poisonous and should be stored carefully in marked containers out of the reach of children.**

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

CAUTION:

- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in its quality with the proper mixture ratio. Examples of the mixture ratio of coolant and water are shown in the following table:**

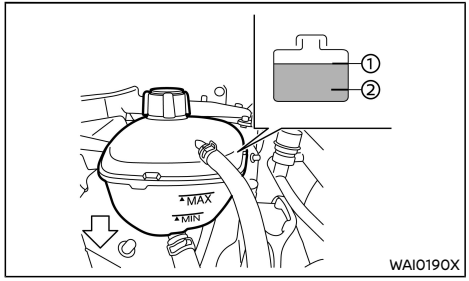
Outside temperature down to		Engine coolant (concentrated)	Demineralized or distilled water
°C	°F		
–15	5	30%	70%
–35	–30	50%	50%

Use Genuine NISSAN Engine Coolant or equivalent in its quality. Genuine NISSAN Engine Coolant is a pre-mixed (mixture ratio 50%) type coolant.

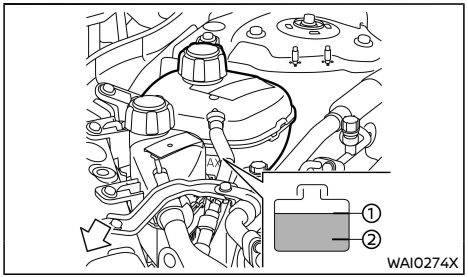
The use of other types of coolant solutions may damage the engine cooling system.

The radiator is equipped with a pressure cap. To prevent engine damage, use only a Genuine NISSAN radiator cap or its equivalent when replacement is required.

CHECKING ENGINE COOLANT LEVEL



PR25DD engine



KR15DDT engine

Check the coolant level **in the reservoir when the engine is cold.** If the coolant level is below the MIN level ②, open the reservoir cap and add coolant up to the MAX level ①.

Tighten the cap securely after adding engine coolant.

If the cooling system frequently requires coolant, have it checked. It is recommended you visit a NISSAN dealer for this service.

CHANGING ENGINE COOLANT

A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

Improper servicing can result in reduced heater performance and engine overheating.

WARNING:

- **To avoid being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator or coolant reservoir cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the coolant reservoir.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of the reach of children and pets.**

Engine coolant must be disposed of properly. Check your local regulations.

INTERCOOLER COOLING SYSTEM (if equipped)

WARNING:

- **Never remove the radiator or coolant reservoir cap when the engine is hot. Wait until the engine cools down. Serious burns could be caused by high pressure fluid escaping from the radiator or coolant reservoir.**
- **The coolant reservoir is equipped with a pressure type coolant reservoir cap. To prevent engine and intercooler damage, use only a genuine NISSAN coolant reservoir cap.**

The intercooler cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

CAUTION:

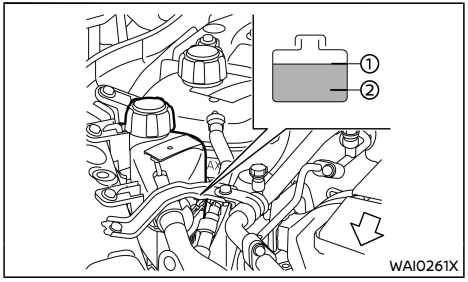
- **Never use any additives in the coolant such as radiator sealer in the cooling system. This may cause damage to the intercooler.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in its quality with the proper mixture ratio. Examples of the mixture ratio of coolant and water are shown in the following tables:**

Outside temperature down to		Coolant (concentrated)	Demineralized or distilled water
°C	°F		
−15	5	30%	70%
−35	−30	50%	50%

The use of other types of coolant solutions may damage the intercooler cooling system.

The intercooler reservoir is equipped with a pressure cap. To prevent engine damage, use only a Genuine NISSAN intercooler reservoir cap or its equivalent when replacement is required.

CHECKING INTERCOOLER COOLANT LEVEL



Check the coolant level in the reservoir when the engine is cold. If the coolant level is below the MIN level ②, add coolant to the MAX level ①.

Tighten the cap securely after adding intercooler coolant.

If the intercooler cooling system frequently requires coolant, have it checked. It is recommended you visit a NISSAN dealer for this service.

CHANGING INTERCOOLER COOLANT

Intercooler coolant is maintenance-free.

If replacement is required, it is recommended you visit a NISSAN dealer for this service.

Improper servicing can result in intercooler overheating.

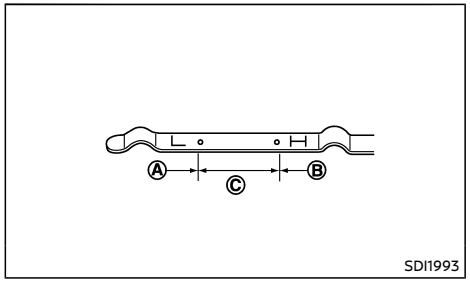
WARNING:

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the radiator or coolant reservoir cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator or coolant reservoir.**
- **Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep coolant out of the reach of children and pets.**

Intercooler coolant must be disposed of properly. Check your local regulations.

ENGINE OIL

CHECKING ENGINE OIL LEVEL



1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. **Wait more than 10 minutes for the oil to drain back into the oil pan.**
4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be within the range Ⓒ. If the oil level is below Ⓐ, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill Ⓑ.**
6. Recheck oil level with the dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

CAUTION:

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by the warranty.

CHANGING ENGINE OIL AND FILTER

WARNING:

- **Used oil must be disposed of properly. Never pour or dump oil into the ground, canals, rivers, etc. It should be disposed of at proper waste facilities. NISSAN recommends having your oil changed by a NISSAN dealer.**
- **Be careful not to burn yourself, as the engine oil may be hot.**
- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Avoid direct skin contact with used oil. If contacted, wash thoroughly with soap or hand cleaner and plenty of water as soon as possible.**
- **Store used engine oil in marked containers out of the reach of children.**

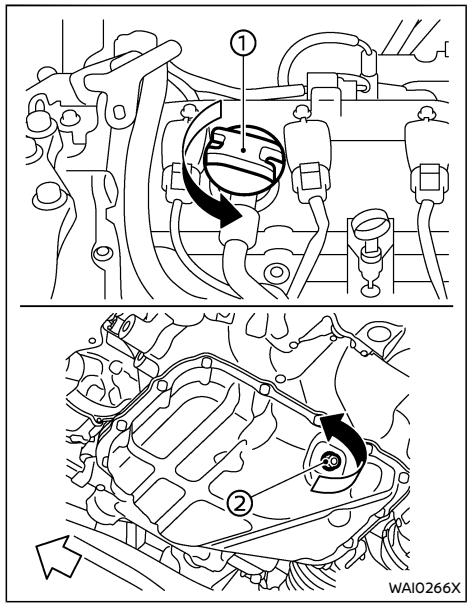
Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches the operating temperature.
3. Turn the engine off and wait more than 10 minutes.
4. Raise and support the vehicle using a suitable floor jack and safety jack stands.
   - Place the safety jack stands under the vehicle jack-up points.
   - A suitable adapter should be attached to the jack stand saddle.
5. Remove the engine undercover (if equipped).
   - Remove clips at the around of the undercover.
   - Then remove the other bolts that hold the undercover in place.

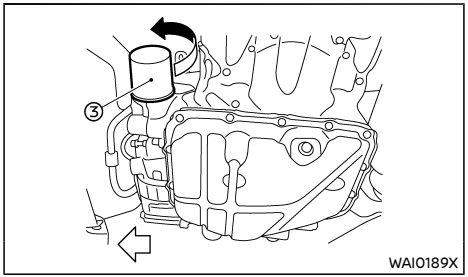
CAUTION:

Make sure the correct lifting and support points are used to avoid vehicle damage.

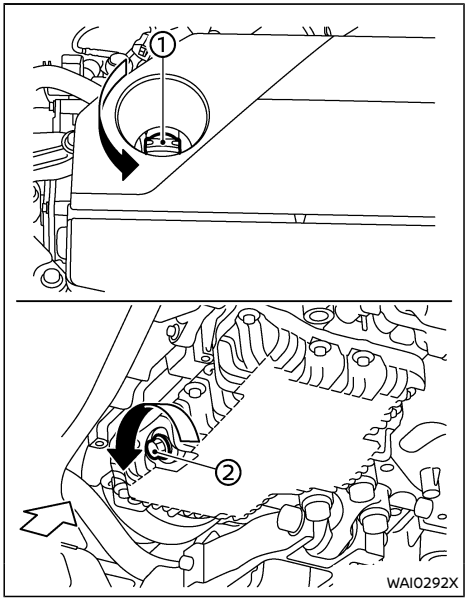
Engine oil and filter



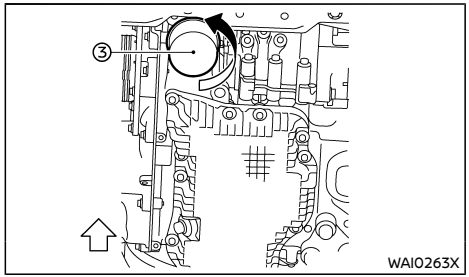
PR25DD engine



PR25DD engine



KR15DDT engine



KR15DDT engine

① Oil filler cap
② Oil drain plug
③ Oil filter

1. Place a large drain pan under the drain plug.
2. Remove the oil filler cap.
3. Remove the drain plug with a wrench and completely drain the oil.

CAUTION:

Be careful not to burn yourself, as the engine oil is hot.

WARNING:

- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.**
- **Keep used engine oil out of reach of children.**

- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

(Perform steps 4 to 7 only when the engine oil filter change is needed.)

4. Loosen the oil filter with an oil filter wrench. Remove the oil filter by turning it by hand.
5. Wipe the engine oil filter mounting surface with a clean rag.

CAUTION:

- **Be sure to remove any old gasket material remaining on the mounting surface of the engine. Failure to do so could lead to engine damage.**
- **The dipstick must be inserted in place to prevent oil spillage from the dipstick hole when filling the engine with oil.**

6. Coat the gasket on the new filter with clean engine oil.
7. Screw in the oil filter clockwise until a slight resistance is felt, then tighten additionally more than 2/3 turn.

   Oil filter tightening torque:
   · PR25DD engine
   14.7 to 20.6 N·m
   (1.5 to 2.1 kg-m, 11 to 15 ft-lb)
   · KR15DDT engine
   15.0 to 21.0 N·m
   (1.5 to 2.1 kg-m, 11 to 15 ft-lb)
8. Clean and re-install the drain plug with a new washer. Securely tighten the drain plug with a wrench.

   Drain plug tightening torque:
   · PR25DD engine
   29.4 to 39.2 N·m
   (22 to 29 ft-lb)
   · KR15DDT engine
   30.0 to 37.0 N·m
   (22 to 27 ft-lb)

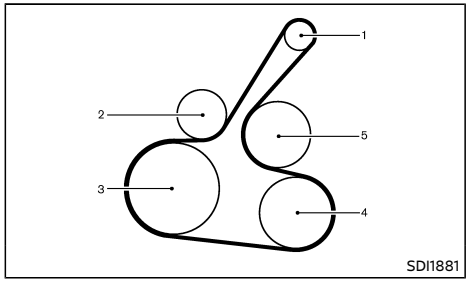
   Do not use excessive force.
9. Refill the engine with the recommended oil through the oil filler opening, and install the oil filler cap securely.

   See "Recommended fluids/lubricants and capacities" (P.9-2) for drain and refill capacity. The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine the proper amount of oil in the engine.
10. Start the engine and check for leakage around the drain plug and the oil filter. Correct as required.
11. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

After the operation

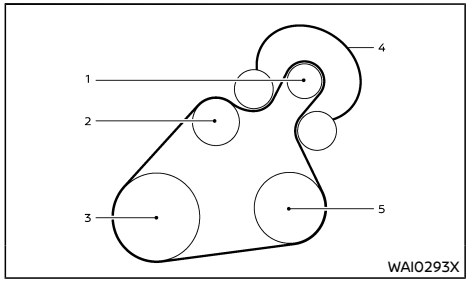
1. Reinstall undercover (if equipped) in reverse order of removal.
2. Lower the vehicle carefully to the ground.
3. Reset the Oil Control System and oil and filter maintenance reminder. (See "Maintenance" (P.2-27).)

DRIVE BELT



PR25DD engine

1. Alternator
2. Drive belt auto-tensioner
3. Crankshaft pulley
4. Air conditioner compressor
5. Water pump



KR15DDT engine

1. Starter generator
2. Water pump
3. Crankshaft pulley
4. Drive belt auto-tensioner
5. Air conditioner compressor

SPARK PLUGS

WARNING:

Be sure the ignition switch is in the "OFF" position before servicing drive belts. The engine could rotate unexpectedly.

1. Visually inspect the belt for signs of unusual wear, cuts or fraying. If the belt is in poor condition, have it replaced. It is recommended that you visit a NISSAN dealer for this service.
2. Have the belt condition checked regularly.

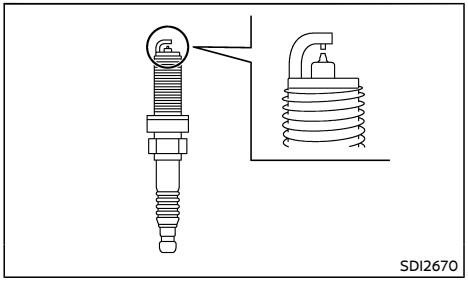
WARNING:

Be sure the engine and ignition switch are off and that the parking brake is applied.

CAUTION:

Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

REPLACING SPARK PLUGS



If replacement is required, it is recommended you visit a NISSAN dealer for this service.

Iridium platinum-tipped spark plugs

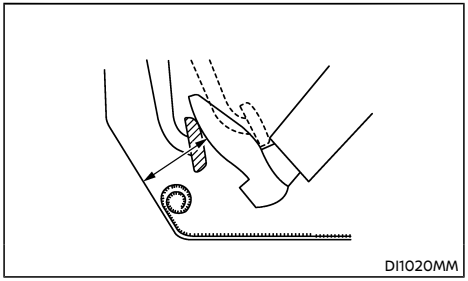
It is not necessary to replace the iridium platinum-tipped spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance schedule shown in a separate maintenance booklet. Do not reuse the iridium platinum-tipped spark plugs by cleaning or regapping.

Always replace spark plugs with recommended or equivalent ones.

CHECKING PARKING BRAKE

Periodically check the holding ability of the parking brake by parking on a steep hill and restraining the vehicle by using only the parking brake. If it does not hold satisfactorily, see a NISSAN dealer.

CHECKING FOOT BRAKE



WARNING:

See a NISSAN dealer for a brake system check if the brake pedal height does not return to normal.

With the engine running, check the distance between the upper surface of the pedal and the metal floor. If it is out the range listed, see a NISSAN dealer.

Depressing force
490 N (50 kg, 110 lb)

LHD model	RHD model
75 mm (3.0 in) or more	90 mm (3.5 in) or more

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

WARNING:

Have your brake system checked if the brake pedal height does not return to normal. It is recommended you visit a NISSAN dealer for this service.

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the wear warning sound is heard.

Under some driving or climate conditions, occasional brake squeaks, squeals or other noises may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information, see a separate maintenance booklet.

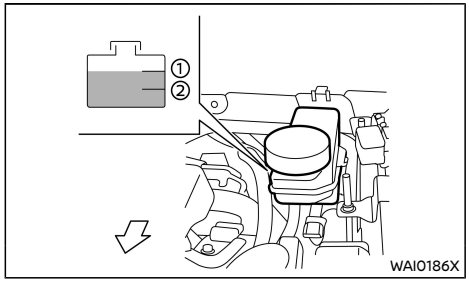
BRAKE FLUID

WARNING:

- **Use only new fluid from a sealed container. Old, inferior, or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.**
- **Clean the filler cap before removing.**
- **Brake fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

CAUTION:

Do not spill the fluid on painted surfaces. This will damage the paint. If fluid is spilled, wash it off with plenty of water immediately.



Check the fluid level in the reservoir. If the fluid is below the MIN line ②, the brake warning light will illuminate. Add fluid up to the MAX line ①. (See "Recommended fluids/lubricants and capacities" (P.9-2) for recommended types of fluid.)

If the fluid must be added frequently, the system should be thoroughly checked by a

NISSAN dealer.

Replace the brake fluid according to the maintenance log shown in a separate maintenance booklet.

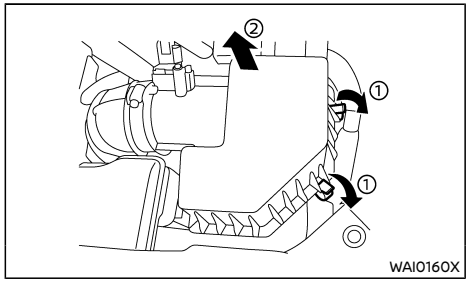
CONTINUOUSLY VARIABLE TRANSMISSION (CVT) FLUID

Contact a NISSAN dealer if checking or replacement is required.

CAUTION:

- **Use only Genuine NISSAN CVT Fluid NS-3. Do not mix with other fluids.**
- **Using transmission fluid other than Genuine NISSAN CVT Fluid NS-3 may damage the CVT, which is not covered by the warranty.**

AIR CLEANER



To remove the filter, release the lock pins ① and pull the unit upward ②.

The dry paper type filter element may be cleaned and reused. Replace the filter according to the maintenance schedule shown in a separate maintenance booklet. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

WARNING:

- **Operating the engine with the air cleaner filter off can cause you or others to be burned. The air cleaner filter not only cleans the intake air, it also stops flame if the engine backfires. If the air cleaner filter is not installed and the engine backfires, you could be burned. Never drive with the air cleaner filter off. Be cautious working on the engine when the air cleaner filter is off.**
- **Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.**

WIPER BLADES

WINDSHIELD WIPER BLADES

Cleaning

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

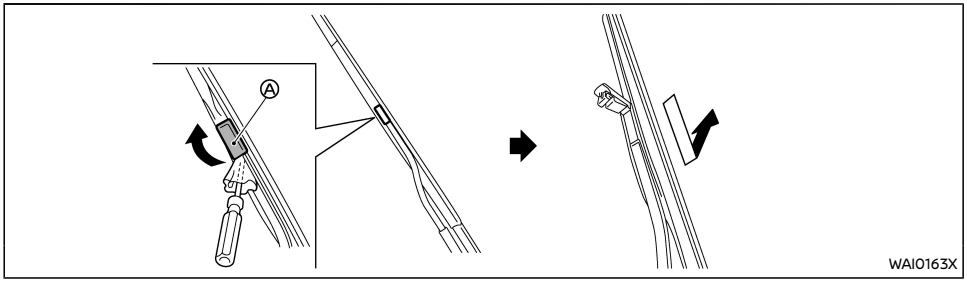
CAUTION:

Worn windshield wiper blades can damage the windshield and impair driver vision.

When a washer nozzle is clogged:

It is recommended you see a NISSAN dealer if a washer nozzle is clogged or any malfunction occurs. Do not attempt to clean the nozzle using a needle or a pin. Doing so may damage the nozzle.

Replacing



Replace the wiper blades if they are worn.

1. Lift the wiper arm away from the windshield. **When lifting the wiper arm, lift the driver's side first, then the passenger's side. Otherwise, the wiper blades may be scratched and may cause damage.**
2. Open Ⓐ, using a suitable tool, and then move the wiper blade down as shown to remove.
3. Insert the new wiper blade onto the wiper arm until a click sounds.
4. Close Ⓐ.

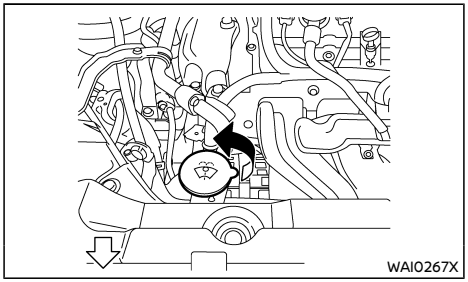
CAUTION:

- **After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.**
- **Make sure the wiper blades contact the glass; otherwise the arm may be damaged from wind pressure.**

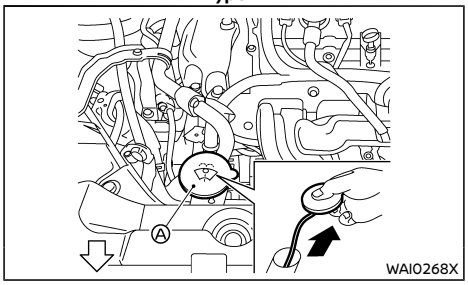
REAR WINDOW WIPER BLADE

It is recommended you contact a NISSAN dealer if checking or replacement is required.

WINDOW WASHER FLUID



Type A



Type B

Type A: Check the fluid level in the window washer reservoir. If the fluid level is low, add window washer fluid.

Type B: To check the fluid level, use your finger to plug the center hole Ⓐ of the cap/tube assembly, then remove it from the reservoir. If there is no fluid in the tube, add fluid.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Fill the window washer fluid reservoir periodically.

Refill the reservoir more frequently when driving conditions require an increased amount of window washer fluid.

CAUTION:

- **Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.**
- **Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.**
- **Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.**

BATTERY

VEHICLE BATTERY

Caution symbols for battery			⚠ WARNING
①		No smoking, No exposed flames, No sparks	Never smoke around battery. Never expose battery to open flames or electrical sparks.
②		Shield eyes	Handle the battery cautiously. Always wear eye protection glasses to protect against explosion or battery acid.
③		Keep away from children	Never allow children to handle battery. Keep the battery out of the reach of children.
④		Battery acid	Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After handling the battery or battery cap, immediately wash your hands thoroughly. If the battery fluid gets into your eyes, or onto your skin or clothing, flush with water immediately for at least 15 minutes and seek medical attention. Battery fluid is acid. If the battery fluid gets into your eyes or onto your skin, it could cause loss of your eyesight or burns.
⑤		Note operating instructions	Before handling the battery, read this instruction carefully to ensure correct and safe handling.
⑥		Explosive gas	Hydrogen gas, generated by battery fluid, is explosive.

SDI1573

Main battery (12-volt battery)

See "Engine compartment check locations" (P.8-5) for the battery location.

- If the battery is labeled "do not open" it is maintenance free and battery fluid should not be checked. It is recommended that you visit a NISSAN dealer or a qualified specialist workshop to confirm the battery's performance.
- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative ⊖ battery terminal cable to prevent discharging it.

NOTE:

Care should be taken to avoid situations that can lead to potential battery discharge and potential no-start conditions such as:

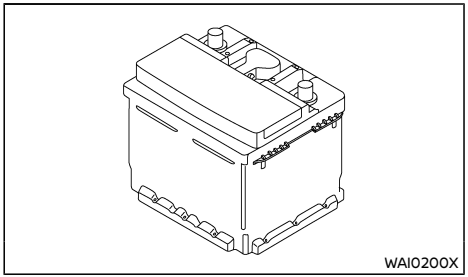
1. **Installation or extended use of electronic accessories that consume battery power when the engine is not running (Phone chargers, GPS, DVD players, etc.).**

2. **Vehicle is not driven regularly and/or only driven short distances.**

In these cases, the battery may need to be charged to maintain battery health.

WARNING:

- **Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by the battery is explosive. Do not allow battery fluid to contact your skin, eyes, fabrics or painted surfaces. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.**
- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.**
- **Keep the battery out of the reach of children.**
- **Do not tip the battery.**



Example

NOTE:

Do not try to open the top of the battery.

This battery is not equipped with removable vent caps.

Auxiliary battery (Lithium ion battery) (if equipped)

The Lithium ion (Li-ion) battery is located under the front passenger's seat.

Precautions on the Li-ion battery:

WARNING:

- **Do not let the Li-ion battery get wet.**
- **Do not remove or disassemble the Li-ion battery.**
- **Do not subject the Li-ion battery to impact.**
- **Do not remove the Li-ion battery terminal or connect any electrical equipment to the terminal.**
- **Do not put fire close to the Li-ion battery.**

CAUTION:

Do not place any heavy objects under the front seat or stomp the floor around there, as the Li-ion battery is located under the front passenger's seat.

When starting or stopping the engine, sound may be heard from under the front passenger's seat. This is an operating sound of the Li-ion battery and does not indicate a malfunction.

JUMP STARTING

If jump starting is necessary, see "Jump starting" (P.6-12). If the engine does not start by jump starting, the battery may have to be replaced. It is recommended you visit a NISSAN dealer for this service.

INTELLIGENT KEY BATTERY

WARNING:

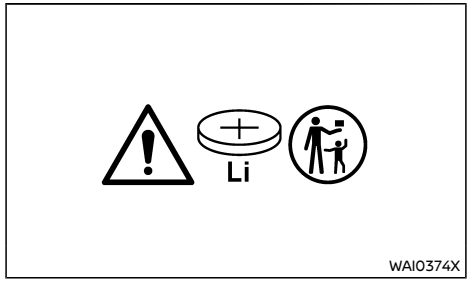
Do not ingest the battery, Chemical Burn Hazard

This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.

Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.

If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.

For Australia and New Zealand:



- Button/Coin Cell Batteries are Hazardous (new or used). Keep away from Children.
- Button/Coin Cell Batteries can cause severe or fatal injuries in 2 hours or less if they are swallowed or placed inside any part of the body.
- If you suspect your child has swallowed or inserted a button/coin cell battery, call the 24-hour Poisons Information Centre in Australia on 131126 or in New Zealand on 0800 764 766 or contact your country's emergency department.

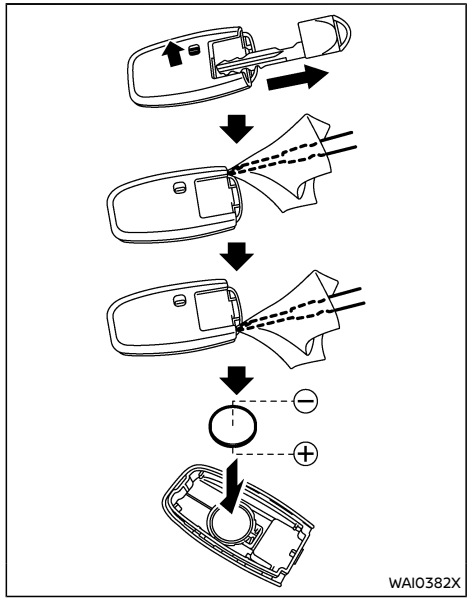
This symbol is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING:

- **Do not ingest the battery, Chemical Burn Hazard. This product contains a coin/button cell battery. If the coin/button cell battery is swallowed, it can cause severe internal burns in just 2 hours and can lead to death.**
- **Keep new and used batteries away from children. If the battery compartment does not close securely, stop using the product and keep it away from children.**
- **If you think batteries might have been swallowed or placed inside any part of the body, seek immediate medical attention.**
- **There is danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type. Incorrectly replacing the battery can lead to injury or death.**

CAUTION:

- **Be careful not to allow children to swallow the battery and removed parts.**
- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **When changing batteries, do not let dust or oil get on the components.**
- **Do not expose the battery to excessive heat such as sunshine, fire or the like.**
- **Do not crush or cut the battery.**
- **Do not subject the battery to extremely low air pressure at high altitude.**



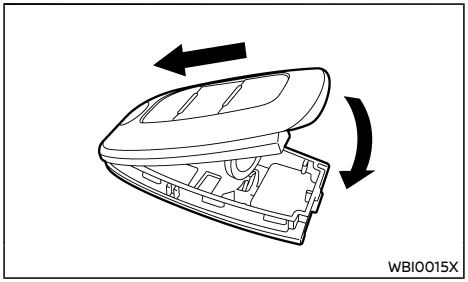
Replace the battery in the Intelligent Key as follows:

1. Remove the mechanical key from the Intelligent Key.
2. Insert a small screwdriver into the slit of the corner (on the right and left sides) and twist it to separate the upper part from the lower part. Use a cloth to protect the casing.
3. Replace the battery with a new one.

   Recommended battery:

   CR2032 or equivalent

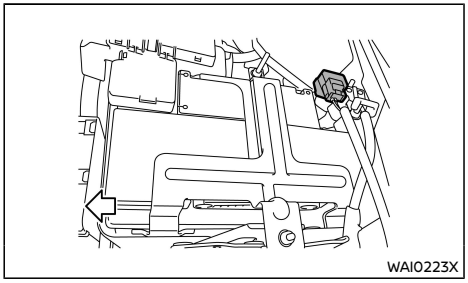
- Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.
- Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
- Make sure that the ⊕ side faces the bottom of the case.


WBI0015X

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.
5. Operate the buttons to check its operation.

If you need any assistance for replacement, it is recommended you visit a NISSAN dealer for this service.

VARIABLE VOLTAGE CONTROL SYSTEM


WAI0223X

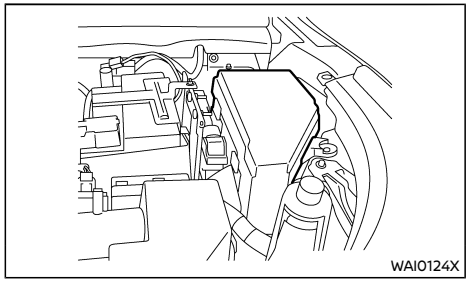
CAUTION:

- **Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.**
- **Use electrical accessories with the engine running to avoid discharging the vehicle battery.**

The variable voltage control system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

FUSES

ENGINE COMPARTMENT

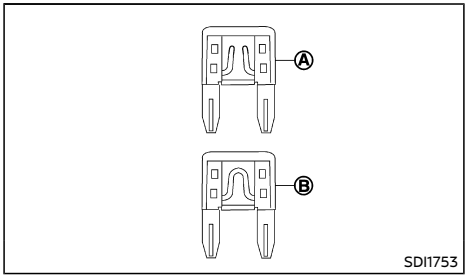

WAI0124X

WARNING:

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is turned off and the headlights are off.
2. Open the engine hood.
3. Remove the fuse/fusible link box cover by using a suitable tool and pushing the tab.
4. Locate the fuse that needs to be replaced.
5. Remove the fuse using the fuse puller located in the passenger compartment fuse box.



6. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
7. If a new fuse also opens, have the electrical system checked and repaired. It is recommended you visit a NISSAN dealer for this service.

Fusible links

If any electrical equipment does not operate and the fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine NISSAN parts.

For checking and replacing the fusible links, it is recommended you visit a NISSAN dealer.

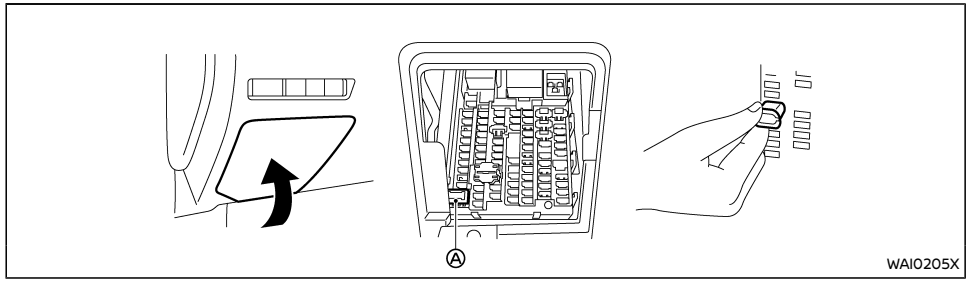
PASSENGER COMPARTMENT

WARNING:

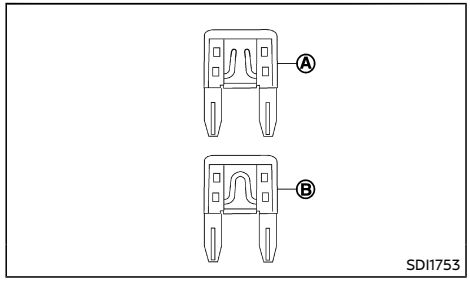
Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or electronic control units or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

Left-Hand Drive (LHD) model

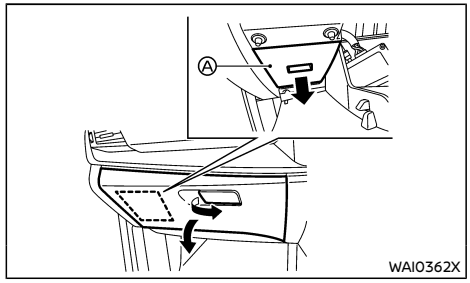


1. Be sure the ignition switch is turned off and the headlights are off.
2. Remove the fuse box cover.
3. Remove the fuse with the fuse puller Ⓐ.

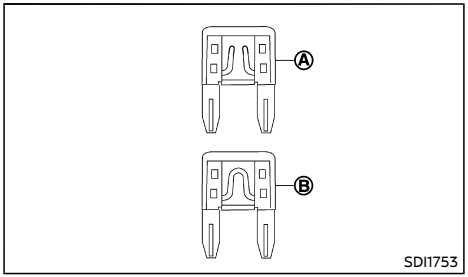


4. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
5. If a new fuse also opens, have the electrical system checked and repaired. It is recommended you visit a NISSAN dealer for this service.

Right-Hand Drive (RHD) model

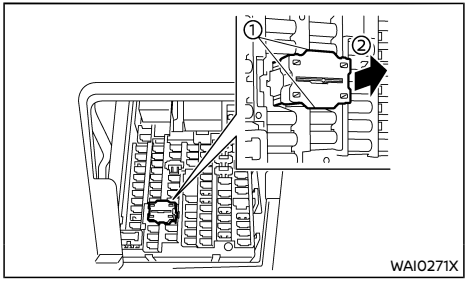


1. Be sure the ignition switch is turned off and the headlights are off.
2. Open the glove box and remove the fuse box cover Ⓐ inside the glove box.
3. Remove the fuse with the fuse puller. (The fuse puller is located as shown in the illustration for LHD models.)



4. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
5. If a new fuse also opens, have the electrical system checked and repaired. It is recommended you visit a NISSAN dealer for this service.

Extended storage switch (if equipped)



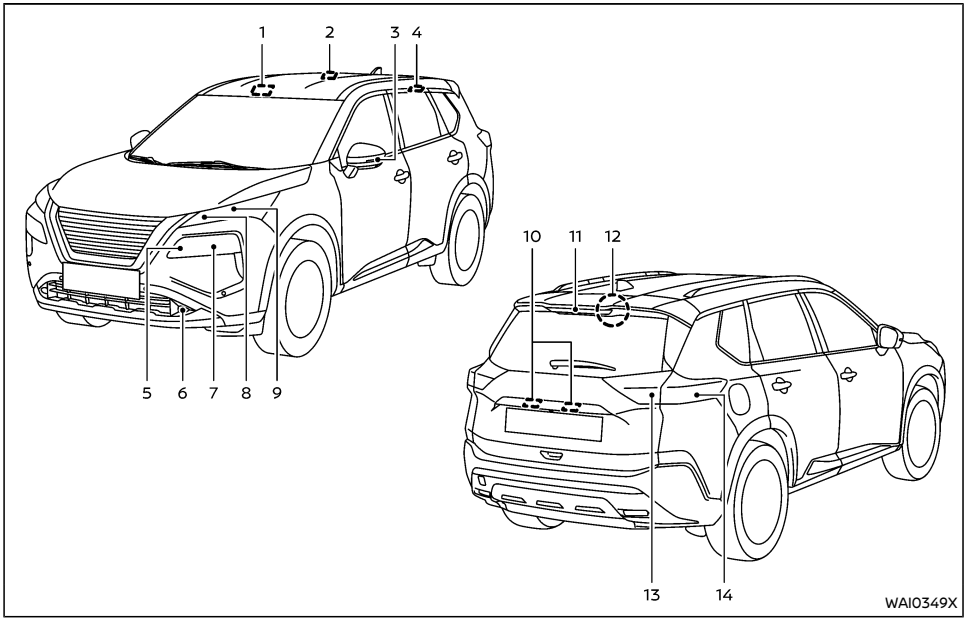
The extended storage switch is used when shipping the vehicle. It is located in the fuse panel. If any electrical equipment does not operate, ensure the extended storage switch is pushed fully in place.

To inspect the extended storage switch, ensure the ignition switch and headlights are off.

How to remove the extended storage switch:

1. To remove the extended storage switch, be sure the ignition switch is in the "OFF" position.
2. Be sure the headlights are off.
3. Remove the fuse box cover.
4. Pinch the locking tabs ① on top and bottom of the extended storage switch.
5. Pull the extended storage switch straight out from the fuse box ②.

LIGHTS



1. Map light
2. Room light (if equipped)
3. Side turn signal light
4. Rear personal light (if equipped)
5. Headlight (high-beam)
6. Front fog light (if equipped)
7. Headlight (low-beam)
8. Front clearance light/Daytime running light/Front turn signal light (LED type)
9. Front turn signal light (Bulb type)
10. License plate light
11. High-mounted stop light
12. Cargo light
13. Back-up light/Tail light/Rear fog light*
14. Rear turn signal light/Stop light/Tail light

*: Driver's side only (if equipped)

HEADLIGHTS

Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, it is recommended you visit a NISSAN dealer for servicing.

Replacing

If LED headlight replacement is required, it is recommended that you visit a NISSAN dealer for this service.

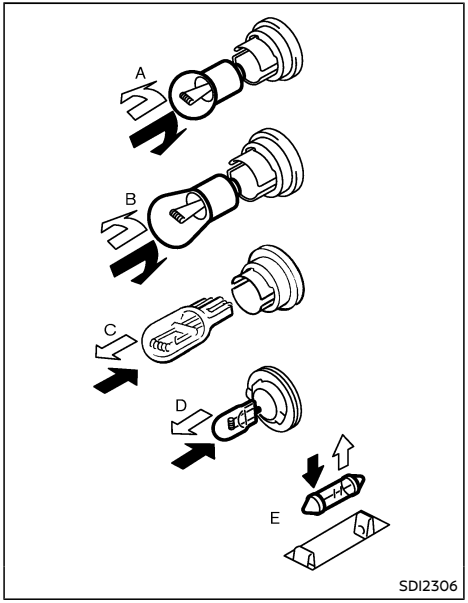
EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)
Headlight high/low beams*	LED
Front turn signal light*	21 or LED
Front clearance light*	LED
Front fog light (if equipped)*	LED
Side turn signal light*	LED
Daytime running light*	LED
Rear combination light*	
Turn signal light	21
Stop light	LED
Tail light	LED
Back-up light	16
Rear fog light (if equipped)*	LED
License plate light*	5 (assembly)
Map light*	16
Rear personal light (if equipped)*	10
High-mounted stop light*	LED
Room light (if equipped)*	16
Cargo light	5

Item	Wattage (W)
Console light*	1.4 or LED
Lower center light*	1.4 or LED
Glove box light*	1.4

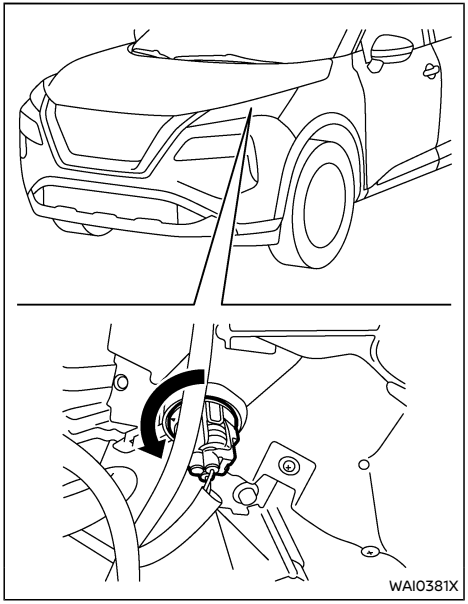
*: It is recommended you visit a NISSAN dealer for replacement.

Replacement procedures

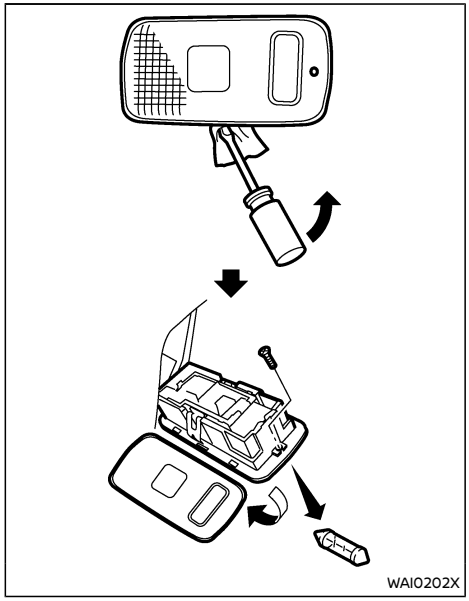


: REMOVE
: INSTALL

All other lights are either type A, B, C, D or E. When replacing a bulb, first remove the lens and/or cover.



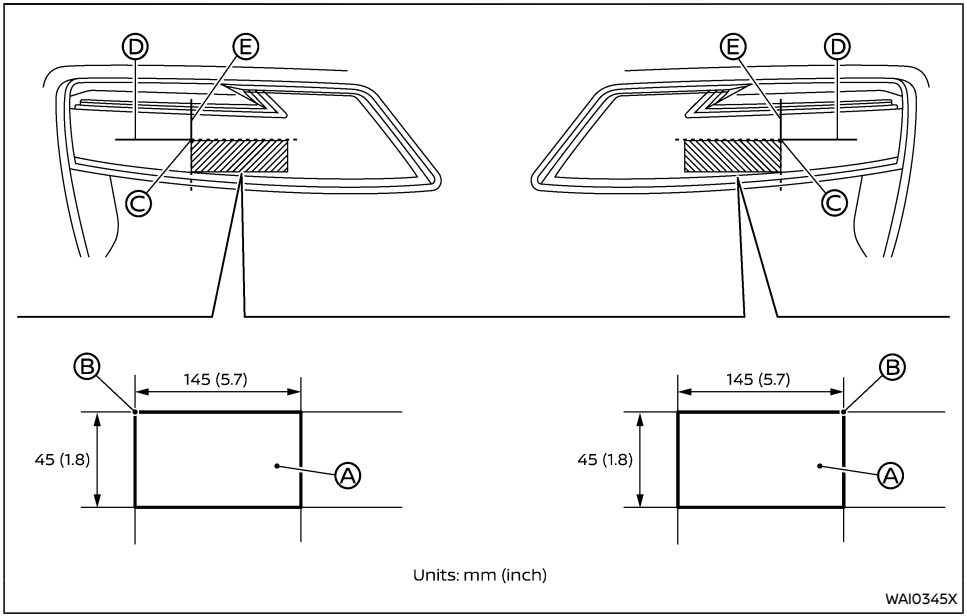
Front turn signal light (bulb type)



Cargo light

LEGAL REQUIREMENT TO ADJUST HEADLIGHT BEAM

When the vehicle is driven in a country where the driving lane is different to your home country, affix an opaque sticker on the headlight.



1. Place the ignition switch in the "OFF" position and wait until the headlights cool down.
2. Prepare the stickers referring to the figure. Make the stickers Ⓐ that will be affixed to the surface of the right side headlight and the left side headlight.

   NOTE:
   - **Use an opaque material that prevents the light from passing through it.**
   - **Note that other transparent materials do not work effectively.**
3. Affix the sticker by aligning the corner Ⓑ of the sticker with the position of the mark Ⓒ that is located on the surface of the headlight seen from front.

   Affix the sticker as illustrated by aligning the mark Ⓒ with dividing lines Ⓓ and Ⓔ.

NOTE:
Align the mark Ⓒ with the center mark ◯ of the LED headlight.

If you have a flat tire, see "Flat tire" (P.6-3).

TIRE PRESSURE MONITORING SYSTEM (TPMS) (if equipped)

The Tire Pressure Monitoring System (TPMS) monitors tire pressure of all tires except the spare (if equipped). When the low tire pressure warning light is lit, one or more of your tires is significantly under-inflated.

The TPMS will activate only when the vehicle is driven at speeds above 25 km/h (16 MPH). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For more details, see "Low tire pressure warning light" (P.2-16), "Tire Pressure Monitoring System (TPMS)" (P.5-7) and "Tire Pressure Monitoring System (TPMS)" (P.6-3).

TIRE INFLATION PRESSURE

Periodically check the pressure of the tires (including the spare (if equipped)). An incorrect tire pressure may adversely affect tire life and vehicle handling. The tire pressure should be checked when tires are COLD. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1.6 km (1 mile). COLD tire pressures are shown on the tire placard.

Insufficient pressure can lead to an overheating of the tire and subsequent internal damage. At high speeds, this could result in tread separation and even bursting of the tire.

TPMS with tire inflation indicator (if equipped)

TPMS with tire inflation indicator provides visual and audible signals outside the vehicle for inflating the tires to the recommended COLD tire pressure. (See "Tire Pressure Monitoring System (TPMS)" (P.5-7).)

TYPES OF TIRES

CAUTION:

When changing or replacing tires, be sure all four tires are of the same type (that is, summer, all season or snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.

Replacement tires may have a lower speed rating than the factory equipped tires, and they may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

All season tires

NISSAN specifies all season tires on some models to provide good performance all year, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M&S on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of snow or all season tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire. If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some states and provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

TIRE CHAINS

CAUTION:

- **Tire chains/cables should not be installed on 255/45 R20 tires. Doing so will cause damage to the vehicle.**
- **If you plan to use tire chains/cables, you should install 235/60 R18 or 235/55 R19 tires on your vehicle.**

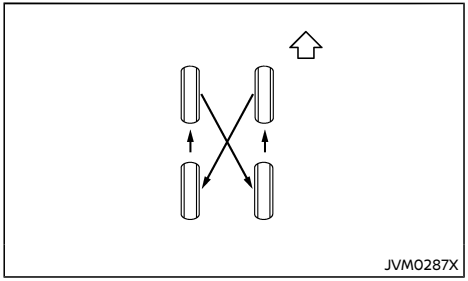
Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Tire chains must be installed only on the front wheels and not on the rear wheels.

Never install tire chains on a spare tire (TEMPORARY USE ONLY) (if equipped).

Do not use tire chains on dry roads. Driving with tire chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

TIRE ROTATION


JVM0287X

NISSAN recommends that tires be rotated every 5,000 km (3,000 miles) for a Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) model or every 10,000 km (6,000 miles) for a Two-Wheel Drive (2WD) model. However, the timing for tire rotation may vary according to your driving habits and the road surface conditions. (See "Flat tire" (P.6-3) for the tire replacement.)

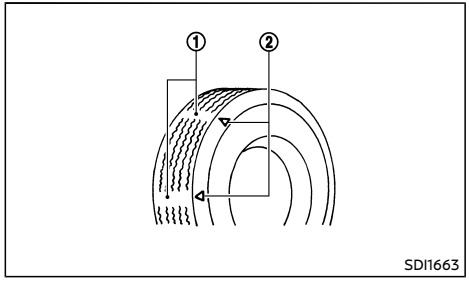
As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

WARNING:

- **After rotating the tires, adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles) (also in cases of a flat tire, etc.).**
- **Do not include the spare tire (if equipped) in the tire rotation.**
- **Incorrect tire selection, fitting, care, or maintenance can affect vehicle safety with risk of accident and injury. If in doubt, consult a NISSAN dealer or the tire manufacturer.**

After the tires are rotated, the TPMS (if equipped) must be reset (model with TPMS reset function). (See "Tire Pressure Monitoring System (TPMS)" (P.5-7) for details about the resetting procedure.)

TIRE WEAR AND DAMAGE



SDI1663

① Wear indicator

② Wear indicator location marks. The locations are shown by " △ ", "TWI", etc. depending on tire types.

Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire should be replaced immediately.

The original tires have a built-in tread wear indicator. When the wear indicator is visible, the tire should be replaced.

Improper service of a spare tire (if equipped) may result in serious personal injury. If it is necessary to repair the spare tire, contact a NISSAN dealer.

TIRE AGE

Never use a tire over six years old, regardless of whether it has been used or not.

Tires degrade with age as well as with the vehicle usage. Have your tires checked and balanced often by a repair shop or, if you prefer, a NISSAN dealer.

CHANGING TIRES AND WHEELS

WARNING:

Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.

When replacing a tire, use the same size, speed rating and load carrying capacity as originally equipped. (See "Tires and Wheels" (P.8-27) for recommended types and sizes of tires and wheels.) The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted, or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, snow chain clearance, Tire Pressure Monitoring System (TPMS), speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.

If the wheels are changed for any reason, always replace with wheels which have the same offset dimension. Wheels of a different offset could cause early tire wear, possibly degraded vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear.

Confirm the following for the TPMS (if equipped).

WARNING:

- **If your vehicle was originally equipped with 4 tires that were the same size and you are only replacing 2 of the 4 tires, install the new tires on the rear axle. Placing new tires on the front axle may cause loss of vehicle control in some driving conditions and cause an accident and personal injury.**
- **After a tire or a wheel is replaced, the TPMS must be reset (model with TPMS reset function). (See "Tire Pressure Monitoring System (TPMS)" (P.5-7) for details about the resetting procedure.)**
- **Replacing tires with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **Since the spare tire (if equipped) is not equipped with the TPMS, when a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after the 1 minute. Contact a NISSAN dealer as soon as possible for tire replacement and/or system resetting.**
- **The TPMS sensor may be damaged if it is not handled correctly. Be careful when handling the TPMS sensor.**
- **When replacing the TPMS sensor, the ID registration may be required. Contact a NISSAN dealer for ID registration.**
- **Do not use a valve stem cap that is not specified by NISSAN. The valve stem cap may become stuck.**
- **Be sure that the valve stem caps are correctly fitted. Otherwise the valve may be clogged up with dirt and cause a malfunction or loss of pressure.**
- **Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**
- **The use of retread tire is not recommended.**

Four-Wheel Drive (4WD)/All-Wheel Drive (AWD) model

CAUTION:

Always use tires of the same size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.

Only use spare tires specified for each 4WD/AWD model.

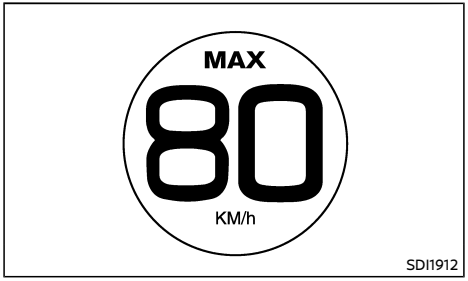
WHEEL BALANCE

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

SPARE TIRE (if equipped)

Temporary-use spare tire (if equipped)

The spare tire supplied with your vehicle varies depending on the model. See "Tires and wheels" (P.9-8) for applicable spare tire.



Spare tire label (if equipped)

A temporary-use spare tire (different size from the original tire) is supplied with your vehicle.

Observe the following precautions if the spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

Since the spare tire is not equipped with the TPMS, when a spare tire is mounted, the Tire Pressure Monitoring System (TPMS) (if equipped) will not function.

CAUTION:

- **The spare tire should be used only for emergency. It should be replaced by the standard tire at the first opportunity.**
- **Drive carefully while the spare tire is installed.**
- **Avoid sharp turns and abrupt braking while driving.**
- **Periodically check the T-type spare tire inflation pressure, and always keep it at 420 kPa (4.2 kgf/cm^2, 60 psi). (T165/90 D17 tire)**
- **Do not drive your vehicle at speeds faster than 80 km/h (50 MPH).**
- **Do not use tire chains on a spare tire. Tire chains will not fit properly on the spare tire and may cause damage to the vehicle.**
- **Because the spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle do not drive over obstacles. Also do not drive the vehicle through an automatic car wash since it may get caught.**
- **Do not use the spare tire on other vehicles.**
- **Do not use more than one spare tire at the same time.**
- **Do not tow a trailer while the spare tire is installed (for Australia, New Zealand and South Africa).**

Conventional spare tire (if equipped)

A standard tire (the same size as the original tire) is supplied with your vehicle.

EMERGENCY TIRE PUNCTURE REPAIR KIT (if equipped)

The emergency tire puncture repair kit is supplied to the vehicle instead of a spare tire. The kit must be used for temporarily fixing a minor tire puncture. After using the repair kit, see a NISSAN dealer as soon as possible for tire inspection and repair/replacement.

See "Flat tire" (P.6-3) for more details.

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RECOMMENDED FLUIDS/ LUBRICANTS AND CAPACITIES

The following are approximate capacities. The actual refill quantities may be slightly different. When refilling, follow the procedures instructed in the "8. Maintenance and do-it-yourself" section to determine the proper refill capacity.

Fluid type				Capacity (approximate)			Recommended Fluids/Lubricants
				Metric Measure	US Measure	Imperial Measure	
Fuel				55 L	14–1/2 gal	12–1/8 gal	· See "Fuel information" (P.9-4).
Engine oil*1 Drain and refill *1: For additional information, see "Changing engine oil and filter" (P.8-10).		PR25DD	With oil filter	5.1 L	5-2/5 qt	4-1/2 qt	For New Zealand and South Africa · Genuine "NISSAN Motor Oil 0W-20 SP" is recommended. · If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity. · Oil grade: – API SN or SP, ILSAC GF-5 or GF-6A – ACEA A3/B3, A3/B4 or A5/B5 · SAE Viscosity: See "Recommended SAE viscosity number" (P.9-4).
			Without oil filter	4.8 L	5-1/10 qt	4-1/5 qt	Except for New Zealand and South Africa · Genuine "NISSAN Motor Oil 0W-20 SP" is recommended. · If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity. · Oil grade: – API: SN or SP, ILSAC GF-5 or GF-6A · SAE Viscosity: See "Recommended SAE viscosity number" (P.9-4).
		KR15DDT	With oil filter	4.7 L	5 qt	4-1/8 qt	For Europe · Genuine "NISSAN Motor Oil 0W-20 SP" is recommended. · If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity. · Oil grade: – API: SP, ILSAC GF-6A · SAE Viscosity: See "Recommended SAE viscosity number" (P.9-4).
			Without oil filter	4.6 L	4-7/8 qt	4 qt	Except for Europe · Genuine "NISSAN Motor Oil 0W-20 SP" is recommended. · If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity. · Oil grade: – API SN or SP, ILSAC GF-5 or GF-6A · SAE Viscosity: See "Recommended SAE viscosity number" (P.9-4).
Engine coolant	PR25DD	With reservoir		8.8 L	9-1/4 qt	7-3/4 qt	For Europe · Genuine NISSAN Engine Coolant or equivalent in its quality*2 Except for Europe · Genuine NISSAN Engine Coolant (blue) or equivalent*2 *2: Use Genuine NISSAN Engine Coolant or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine cooling system caused by the use of non-genuine engine coolant. Note that any repairs for the incidents within the engine cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.
		Reservoir		0.8 L	7/8 qt	3/4 qt	
	KR15DDT	With reservoir		8.5 L	9 qt	7–1/2 qt	
		Reservoir		0.8 L	7/8 qt	3/4 qt	
Intercooler coolant		With reservoir		3.0 L	3–1/8 qt	2–5/8 qt	
		Reservoir		0.5 L	1/2 qt	1/2 qt	

Fluid type	Capacity (approximate)			Recommended Fluids/Lubricants
	Metric Measure	US Measure	Imperial Measure	
Continuously Variable Transmission (CVT) fluid	—	—	—	· Genuine NISSAN CVT Fluid NS-3 · Use only Genuine NISSAN CVT Fluid NS-3. Using transmission fluid other than Genuine NISSAN CVT Fluid NS-3 may damage the CVT, which is not covered by the warranty.
Differential gear oil	—	—	—	· Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 or equivalent · NISSAN recommends using Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 ONLY in NISSAN final drive. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN HYPOID FLUID·S1 GL-5 75W-80 may damage the final drive. Damage caused by the use of fluids other than as recommended is not covered under the warranty.
Transfer fluid	—	—	—	· Genuine NISSAN Differential Oil Hypoid Super-S GL-5 synthetic 75W-90 or equivalent
Brake fluid	Refill to the proper fluid level according to the instructions in the "8. Maintenance and do-it-yourself" section.			· Genuine NISSAN Brake Fluid or equivalent DOT3 or DOT4 · Never mix different types of fluids (DOT3 and DOT4).
Multi-purpose grease	—	—	—	· NLGI No. 2 (Lithium soap base)
Air conditioner system refrigerant	—	—	—	For Europe, Egypt, Palestine and Mexico: · HFO-1234yf (R-1234yf) Except for Europe, Egypt, Palestine and Mexico: · HFC-134a (R-134a)
Air conditioner system lubricants	—	—	—	For Europe, Egypt, and Palestine: · VC100yf Except for Europe, Egypt, and Palestine: · ND-OIL12
Coupling oil	—	—	—	· Genuine "NISSAN GROUP GENUINE PARTS" LSC Transmission Fluid 12-301 or equivalent

FUEL INFORMATION

Gasoline engine

CAUTION:

- **Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**
- **Never use fuel additives. Additives may cause damage to the engine.**

KR15DDT engine model:

Compatible fuels for gasoline engines (for Europe and India)	
The gasoline engines are compatible with current and future European standards for bio-fuel.	
E5	Gasoline conforming to EN228 and mixed with a bio-fuel conforming to EN15376. Maximum bio-fuel content in gasoline allowed by engine is 10%.
E10	**CAUTION:** Damage to fuel system or performance problem caused by the use of fuel with excessive ethanol content may not be covered by your new vehicle warranty.

Use UNLEADED PREMIUM gasoline with an octane rating of at least 95 (RON).

If unleaded premium gasoline is not used, UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON) may be used at slightly reduced performance. However, for maximum vehicle performance and the best driveability, the use of unleaded premium gasoline is recommended.

For India:

Use UNLEADED REGULAR gasoline or gasohol (up to E10*) with an octane rating of at least 91 (RON).

*: Gasohol is alcohol blended gasoline. For example, "E10" is a mixture of approximately 10% fuel ethanol and 90% unleaded gasoline.

CAUTION:

- **Never use fuels containing more than 10% ethanol and do not use gasoline and gasohol containing any methanol under any circumstances.**
- **Damage to fuel system or performance problem caused by the use of these fuels may not be covered by your new vehicle warranty.**

NOTE:

If you are not satisfied with the driveability or Fuel Economy of your vehicle when you are using a gasoline/alcohol blend, you should switch back to unleaded gasoline containing no alcohol.

PR25DD engine model:

Except for Mexico:

Use UNLEADED REGULAR gasoline with octane rating of at least 91 (RON).

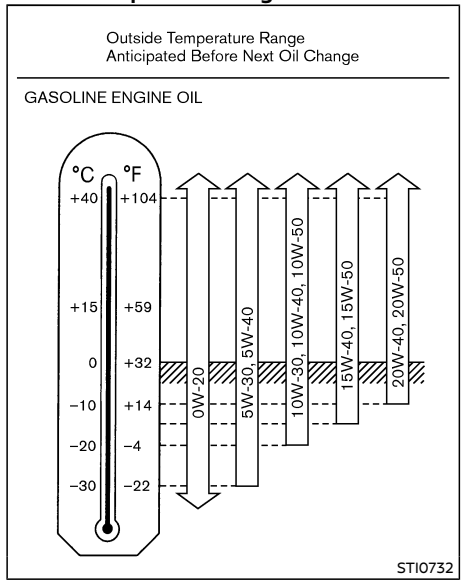
For Mexico:

Use UNLEADED REGULAR gasoline with octane rating of at least 87 AKI (Anti-Knock Index) (Research octane number 91).

RECOMMENDED SAE VISCOSITY NUMBER

Gasoline engine oil

0W-20 is preferable.
If 0W-20 is not available, select the viscosity, from the chart below, that is suitable for the outside temperature range.



AIR CONDITIONER SYSTEM REFRIGERANT AND LUBRICANT

The air conditioner system of your vehicle must be charged with the specified refrigerant and compressor oil or equivalent.

- Refrigerant
  - For Europe, Egypt, Palestine and Mexico: HFO-1234yf (R-1234yf)
  - Except for Europe, Egypt, Palestine and Mexico: HFC-134a (R-134a)
- Compressor Oil
  - For Europe, Egypt, and Palestine: VC100yf
  - Except for Europe, Egypt, and Palestine: ND-OIL12

CAUTION:

Use of any other refrigerants or lubricants will cause severe damage, and you may need to replace your vehicle's entire air conditioner system.

The release of refrigerants into the atmosphere is prohibited in many countries and regions. The refrigerant in your vehicle will not harm the Earth's ozone layer. However, it may contribute in a small part to the global warming effect. NISSAN recommends that the refrigerant be appropriately recovered and recycled. Contact a NISSAN dealer when servicing the air conditioner system.

ENGINE

Engine model			PR25DD	KR15DDT
Type			Gasoline, 4-cycle, DOHC	Gasoline, 4-cycle, DOHC
Cylinder arrangement			4-cylinder, in-line	3-cylinder, in-line
Bore × Stroke		mm (in)	89.0 × 100.0 (3.504 × 3.937)	
	when compression ratio = 8	mm (in)	-	84.0 × 90.1 (3.307 × 3.547)
	when compression ratio = 14	mm (in)	-	84.0 × 88.9 (3.307 × 3.500)
Displacement		cm^3 (cu in)	2,488 (151.85)	
	when compression ratio = 8	cm^3 (cu in)	-	1,497 (91.4)
	when compression ratio = 14	cm^3 (cu in)	-	1,477 (90.1)
Idle speed		rpm	No adjustment is necessary.	800±50
Ignition timing (B.T.D.C.)		degree at idle	No adjustment is necessary.	- 6° to 9°
Spark plugs				
	Type	Standard	DXE22H11C	ILMAR8G8GS
	Gap	mm (in)	1.1 (0.043)	0.8 (0.031)
Camshaft operation			Timing chain	Timing chain

TECHNICAL CHARACTERISTICS (for Gulf Standard models)

Engine model		PR25DD
Maximum net power	kW/rpm	135/6,000
Maximum net torque	N·m/rpm	244/3,600
Maximum speed*1	km/h (MPH)	195 (121)

*1: Gulf Standard regulation requires automobile manufacturers to indicate the maximum vehicle speed for applicable models. The maximum vehicle speed, listed above, is the measured speed under certain testing conditions. The actual value may differ according to the vehicle usage and road and environmental conditions. NISSAN recommends you to ALWAYS observe posted speed limits and never drive too fast for conditions.

TIRES AND WHEELS

	Standard	Spare*1
Tire size	235/65 R17	Conventional T165/90 D17*2
	235/60 R18	T165/90 D17*2
	235/55 R19	
	255/45 R20	

		Size	Offset mm (in)
Road wheel	Aluminum	17 × 7.5J	40 (1.57)
		18 × 7.5J	40 (1.57)
		19 × 7.5J	40 (1.57)
		20 × 8J	45 (1.77)
Spare*1	Steel	17 × 4T	30 (1.18)
	Aluminum	17 × 7.5J	40 (1.57)

*1: If equipped

*2: Temporary use only

Depending on the models, the emergency tire puncture repair kit is supplied.

See the tire placard on your vehicle for the recommended COLD tire pressure.

DIMENSIONS

Unit: mm (in)

Overall length	4,680 (184.3)*3 4,645(182.9)*4
Overall width	1,840 (72.4)
Overall height	1,725 (67.9)*5 1,730 (68.1)*6
Front tread	1,585 (62.4)*1 1,575 (62.0)*2
Rear tread	1,590 (62.6)*1 1,580 (62.2)*2
Wheelbase	2,705 (106.5)

*1: Except for 20-inch wheel model

*2: For 20-inch wheel model

*3: Except for Mexico and Latin America

*4: For Mexico and Latin America

*5: Except for the Middle East

*6: For the Middle East

WHEN TRAVELLING OR REGISTERING IN ANOTHER COUNTRY

When planning to travel in another country or region, find out whether the fuel required for your vehicle is available in that country or region. Using a low octane rated fuel may cause engine damage. Therefore, be sure that the required fuel is available wherever you go. For additional information regarding recommended fuel, see earlier in this section.

When transferring the registration of your vehicle to another country, state, province or district, contact the appropriate authorities to find out that the vehicle complies with the local legal requirements. In some cases, a vehicle cannot meet the legal requirements, and it may be necessary to modify the vehicle to meet local laws and regulations. In addition, there may be possibilities that a vehicle cannot be adapted in certain areas.

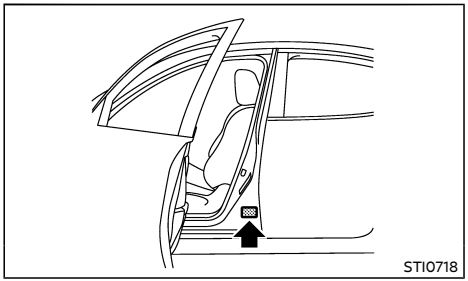
The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, the vehicle specification may differ.

When any vehicles are to be taken into another country, state, province or district, its modification, transportation, registration, and any other expenses which may result, are the responsibility of the user. NISSAN is not responsible for any inconveniences that may result.

VEHICLE IDENTIFICATION

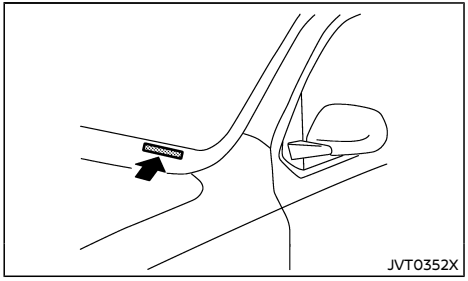
It is prohibited to cover, paint, weld, cut, drill, alter or remove Vehicle Identification Number (VIN).

VEHICLE IDENTIFICATION LABEL (if equipped)



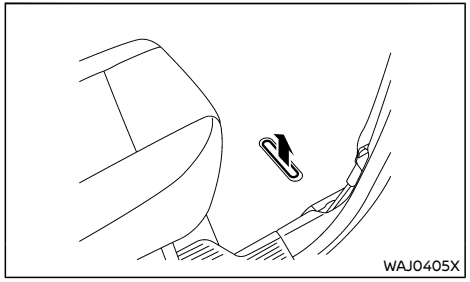
The vehicle identification plate is affixed as shown (on the driver's side).

VEHICLE IDENTIFICATION NUMBER (VIN) PLATE (if equipped)



The vehicle identification number plate is attached as shown.

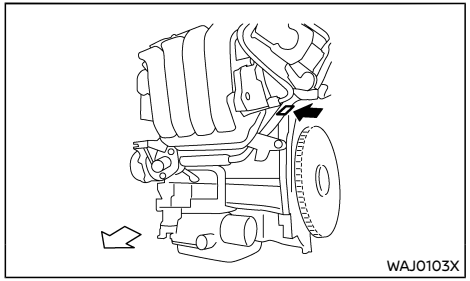
VEHICLE IDENTIFICATION NUMBER (VIN)



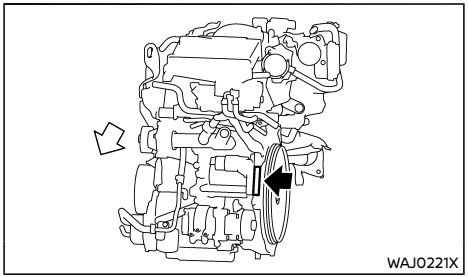
The vehicle identification number is located as shown.

The surface is painted after stamping for rust prevention.

ENGINE SERIAL NUMBER



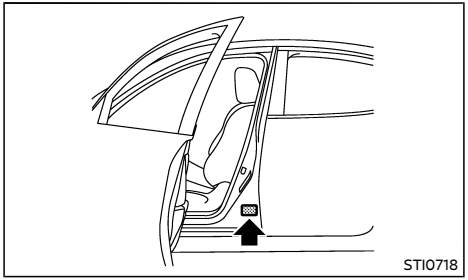
PR25DD engine



KR15DDT engine

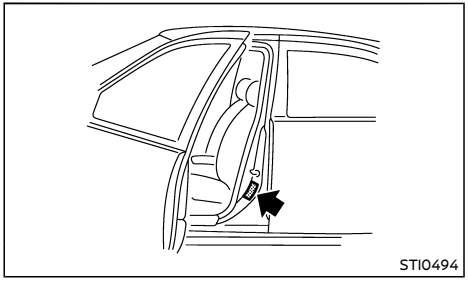
The engine serial numbers are located as shown.

CERTIFICATION LABEL (if equipped)



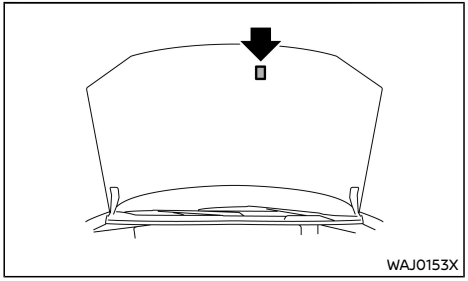
The certification label is attached as shown.

TIRE PLACARD



The cold tire pressures are shown on the tire placard affixed to the driver's side center pillar.

AIR CONDITIONER SPECIFICATION LABEL



The air conditioner specification label is attached to the underside of the hood as shown.

Models with HFO-1234yf (R-1234yf) air conditioner refrigerant:

Air conditioner specification label symbols:		
Symbol Name	Reference	Graphic
Caution	ISO 7000 0434	
Air Conditioning System (MAC: Mobile air conditioning system)	ISO 2575 D01	
MAC System Lubricant Type (PAG–POE)		
Requires Registered Technician to Service MAC System		
Flammable Refrigerant		

UNIFORM TIRE QUALITY GRADING (if equipped)

Quality Grades: All passenger car tires must conform to local safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

TREADWEAR

The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

TRACTION AA, A, B AND C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING:

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

TEMPERATURE A, B AND C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the local regulations. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

WARNING:

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

INSTALLATION OF AN RF-TRANSMITTER

For countries conforming to UN regulation No.10 or equivalent:

The installation of an RF transmitter in your vehicle could affect electric equipment systems. Be sure to check with your NISSAN dealer for precautionary measures or special instructions regarding installation. Upon request, your NISSAN dealer will provide the detailed information (frequency band, power, antenna position, installation guide, etc.) regarding installation.

EVENT DATA RECORDERS (EDR) (if equipped)

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

ADDITIONAL DATA RECORDING (on vehicles equipped with optional ProPILOT)

If your vehicle is equipped with the optional ProPILOT, it will also be equipped with supplemental data recording function intended to assist in understanding how ProPILOT performs in certain non-trivial crash or near-crash scenarios. Specifically, supplemental recording is designed to capture the following:

- Driver operational status of the accelerator, brakes, steering, etc.
- Detection status of a vehicle ahead and lane markers
- Vehicle information including distance to vehicle ahead and lateral position
- Information on the operation of the ProPILOT and other crash avoidance features
- ProPILOT malfunction diagnosis information
- External images from the multi-sensing front camera (Available only when the SRS air bag or Intelligent Emergency Braking system is activated)

The ProPILOT does not record conversations, sounds or images of the inside of the vehicle.

To read this supplemental data, special equipment is required and access to the vehicle or the recording unit is needed. This supplemental data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law. If downloaded, NISSAN and third parties entrusted by NISSAN may use the data recorded for the purpose of improving NISSAN's vehicle safety performance.

NISSAN and third parties entrusted by NISSAN will not disclose/provide the recorded data to a third party except:

- With the consent of the vehicle owner or with the consent of the lessee
- In response to an official request from law enforcement, court order, governmental agency, or other legally enforceable request
- For research purposes after the data is modified such that it is no longer tied to a specific vehicle or vehicle owner (anonymized)

ADDITIONAL DATA RECORDING (on vehicles equipped with TSR system - Type A)

The TSR system is equipped with usage record collection capability that is required by regulations. It is designed to record the data of driving time and distance with the TSR operation.

The collected data will be accessed with the consent of the vehicle owner when the vehicle is garaged in a dealer. Then the collected data will be converted to statistical information which does not enable the identification of the specific individual, and be submitted only to the European Commission.

RADIO APPROVAL NUMBER AND INFORMATION

FOR EUROPE

Radio frequency approval

All radio frequency products fitted to the vehicle range during production conform to the requirements of the Radio Equipment Directive (RED) 2014/53/EU.

The countries covered by this directive, or those which accept it, are: Albania, Austria, Belgium, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, French Guiana, Georgia, Germany, Greece, Guadeloupe, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Martinique, Mayotte, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Reunion, Romania, Saint Pierre & Miquelon, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Tuvalu, United Kingdom.

VEHICLE RADIO FUNCTIONS		
Frequency Range	**Technology**	**Power/Magnetic Field**
125 kHz (119 – 135 kHz)	Remote Keyless Entry Transponder Ring	≤ 42 dBµA/m at 10m
433 MHz (433.05 – 434.79 MHz)	Tyre Pressure Monitoring	≤ 10 mW e.r.p.
433.92 MHz (433.05 – 434.79 MHz)	Remote Keyless Entry	≤ 10 mW e.r.p.
20 kHz (9 – 90 kHz)	Keyless Go system	≤ 72 dBµA/m at 10m
2.4 GHz (2400 – 2483.5 MHz)	Bluetooth®, Wi-Fi	≤ 100 mW e.i.r.p.
824 – 894 MHz	GSM 850 (2G)	≤ 39 dBm e.i.r.p.
880 – 960 MHz	GSM 900 (2G)	≤ 39 dBm e.i.r.p.
1710 – 1880 MHz	GSM 1800 (2G)	≤ 36 dBm e.i.r.p.
1850 – 1890 MHz	GSM 1900 (2G)	≤ 33 dBm e.i.r.p.
1922 – 2168 MHz	W-CDMA Band I (3G)	≤ 24 dBm e.i.r.p.
24.05 – 24.25 GHz	24 GHz ISM Radar	≤ 100 mW e.i.r.p.
24.25 – 26.65 GHz	24 GHz UWB Radar	≤ -41,3 dBm/MHz e.i.r.p.mean ≤ 0 dBm/50 MHz e.i.r.p. peak
76 – 77 GHz	77 GHz Radar	≤ 55 dBm e.i.r.p.

Tire Pressure Monitoring System (TPMS) transmitter

Hereby, Continental declares that the radio equipment type TIS-09DL is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

- Manufacturer name, Address
  Continental Automotive GmbH
  Siemensstrasse 12, D-93055 Regensburg, Germany
- Importer name, Address
  NISSAN AUTOMOTIVE EUROPE S.A.S.
  8 Rue Jean Pierre Timbaud, 78180 Montigny-le-Bretonneux FRANCE
- Frequency band: 433.92 MHz
- Maximum transmitter power: -17 dBm

Front radar sensor (if equipped)

Simplified EU declaration of conformity	Hereby, Robert Bosch GmbH declares that the radio equipment type FR5CPEC/F5CP32 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://eu-doc.bosch.com



Side radar sensor (if equipped)

Simplified EU declaration of conformity	Hereby, Aptiv Services Deutschland GmbH declares that the radio equipment type 6TR is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU (RED). The full text of the EU declaration of conformity is available at the following internet address: www.aptiv.com/automotive-homologation
	Frequency band(s) in which the radio equipment operates: 76-77 GHz
	Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: 30 dBm (1 W)



Intelligent Key

Hereby, Continental declares that the radio equipment type TXPZ1/TXPZ3 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Intended use: Remote key fob

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

Frequency band: 433.92 MHz

Maximum transmitter power: -12 dBm

UK CA

Hands-Free Module (if equipped)

Hereby, Continental declares that the radio equipment type HFM401 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

- Operating frequency band: 433.92 MHz.

BCM (Body Control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

Audio system (if equipped)

Simplified EU declaration of conformity	Hereby Visteon Automotive Electronics Co., Ltd. declares that this system is in compliance with Directive 2014/53/EU.
	Frequency band(s) in which the radio equipment operates: 2400–2483.5 MHz
	Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: Bluetooth <10 mW (EIRP)

Hereby Visteon Automotive Electronics Co., Ltd. declares that this system is in compliance with Directive 2014/53/EU.

- Importer name, address:
  NISSAN AUTOMOTIVE EUROPE S.A.S.
  8 Rue Jean Pierre Timbaud, 78180 Montigny-le-Bretonneux FRANCE
- Operating frequency range:
  2400–2483.5 MHz
- Maximum power: <10 mW e.i.r.p.



Notified Body
TÜV Rheinland
LGA Products GmbH
Tillystraße 2
90431 Nürnberg
notified by the
Bundesnetzagentur für Elektrizität, Gas,
Telekommunikation, Post und Eisenbahnen
under No. 0197
herewith issues an

EU-Type Examination Certificate

within the meaning of Annex III Module B of the 2014/53/EU Radio Equipment Directive (RED)
for compliance with the essential requirements of this directive

Registration Number: RT 60129909 0001
Evaluation Report Nr.: 50151596 001

Manufacturer: Yanfeng Visteon Automotive Electronics Co., Ltd.
No. 300, Minolta Road, Songjiang District
201600 Shanghai
China

Product: Radio Equipment
(Car Radio with Bluetooth)

Type Identification: N18 W DAB N18 W/O DAB
(VISTEON)

Essential requirements: 2014/53/EU (RED)
Article 3.1a Health
Article 3.1a Electrical Safety
Article 3.1b EMC
Article 3.2 Radio spectrum

The technical design of the assessed type has been verified based on the technical documentation presented by the manufacturer according to Annex III Module B of the Directive. As far as the essential requirements indicated, the Notified Body of TÜV Rheinland LGA Products GmbH confirms, that the technical design of the apparatus meets the essential requirements of the Directive 2014/53/EU Article 3.
This certificate consists of this page and Annex I.
Validity of the certificate is specified in the Annex I.

Notified Body

Date 06.06.2018

S. Peng

WAJ0411X

CE

FOR UKRAINE

Tire Pressure Monitoring System (TPMS) transmitter

Справжнім Continental Automotive GmbH заявляє, що тип радіообладнання TIS-09DL відповідає Технічному регламенту радіотехнічного обладнання;
Повний текст декларації про відповідність доступний на веб-сайті за такою адресою:

https://continental-homologation.com/en-gl/Nissan

Частотний діапазон: [433.92 MHz]
Максимальна потужність передавача: [<10 mW]

Continental Automotive GmbH
Siemensstrasse 12
93055 Regensburg
Germany

WAJ0445X

Front radar sensor (if equipped)

UA RF: 1BOSC0001

WAJ0414X

UA RF: 1BOSC0012

WAJ0584X

справжнім (Robert Bosch GmbH) заявляє, що тип радіообладнання (FR5CPEC) відповідає Технічному регламенту радіообладнання;
повний текст декларації про відповідність доступний на веб-сайті за такою адресою:
http://ita.bosch.com/radar

English translation of the above Ukrainian text:
The present (Robert Bosch GmbH) states that the type of radio equipment (FR5CPEC) corresponds to the Technical regulations of the radio equipment;
The full text of the declaration of conformity is available on the website at the following address:
http://ita.bosch.com/radar

WAJ0415X

справжнім (Robert Bosch GmbH) заявляє, що тип радіообладнання (F5CP32) відповідає Технічному регламенту радіообладнання;
повний текст декларації про відповідність доступний на веб-сайті за такою адресою:
http://ita.bosch.com/radar

English translation of the above Ukrainian text:
The present (Robert Bosch GmbH) states that the type of radio equipment (F5CP32) corresponds to the Technical regulations of the radio equipment;
The full text of the declaration of conformity is available on the website at the following address:
http://ita.bosch.com/radar

WAJ0586X

Side radar sensor (if equipped)



UA RF: 1APTV06TR

WAJ0750X

справжнім (APTIV, 42367 Wuppertal) заявляє, що тип радіообладнання (6TR) відповідає Технічному регламенту радіообладнання;
повний текст декларації про відповідність доступний на веб-сайті за такою адресою:
https://www.aptiv.com/automotive-homologation

WAJ0751X

ISA box (if equipped)

Цим VALEO Telematik und Akustik GmbH заявляє, що тип радіообладнання: Головний блок з технологією GSM, UMTS, LTE, GNSS. Модель: A-IVC-EU-01 відповідає Технічному регламенту радіообладнання; повний текст декларації про відповідність доступний на веб-сайті за такою адресою:

https://www.valeo-clientportal.com

E-GSM/GSM-900/GSM1800	880,1 – 915 / 925,1 – 960 МГц 1710 – 1785 / 1805 – 1880 МГц	33 дБм (GSM-900) 30 дБм (GSM-1800)
IMT-2000 (UMTS)	1920 -1980 / 2110 – 2170 МГц (Band I) 888,8 – 906 / 933,8 – 951 МГц (Band VIII)	24 дБм
E-UTRA Band 3	1710 – 1785 / 1805 – 1880 МГц	23 дБм
E-UTRA Band 5	827,8 – 834 / 872,8 – 879 МГц	23 дБм
E-UTRA Band 7	2510 – 2545 / 2630 – 3665 МГц 2565 – 2570 / 2685 – 2690 МГц	23 дБм
E-UTRA Band 8	888,8 – 906 / 933,8 – 951 МГц	23 дБм
E-UTRA Band 20	832 – 842 / 791 – 801 МГц	23 дБм



WAJ0749X

Audio system (if equipped)



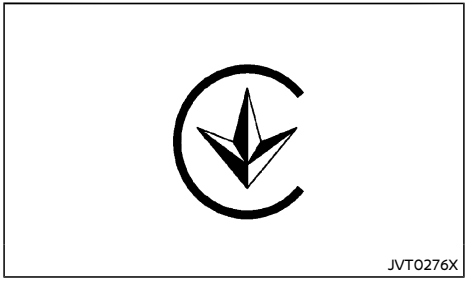
JVT0276X

BCM (Body Control Module)



JVT0276X

Hands-Free Module (if equipped)



JVT0276X

Intelligent Key

Справжнім Continental заявляє, що тип радіообладнання TXPZ1/TXPZ3 відповідає Технічному регламенту радіотехнічного обладнання;
Повний текст декларації про відповідність доступний на веб-сайті за такою адресою:
http://continental-homologation.com/nissan
Частотний діапазон: [433,92MHz]
Максимальна потужність передавача: [-15dBm]
Continental Automotive GmbH
Siemensstrasse 12
93055 Regensburg Germany

WAJ0496X

FOR THE UNITED KINGDOM

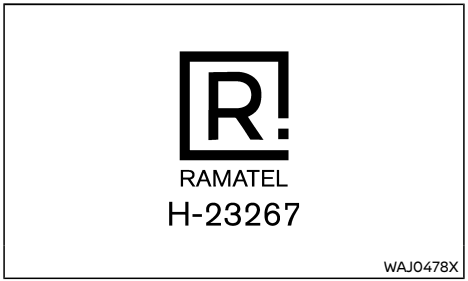
UK
CA

Description	Supplier	Supplier Address	UKCA Certificate #	Link to Certificate	Importer	Importer Address
Intelligent Key Model TXPZ1	Continental Automotive GmbH	Siemensstrasse 12, D-93055 Regensburg, Germany	Refer to Link	https://continental-homologation.com/en-gl/Nissan	Nissan Motors Great Britain (NMGB)	Rivers Office Park Denham Way Rickmansworth WD3 9YS
Hand Free Module Model HFM401	Continental Automotive GmbH	Siemensstrasse 12, D-93055 Regensburg, Germany	Refer to Link	https://continental-homologation.com/en-gl/Nissan		
Telematics Control Unit (TCU) Model A-IVC-EU-01	VALEO Telematik und Akustik GmbH	Max-Planck-Strasse 28-32, 61381 Friedrichsdorf/Ts Germany	Refer to Link	https://www.valeo.com/declaration-of-conformity		
Body Control Module (BCM) Model 40406557	Continental Automotive GmbH	Siemensstrasse 12, D-93055 Regensburg, Germany	Refer to Link	https://continental-homologation.com/en-gl/Nissan		
Tire Pressure Monitoring System (TPMS) sensor Model TIS-09DL	Continental Automotive GmbH	Siemensstrasse 12, D-93055 Regensburg, Germany	Refer to Link	https://continental-homologation.com/en-gl/Nissan		
Front radar sensor Model FR5CPEC/ F5CP32	Robert Bosch GmbH	P0 Box 1661 71226, Leonberg	Refer to Link	https://ita.bosch.com		
Side radar sensor Model 6TR	Aptiv Services Deutschland GmbH	Am Technologiepark 1 D-42119 Wuppertal Germany	Refer to Link	https://www.aptiv.com/en/automotive-homologation		
AIVI Model AIVI-P33A0	Robert Bosch GmbH	Postfach 31132 Hildesheim Germany	Refer to Link	https://doc-ita.bosch.com/search.html?r=GB&p=0&q=AIVIP33A0		
AIVI Model AI-VI2SBXM	Robert Bosch GmbH	Postfach 31132 Hildesheim Germany	Refer to Link	https://gb-doc.bosch.com		

Description	Supplier	Supplier Address	UKCA Certificate #	DECLARATION OF CONFORMITY	Importer	Importer Address
Audio system	Yanfeng Visteon Automotive Electronics Co., Ltd.	No.300,Minolta Road, Songjiang District, shanghai 201600, P.R.China.	TUVS19-UK/17 SEP 2021/Rev A	Certification ID:TUVS19-UK/17 SEP 2021/Rev A	Nissan Motors Great Britain (NMGB)	Rivers Office Park Denham Way Rickmansworth WD3 9YS
				Satisfies all the technical regulations applicable to the product within the scope of UK Radio Equipment Regulations (SI 2017/1206); UK Electrical Equipment (Safety) Regulations (SI 2016/1101); and UK Electromagnetic Compatibility Regulations (SI 2016/1091) and declare that the same application has not been lodged with any other UK Approved Body.		
				Bluetooth frequency band(s) in which the radio equipment operates: 2402-2480 MHz		
				Maximum radio-frequency power transmitted in the frequency band(s) in which the radio equipment operates: Bluetooth < 5.86 dBm(EIRP)		

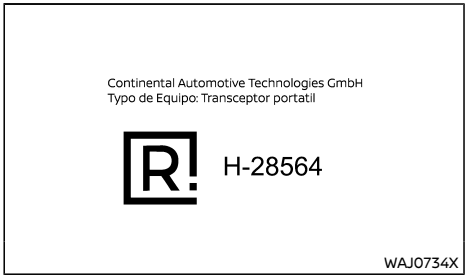
FOR ARGENTINA

Tire Pressure Monitoring System (TPMS) transmitter (if equipped)



Intelligent Key



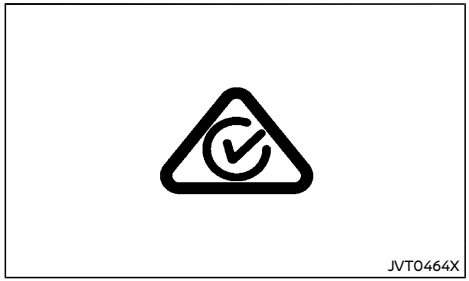


Hands-Free Module (if equipped)

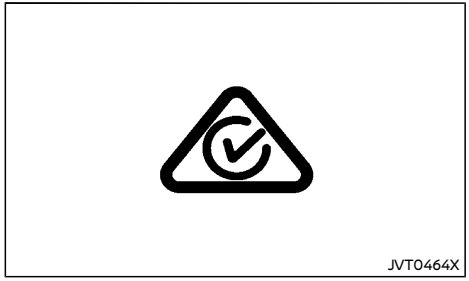


FOR AUSTRALIA AND NEW ZEALAND

Front and side radar sensor



Tire Pressure Monitoring System (TPMS) transmitter (if equipped)



FOR CURACAO

Side radar sensor (if equipped)

CE

FOR MEXICO

Front radar sensor (if equipped)

IFETEL: RCPBOFR18-1885

WAJ0473X

IFT: RCPBOF522-0911

WAJ0587X

Side radar sensor (if equipped)

IFETEL Numero RLVAPRN19-1140

"La operación de este equipo está sujeta a las siguientes dos condiciones"
Es posible que este equipo o dispositivo no cause interferencia perjudicial y
Este equipo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

WAJ0497X

IFT: SYAP2R23-32830

WAJ0588X

IFT: SYAP6T23-17524

WAJ0754X

Intelligent Key

TXPZ1/TXPZ3

Continental Automotive GmbH
Siemensstrasse 12
93055 Regensburg
Germany

Para su uso en México, la operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar
cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

WAJ0483X

Tire Pressure Monitoring System (TPMS) transmitter

IFETEL: RLVCOTI19-0707

La operación de este equipo está sujeta a las siguientes dos condiciones: (1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

WAJ0503X

Hands-Free Module (if equipped)

HFM401

Continental Automotive GmbH
Siemensstrasse 12
93055 Regensburg
Germany

Para su uso en México, la operación de este equipo está sujeta a las siguientes dos condiciones:
(1) es posible que este equipo o dispositivo no cause interferencia perjudicial y (2) este equipo o dispositivo debe aceptar
cualquier interferencia, incluyendo la que pueda causar su operación no deseada.

WAJ0484X

FOR THE UNITED ARAB EMIRATES

Tire Pressure Monitoring System (TPMS) transmitter (if equipped)

TRA
REGISTERED No:
ER69823/19
DEALER No:
DA36975/14

WAJ0479X

Front radar sensor (if equipped)

TRA - United Arab Emirates
Dealer ID: DA36758/14
TA RTTE: ER66978/18
Model: FR5CPEC
Type: Radar Sensor

WAJ0616X

TRA - United Arab Emirates
Dealer ID: DA36758/14
TA RTTE: ER02938/21
Model: F5CP32
Type: Bosch

WAJ0596X

FOR OMAN

Front radar sensor (if equipped)

OMAN TRA
R/6188/18
D172249

WAJ0474X

Oman-TRA
D172338
R/12439/21

WAJ0597X

Side radar sensor (if equipped)

Oman-TRA
D172299
7904/19

WAJ0499X

Oman-TRA
D172338
R/14865/22

WAJ0599X

Oman-TRA
R/15887/23
172338D

WAJ0758X

FOR PARAGUAY

Front radar sensor (if equipped)

CONATEL

2018-11-I-000612

WAJ0475X

CONATEL

NR: 2021-12-I-0746

WAJ0601X

Side radar sensor (if equipped)

CONATEL

NR: 2019-08-I-0424

WAJ0500X

CONATEL

NR: 2022-12-I-0759

WAJ0603X

CONATEL

NR: 2023-06-I-0386

WAJ0752X

Tire Pressure Monitoring System (TPMS) transmitter (if equipped)

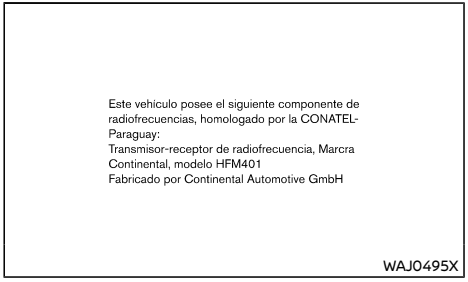


Intelligent Key



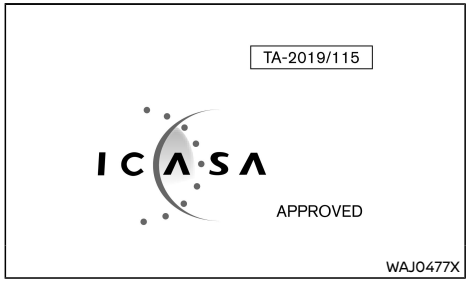
Hands-Free Module (if equipped)





FOR SOUTH AFRICA

Front radar sensor

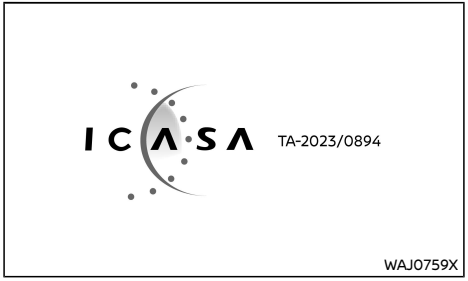




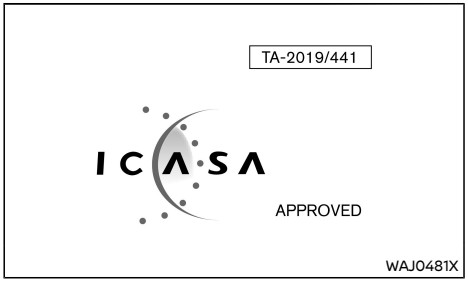
Side radar sensor (if equipped)







Tire Pressure Monitoring System (TPMS) transmitter (if equipped)



Hands-Free Module (if equipped)



FOR PALESTINE

Hands-Free Module (if equipped)



وزارة الاتصالات وتكنولوجيا المعلومات
Ministry of Telecom & Information Technology

Type Approval Reg. No.

R2022/123

WAJ0760X

BCM (Body control Module)

CE

FOR KIRIBATI

BCM (Body control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

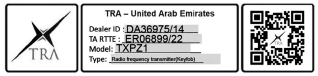
Siemensstrasse 12

93055 Regensburg

Germany

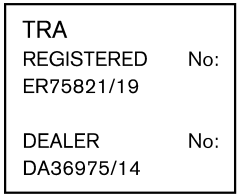
FOR ABU DHABI AND DUBAI

Intelligent Key



WAJ0486X

Hands-Free Module (if equipped)



WAJ0488X

BCM (Body control Module)



WAJ0489X

FOR GRAND CAYMAN

Intelligent Key

Hereby, Continental declares that the radio equipment type TXPZ1 is in compliance with Directive 2014/53/EU requirement. The full text of the EU declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Intended use: Remote key fob

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

Frequency band: 433.92 MHz

Maximum transmitter power: -12 dBm

BCM (Body Control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

FOR GEORGIA, LEBANON AND SYRIA

Intelligent Key

Hereby, Continental declares that the radio equipment type TXPZ1/TXPZ3 is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Intended use: Remote key fob

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

Frequency band: 433.92 MHz

Maximum transmitter power: -12 dBm

Hands-Free Module (if equipped)

Hereby, Continental declares that the radio equipment type HFM401 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

- Operating frequency band: 433.92 MHz.

BCM (Body control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

FOR ARUBA AND ST. MARTIN

BCM (Body Control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

FOR BAHAMAS

BCM (Body control Module)

Hereby, Continental declares that the radio equipment type 40406557 is in compliance with Directive 2014/53/EU & UKCA requirement. The full text of the EU & UKCA declaration of conformity is available at the following internet address:

https://continental-homologation.com/en-gl/Nissan

Manufacturer:

Continental Automotive GmbH

Siemensstrasse 12

93055 Regensburg

Germany

FOR TURKEY

Front radar sensor (if equipped)

Manufacturer:
Robert Bosch GmbH
Posta kutusu 1661
71226 Leonberg, Almanya

MEMO

MEMO

MEMO

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MEMO

GAS STATION INFORMATION

FUEL INFORMATION:

Gasoline engine (model with three-way catalyst)

CAUTION:

- **Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**
- **Never use fuel additives. Additives may cause damage to the engine.**

KR15DDT engine model:

Compatible fuels for gasoline engines (for Europe and India)	
The gasoline engines are compatible with current and future European standards for bio-fuel.	
E5	Gasoline conforming to EN228 and mixed with a bio-fuel conforming to EN15376. Maximum bio-fuel content in gasoline allowed by engine is 10%.
E10	**CAUTION:** Damage to fuel system or performance problem caused by the use of fuel with excessive ethanol content may not be covered by your new vehicle warranty.

Use UNLEADED PREMIUM gasoline with an octane rating of at least 95 (RON).

If unleaded premium gasoline is not used, UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON) may be used at slightly reduced performance. However, for maximum vehicle performance and the best driveability, the use of unleaded premium gasoline is recommended.

For India:

Use UNLEADED REGULAR gasoline or gasohol (up to E10*) with an octane rating of at least 91 (RON).

*: Gasohol is alcohol blended gasoline. For example, "E10" is a mixture of approximately 10% fuel ethanol and 90% unleaded gasoline.

CAUTION:

- **Never use fuels containing more than 10% ethanol and do not use gasoline and gasohol containing any methanol under any circumstances.**
- **Damage to fuel system or performance problem caused by the use of these fuels may not be covered by your new vehicle warranty.**

NOTE:

If you are not satisfied with the driveability or Fuel Economy of your vehicle when you are using a gasoline/alcohol blend, you should switch back to unleaded gasoline containing no alcohol.

PR25DD engine model:

Except for Mexico:

Use UNLEADED REGULAR gasoline with octane rating of at least 91 (RON).

For Mexico:

Use UNLEADED REGULAR gasoline with octane rating of at least 87 AKI (Anti-Knock Index) (Research octane number 91).

RECOMMENDED ENGINE OIL

See "Recommended fluids/lubricants and capacities" (P.9-2).

TIRE COLD PRESSURE

See the tire placard affixed to the driver's side center pillar.

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Printing: November 2023
Publication No.: OM23E00T33G0
Printed in Japan
T00UM-6RA2E

T33-A