

Z

OWNER'S MANUAL

Foreword

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many kilometers (miles) of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information & Maintenance Booklet explains details about the warranties covering your vehicle.

Your NISSAN dealer knows your vehicle best. When you require any service or have any questions, we will be glad to assist you with the extensive resources available for you.

IMPORTANT SAFETY INFORMATION

Reminders for safety!

Follow these important driving rules to help ensure a safe and complete trip for you and your passengers!

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS use your seat belts and appropriate child restraint systems.**
- **ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.**
- **ALWAYS review this Owner's Manual for important safety information.**

When reading the manual

This manual includes information for all options available on this model. Therefore, you may find some information that does not apply to your vehicle.

Throughout this manual, some illustrations may only show the layout for Left-Hand Drive (LHD) models. For Right-Hand Drive (RHD) models, the illustrated shape and location of some components may differ.

All information, specifications and illustrations in this manual are those in effect at the time of printing. NISSAN reserves the right to change specifications or designs without notice and without obligation.

MODIFICATION OF YOUR VEHICLE

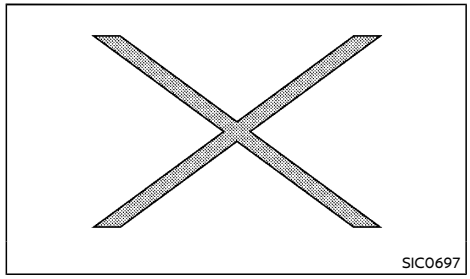
This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modifications may not be covered under NISSAN warranties.

Read first — then drive safely

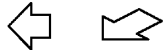
Before driving your vehicle, read this Owner's Manual carefully. This will ensure familiarity with controls and maintenance requirements, assisting you in the safe operation of your vehicle.

Throughout this manual we have used the symbol ⚠ followed by the word **WARNING**. This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

The symbol ⚠ followed by the word **CAUTION** is also used throughout this manual to indicate the presence of a hazard that could cause minor or moderate personal injury or damages to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.



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.

Air bag warning labels (if equipped):



"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."

"Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!"

Be sure to read "Air bag warning labels" (P.1-30).

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0 Illustrated table of contents

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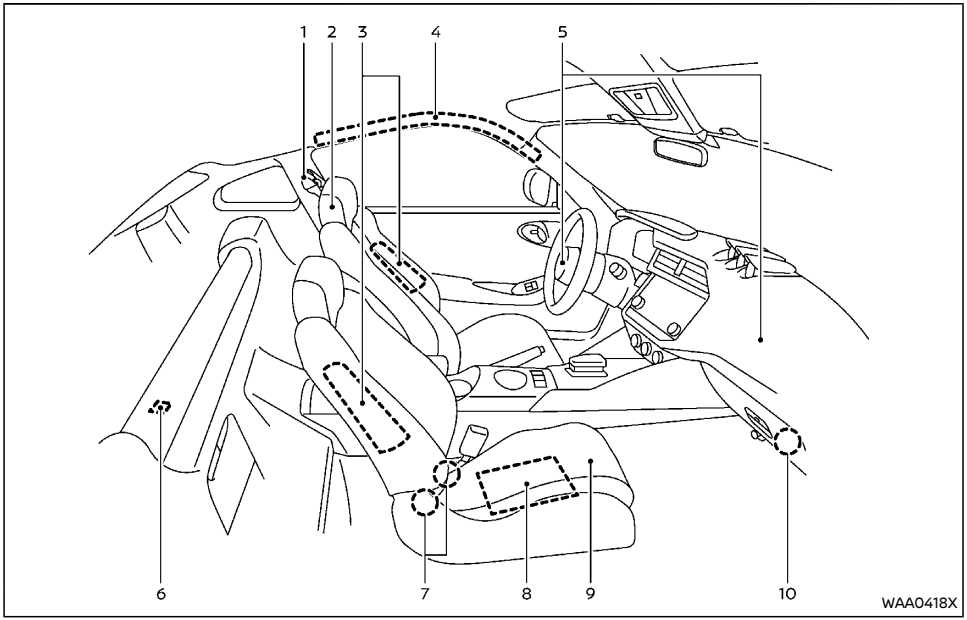
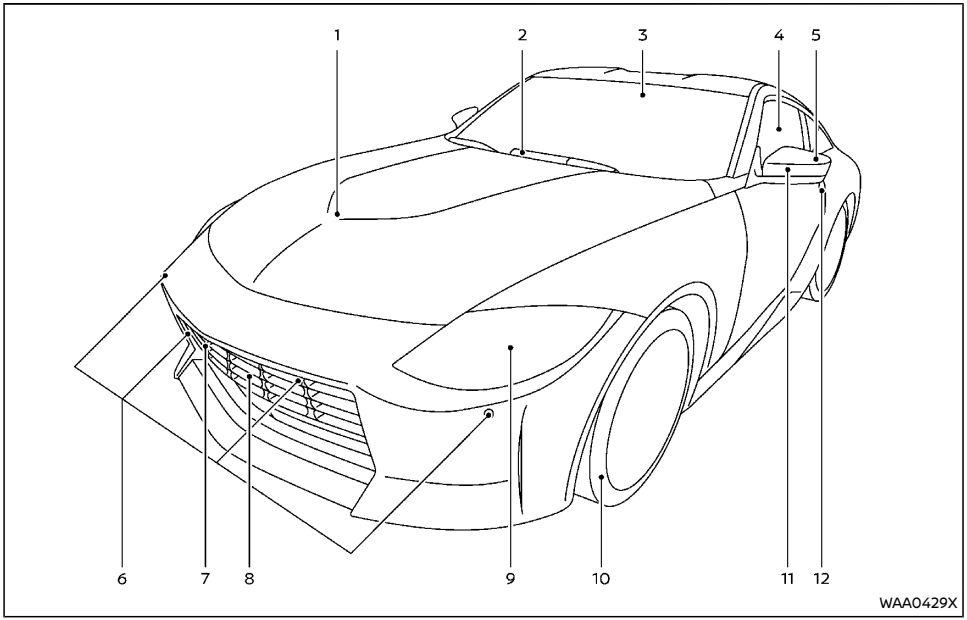
SEATS, SEAT BELTS AND SUPPLEMENTAL RESTRAINT SYSTEM (SRS)



1. Seat belts (P.1-8)
   — Pre-tensioner seat belt system (P.1-38)
2. Head restraints* (P.1-6)
3. Supplemental side-impact air bags (P.1-27)
4. Supplemental curtain side-impact air bags (P.1-27)
5. Supplemental front-impact air bags (P.1-27)
6. Child restraint anchor point (for top tether strap child restraint)* (P.1-23)
7. ISOFIX child restraint system* (P.1-23)
8. Occupant classification sensor (pattern sensor)* (P.1-31)
9. Front seats (P.1-2)
10. Front passenger air bag switch* (P.1-35)

*: if equipped

EXTERIOR FRONT



1. Hood (P.3-14)
2. Windshield wiper and washer
   — Switch operation (P.2-40)
   — Window washer fluid (P.8-15)
3. Front camera* (P.2-37, P.5-24, P.5-26, P.5-55)
4. Power windows (P.2-41)
5. Side turn signal lights (P.2-38)
6. Parking sensors (center and corner)
   — Parking sensor (sonar) system (P.5-77)
7. Recovery hook (P.6-16)
8. License plate installation (for Mexico) (P.9-11)
9. Headlights and turn signal lights (P.2-35)
10. Tires
    — Tires and wheels (P.8-23, P.9-7)
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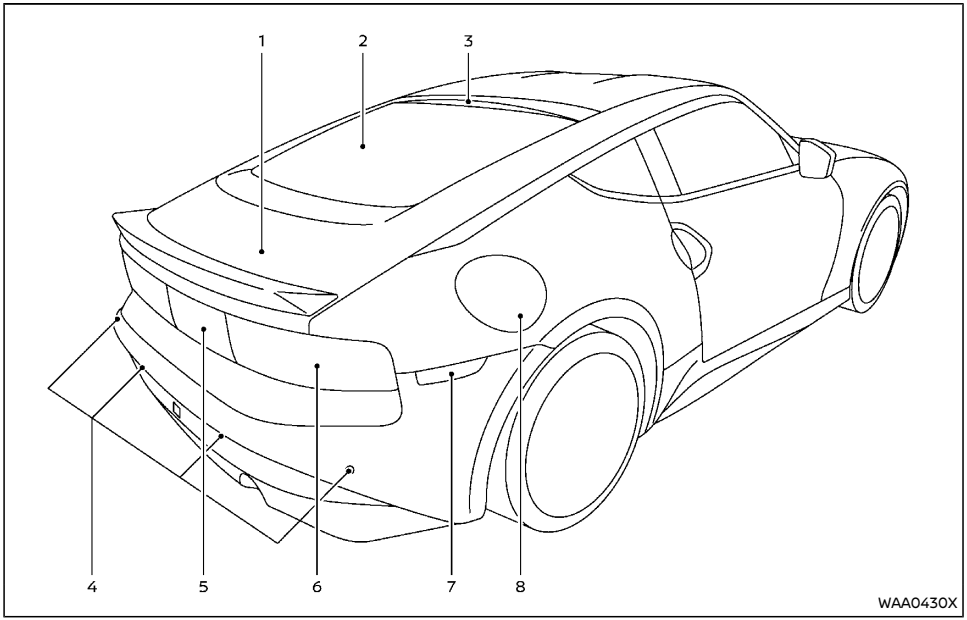
    — Tire Pressure Monitoring System (TPMS) (P.2-14, P.5-5)
11. Outside rearview mirrors (P.3-19)
12. Doors
    — Keys (P.3-2)
    — Door locks (P.3-3)
    — Intelligent Key system (P.3-4)
    — Remote keyless entry system (P.3-10)

*: if equipped

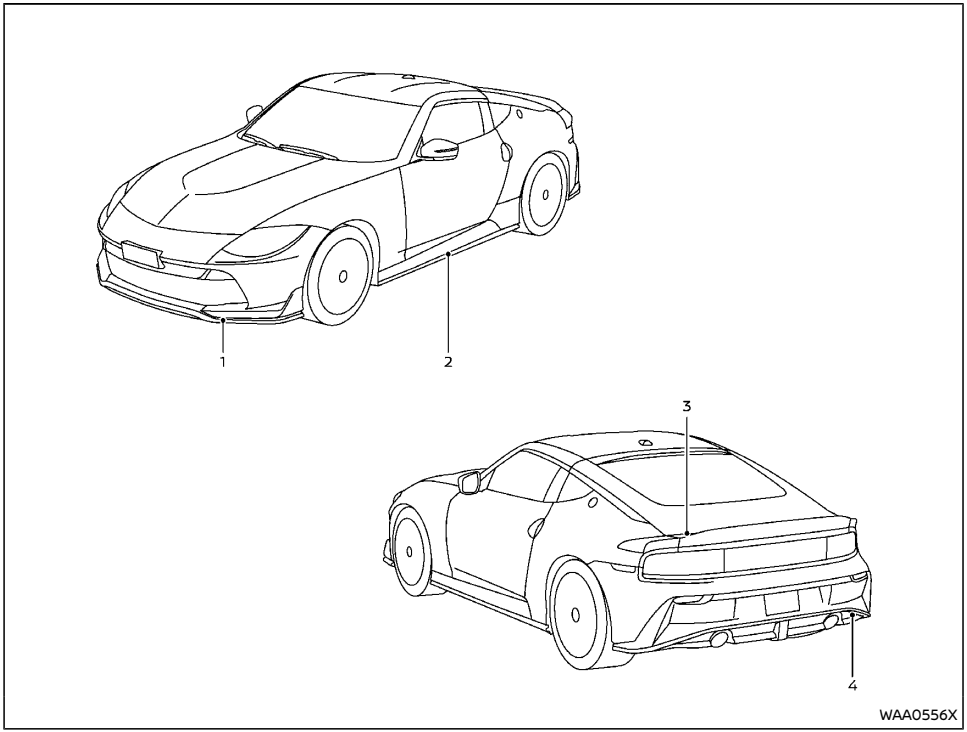
EXTERIOR REAR



1. Rear hatch (P.3-15)
   — Intelligent Key system (P.3-4)
   — Remote keyless entry system (P.3-10)
   — Rear hatch opener switch (P.3-15)
2. Rear window defogger (P.2-41)
3. High-mounted stop light (P.8-21)
4. Parking sensors (center and corner)
   — Parking sensor (sonar) system (P.5-77)
5. Rear view camera (P.4-2)
6. Rear combination light (P.8-21)
7. Rear side marker light* (P.8-21)
8. Fuel-filler lid
   — Operation (P.3-17)
   — Fuel information (P.9-4)

*: if equipped

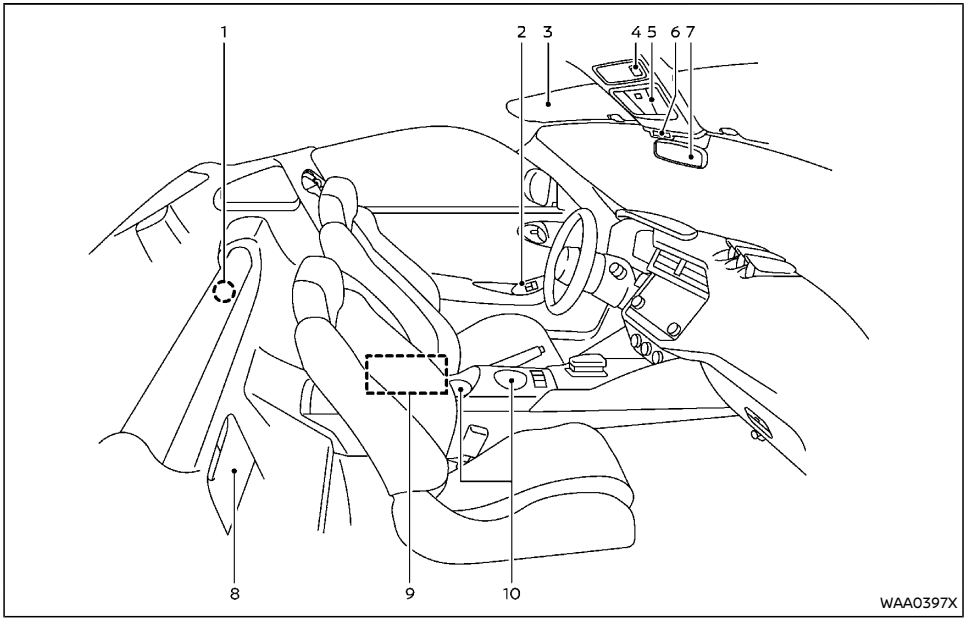
EXTERIOR (NISMO models)



For NISMO models, the vehicle parts listed below require special care or caution for treating. Refer to the additional information in each section.

1. Front bumper with an aerodynamic splitter (P.3-16, P.6-15)
2. Side sill extensions (P.3-16)
3. Rear spoiler (P.3-15, P.7-2)
4. Rear bumper with an aerodynamic diffuser (P.3-16, P.6-15)

PASSENGER COMPARTMENT

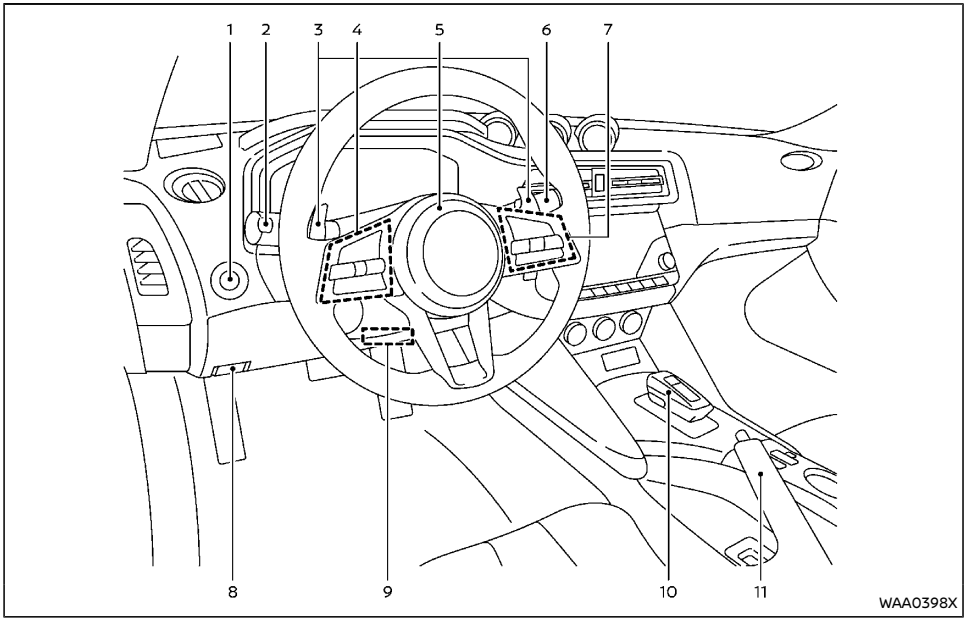


1. Secondary rear hatch release (P.3-15)
2. Door armrest
   — Power window switch (P.2-41)
   — Power door lock switch (P.3-4)
   — Outside rearview mirror remote control switch (driver's side) (P.3-19)
3. Sun visors (P.2-46)
4. SOS Call button* (P.1-42 or P.1-45)
5. Map lights (P.2-46)
6. Front passenger air bag status light* (P.1-31)
7. Inside rearview mirror (P.3-18)
   — Anti-glare adjustment (P.3-18)
   — HomeLink® universal transceiver* (P.2-48)
8. Rear parcel box (P.2-45)
9. Console box (P.2-44)
   — Power outlet (P.2-43)
10. Front cup holders (P.2-45)

*: if equipped

COCKPIT

LEFT-HAND DRIVE (LHD) MODEL

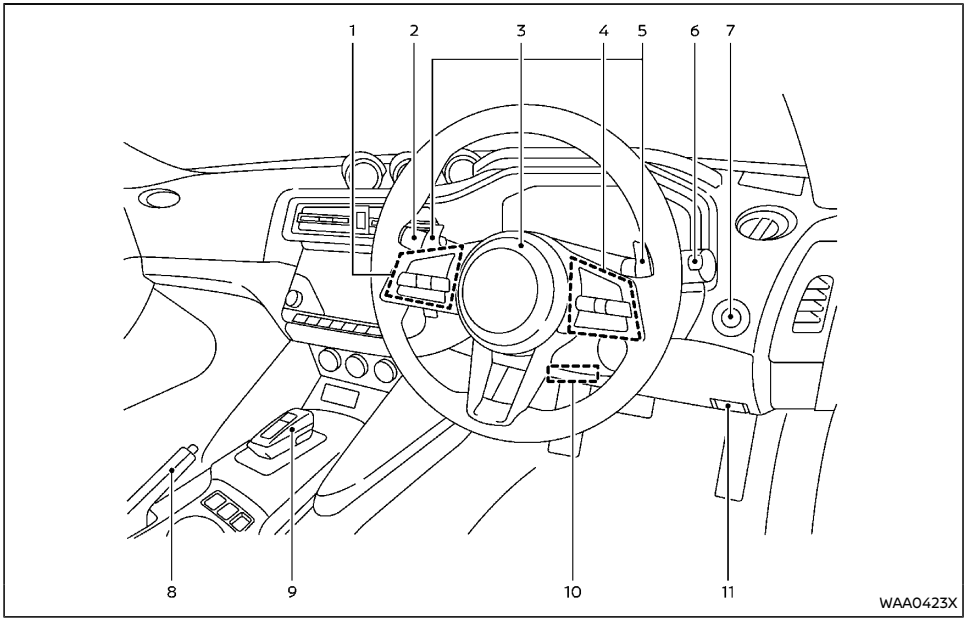


1. Vehicle Dynamic Control (VDC) OFF switch (P.5-21)
2. Headlight, fog light and turn signal switch
   — Headlight (P.2-35)
   — Fog light* (P.2-39)
   — Turn signal switch (P.2-38)
3. Paddle shifter (Automatic Transmission models) (P.5-14)
4. Steering-wheel-mounted controls (left side)
   — Audio control steering switch**
   — Vehicle information display control (P.2-18)
5. Steering wheel
   — Electric power steering (P.5-74)
   — Horn (P.2-41)
6. Windshield wiper and washer switch (P.2-40)
7. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P.5-40)
   — Intelligent Cruise Control (ICC) system switches* (P.5-41)
   — Bluetooth® Hands-Free Phone system control switch**
   — Voice recognition system switch**
8. Hood release handle (P.3-14)
9. Tilt and telescopic steering lock lever (P.3-18)
10. Shift lever
    — Automatic Transmission (AT) (P.5-11)
    — Manual Transmission (MT) (P.5-16)
11. Parking brake (P.3-20, P.5-72)

*: if equipped

**: Refer to the separate NissanConnect Owner's Manual.

RIGHT-HAND DRIVE (RHD) MODEL



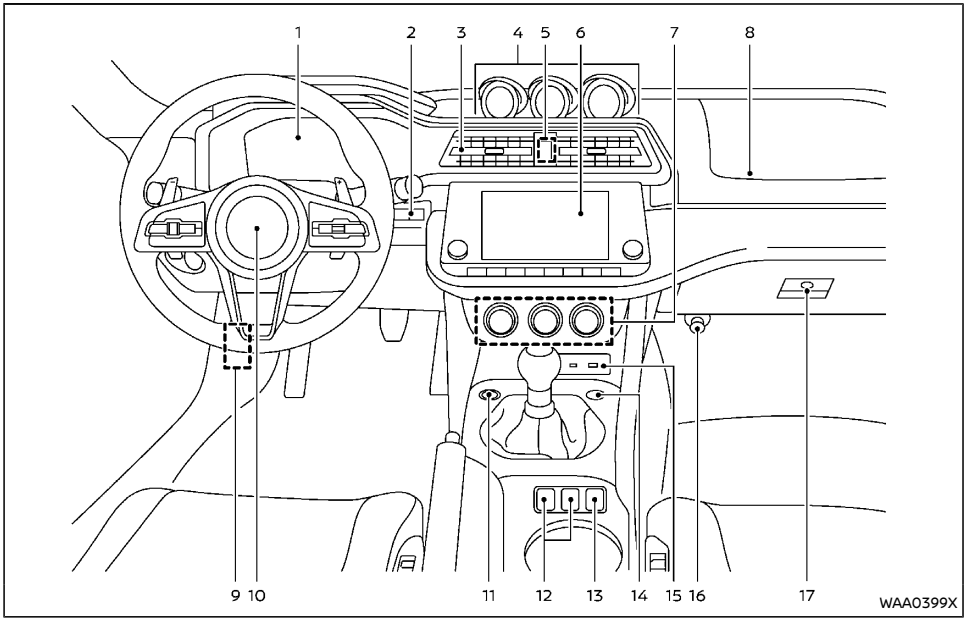
1. Steering-wheel-mounted controls (left side)
   — Audio control steering switch**
   — Vehicle information display control (P.2-18)
2. Windshield wiper and washer switch (P.2-40)
3. Steering wheel
   — Electric power steering (P.5-74)
   — Horn (P.2-41)
4. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P.5-40)
   — Intelligent Cruise Control (ICC) system switches* (P.5-41)
   — Bluetooth® Hands-Free Phone system control switch**
   — Voice recognition system switch**
5. Paddle shifter (Automatic Transmission models) (P.5-14)
6. Headlight, fog light and turn signal switch
   — Headlight (P.2-35)
   — Fog light* (P.2-39)
   — Turn signal switch (P.2-38)
7. Vehicle Dynamic Control (VDC) OFF switch (P.5-21)
8. Parking brake (P.3-20, P.5-72)
9. Shift lever
   — Automatic Transmission (AT) (P.5-11)
   — Manual Transmission (MT) (P.5-16)
10. Tilt and telescopic steering lock lever (P.3-18)
11. Hood release handle (P.3-14)

*: if equipped

**: Refer to the separate NissanConnect Owner's Manual.

INSTRUMENT PANEL

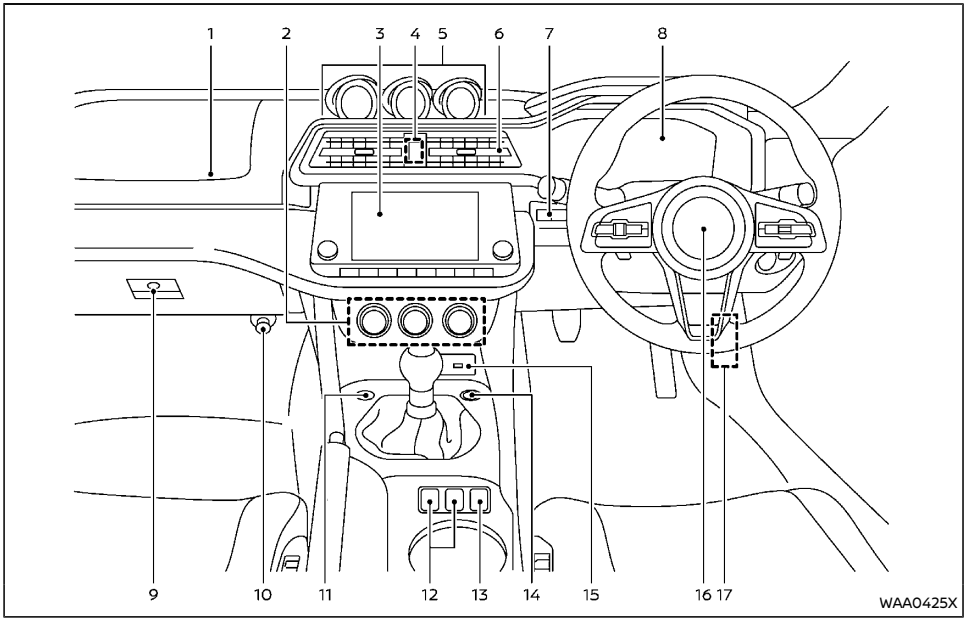
LEFT-HAND DRIVE (LHD) MODEL



1. Meters and gauges (P.2-7)
   — Clock (P.2-21)
2. Instrument brightness control (P.2-11) and TRIP/RESET switch for twin trip odometer (P.2-9)
3. Ventilator (P.4-7)
4. Triple meter (P.2-11)
5. Hazard indicator flasher switch (P.6-2)
6. Audio system*
   — RearView Monitor (P.4-2)
   — Bluetooth® Hands-Free Phone System*
7. Heater and air conditioner (P.4-8)
   — Rear window defogger switch (P.2-41)
8. Front passenger supplemental air bag (P.1-27)
9. Fuse box cover (P.8-19)
10. Driver supplemental air bag (P.1-27)
11. Push-button ignition switch (P.5-8)
12. Heated seat switch* (P.1-5)
13. Rear hatch release switch (P.3-15)
14. SynchroRev Match mode (S-MODE) switch (Manual Transmission models) (P.5-17) or Drive Mode Selector (Automatic Transmission models) (P.5-15)
15. USB (Universal Serial Bus) connection ports*
16. Power outlet (P.2-43)
17. Glove box (P.2-44)

*: Refer to the separate NissanConnect Owner's Manual.

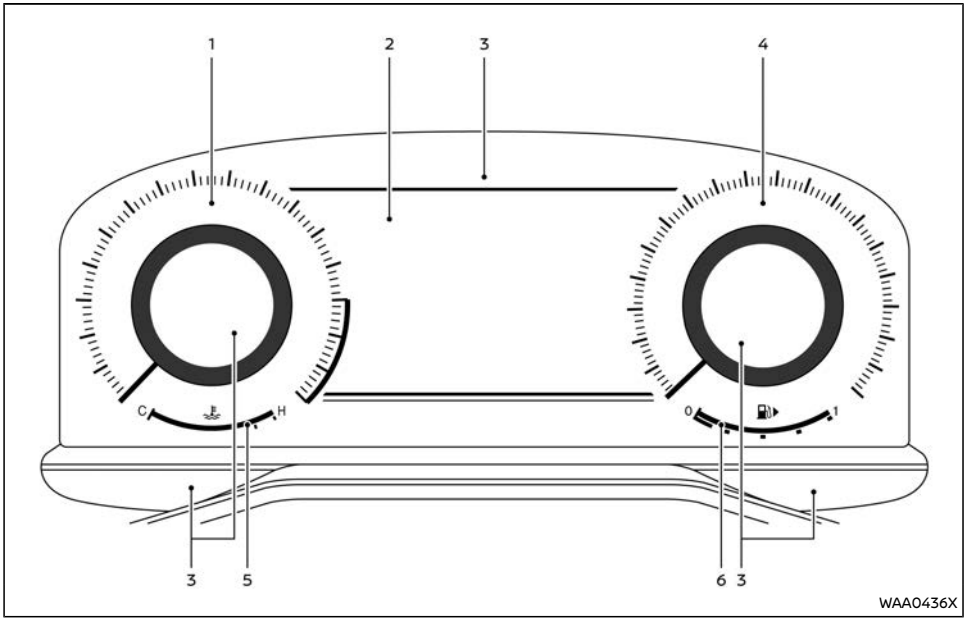
RIGHT-HAND DRIVE (RHD) MODEL

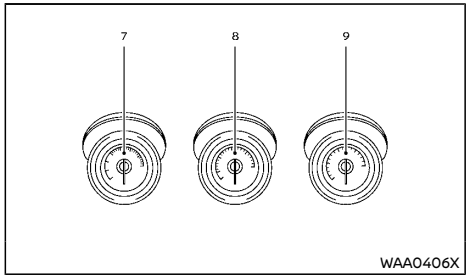


1. Front passenger supplemental air bag (P.1-27)
2. Heater and air conditioner (P.4-8)
   — Rear window defogger switch (P.2-41)
3. Audio system*
   — RearView Monitor (P.4-2)
   — Bluetooth® Hands-Free Phone System*
4. Hazard indicator flasher switch (P.6-2)
5. Triple meter (P.2-11)
6. Ventilator (P.4-7)
7. Instrument brightness control (P.2-11) and TRIP/RESET switch for twin trip odometer (P.2-9)
8. Meters and gauges (P.2-7)
   — Clock (P.2-21)
9. Glove box (P.2-44)
10. Power outlet (P.2-43)
11. SynchroRev Match mode (S-MODE) switch (Manual Transmission models) (P.5-17) or Drive Mode Selector (Automatic Transmission models) (P.5-15)
12. Heated seat switch* (P.1-5)
13. Rear hatch release switch (P.3-15)
14. Push-button ignition switch (P.5-8)
15. USB (Universal Serial Bus) connection ports*
16. Driver supplemental air bag (P.1-27)
17. Fuse box cover (P.8-19)

*: Refer to the separate NissanConnect Owner's Manual.

METERS AND GAUGES



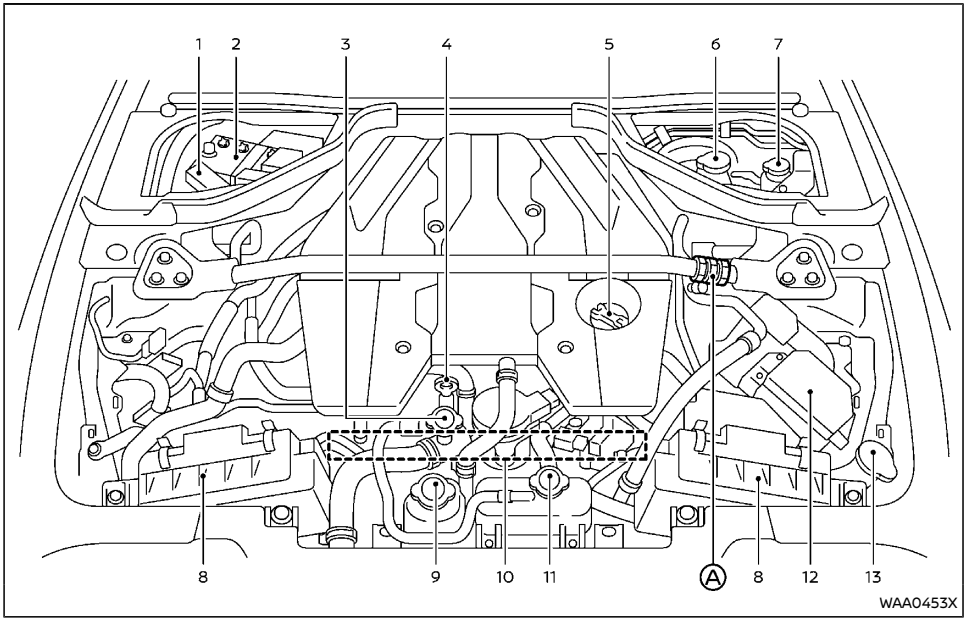


Triple meter (LHD model)

1. Tachometer (P.2-9)
2. Vehicle information display (P.2-18)
   — Odometer/twin trip odometer (P.2-8)
3. Warning and indicator lights (P.2-12)
4. Speedometer (P.2-8)
5. Engine coolant temperature gauge (P.2-9)
6. Fuel gauge (P.2-10)
7. Boostmeter (P.2-11)
8. Turbo speedometer (P.2-11)
9. Voltmeter (P.2-11)

ENGINE COMPARTMENT

VR30DDTT ENGINE MODEL



1. Fuse/fusible link holder* (P.8-19)
2. Battery* (P.8-16)
3. Radiator filler cap (P.8-6)
4. Engine oil dipstick (P.8-8)
5. Engine oil filler cap (P.8-8)
6. Brake fluid reservoir* (P.8-12)
7. Clutch fluid reservoir* (Manual Transmission model) (P.8-13)
8. Air cleaner (P.8-13)
9. Intercooler cooling reservoir (P.8-7)
10. Drive belt location (P.8-10)
11. Engine coolant reservoir (P.8-6)
12. Fuse/fusible link holder (P.8-19)
13. Window washer fluid reservoir (P.8-15)

*: The layout illustrated is for the Left-Hand Drive (LHD) model. On the Right-Hand Drive (RHD) model, these components are located on the opposite side.

Do not tamper with the strut tower bar adjustment Ⓐ. The strut tower bar has been adjusted to the most suitable position at the factory.

NOTE:

Your vehicle may not be equipped with an engine cover.

1 Safety — seats, seat belts and supplemental restraint system

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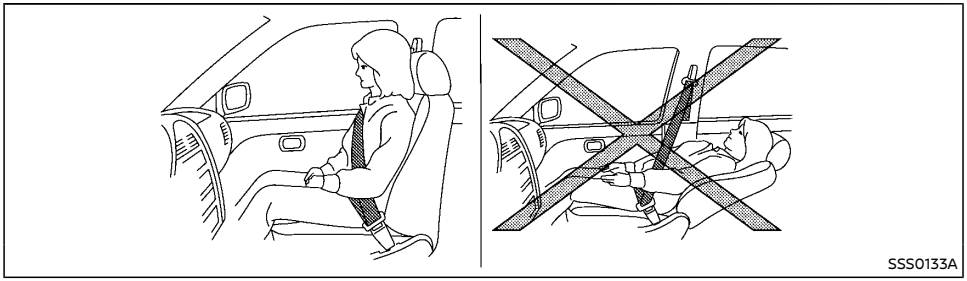
SEATS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WARNING:

- **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.1-8).)**
- **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:

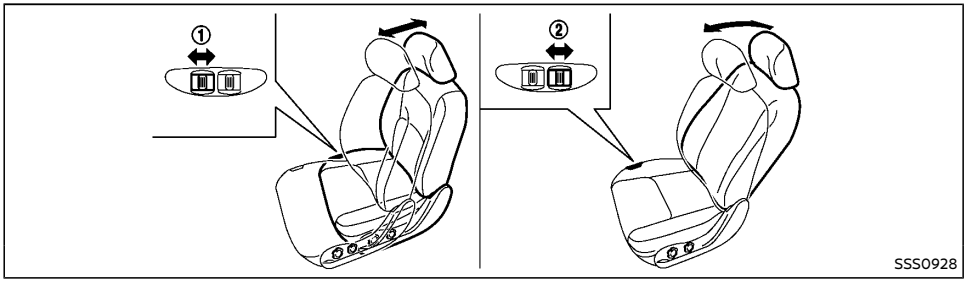
Do not adjust the driver's seat while driving so that full attention may be given to vehicle operation.

Power seat adjustment (if equipped)

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.

Forward and backward:



Move forward or backward the adjusting switch ① to the desired position.

Reclining:

Move forward or backward the adjusting switch ② to the desired position.

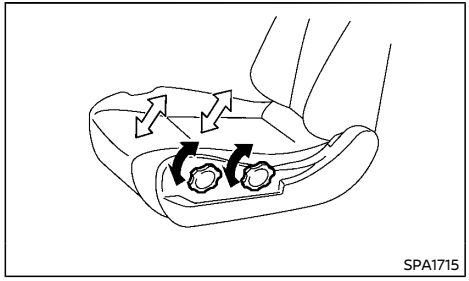
The reclining feature allows the adjustment of the seatback for occupants of different sizes to help obtain the proper seat belt fit. (See "Seat belts" (P.1-8).)

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

WARNING:

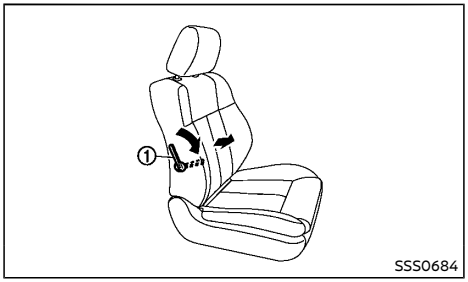
The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and upright in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.

Seat lifter:



Turn either dial to adjust the angle and height of the seat cushion to the desired position.

Lumbar support:



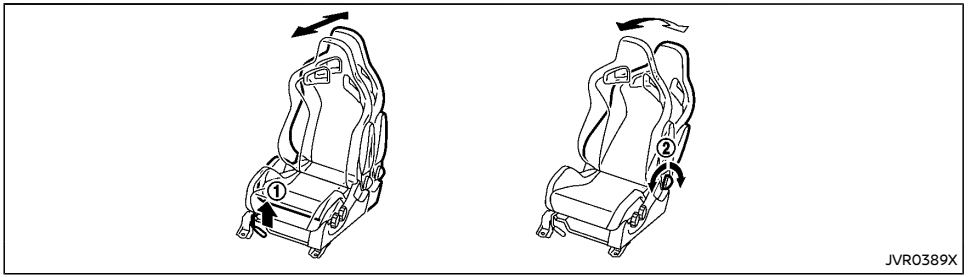
The lumbar support feature provides lower back support to the driver.

Move the lever ① up or down to adjust the seat lumbar area.

Manual seat adjustment (if equipped)

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:

Pull the lever up ① while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.

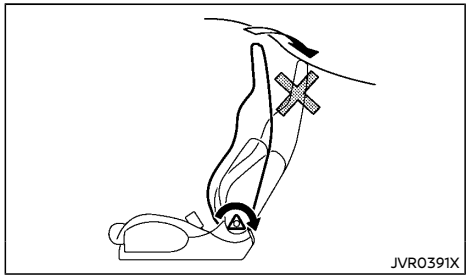
Reclining:

To recline the seatback, turn the adjusting dial ② toward the rear of the vehicle and lean back. To bring the seatback forward, turn the adjusting dial toward the front of the vehicle and lean your body forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See "Precautions on seat belt usage" (P.1-8).)

WARNING:

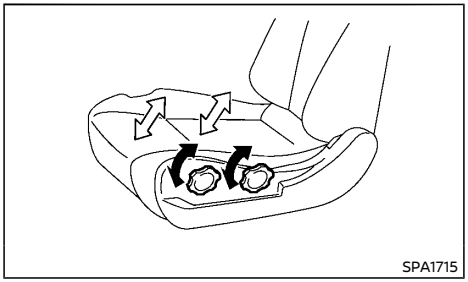
The seatback should not be reclined any more than needed for comfort. Seat belts are most effective when the passenger sits well back and upright in the seat. If the seatback is reclined, the risk of sliding under the lap belt and being injured is increased.



NOTE:

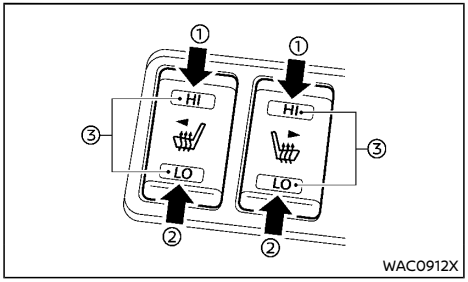
When reclining the seat, do not allow the seatback to contact the roof. Doing so may leave temporary indentations on the seat.

Seat lifter:


SPA1715

Turn either dial to adjust the angle and height of the seat cushion to the desired position.

Heated seats (if equipped)



WAC0912X

The front seats can be warmed by built-in heaters. The switches located on the center console can be operated independently of each other.

1. Start the engine.
2. Select heat range.
   - For high heat, push the HI (High) side of the switch ①.
   - For low heat, push the LO (Low) side of the switch ②.
   - The indicator light ③ will illuminate when low or high is selected.
3. To turn off the heater, return the switch to the level position. Make sure the indicator light turns off.

The heater is controlled by a thermostat, automatically turning the heater on and off. 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 switch.

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, 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 seat 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, turn the switch off and have the system checked by a NISSAN dealer.**

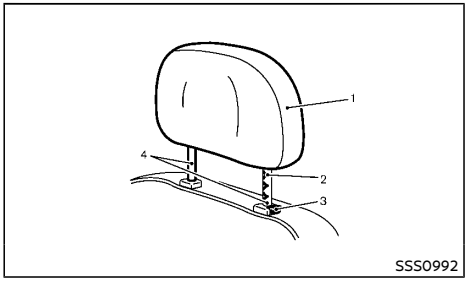
HEAD RESTRAINTS (if equipped)

WARNING:

Head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjustable head restraint 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 restraint has 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.

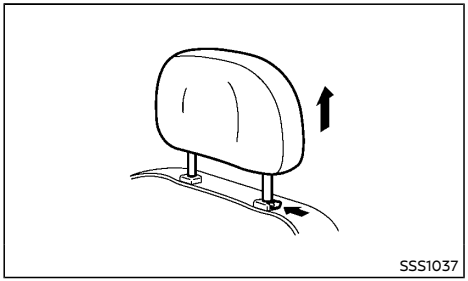
ADJUSTABLE HEAD RESTRAINT COMPONENTS



SSS0992

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

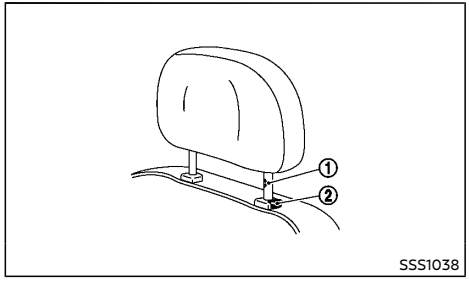
REMOVE


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.

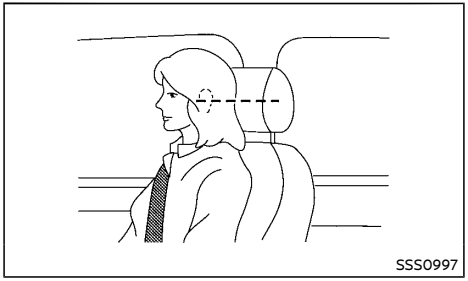
INSTALL



SSS1038

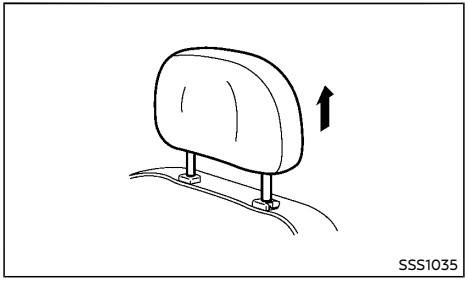
1. Align the head restraint stalks with the holes in the seat. Make sure that the head restraint is facing the correct direction. The stalk with the notch ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint down.
3. Properly adjust the head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

ADJUST


SSS0997

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.

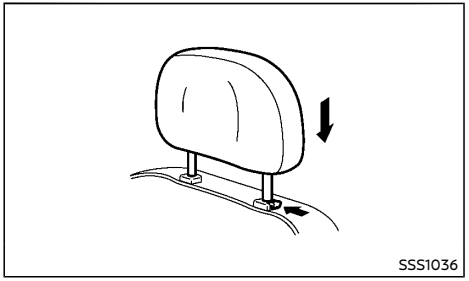
Raise


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


SSS1036

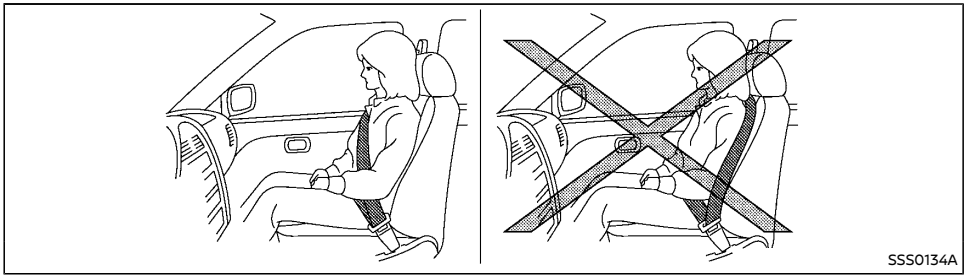
To lower, push and hold the lock knob and push the head restraint down.

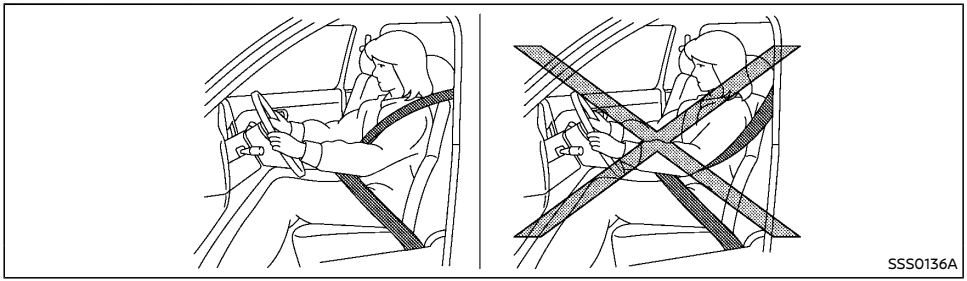
Make sure the head restraint is positioned so the lock knob is engaged in the notch before riding in that designated seating position.

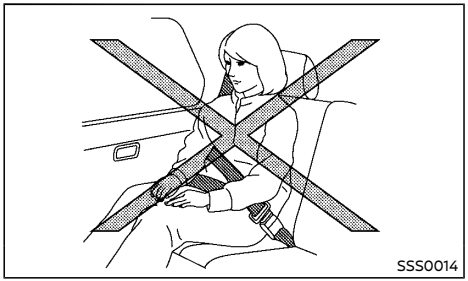
SEAT BELTS

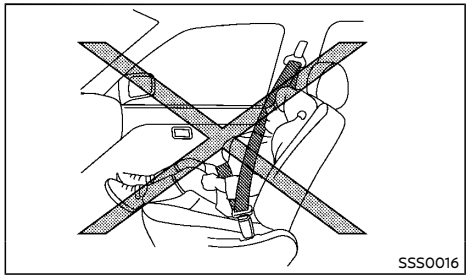
PRECAUTIONS ON SEAT BELT USAGE

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 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.**
- **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.**
- **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.**
- **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.**

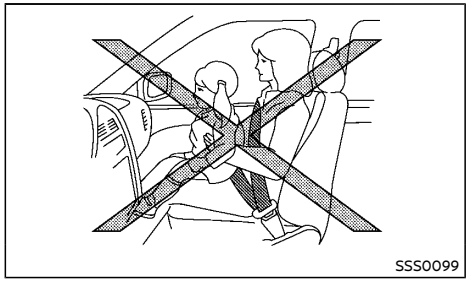
CHILD SAFETY

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 luggage 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

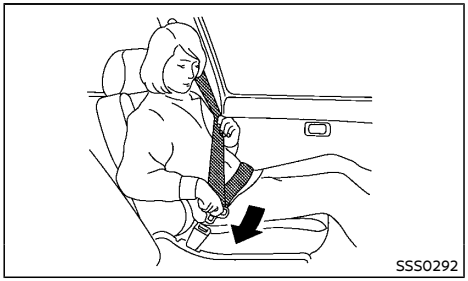
NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact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

INJURED PERSONS

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

THREE-POINT TYPE SEAT BELTS

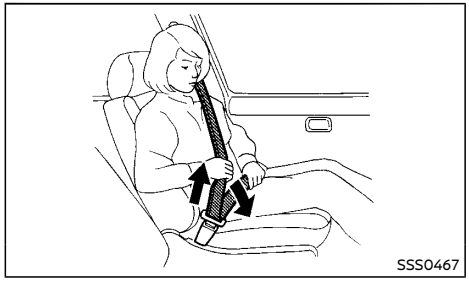
Fastening seat belts


SSS0292

WARNING:

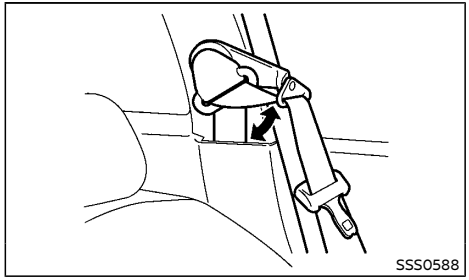
The seatback should not be in a reclined position any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat.

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 arm


SSS0588

Before fastening the seat belt, pull the shoulder belt arm forward until it clicks at the detent

position. Pulling the arm forward will allow an easy access to the belt.

Unfastening seat belts

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

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.

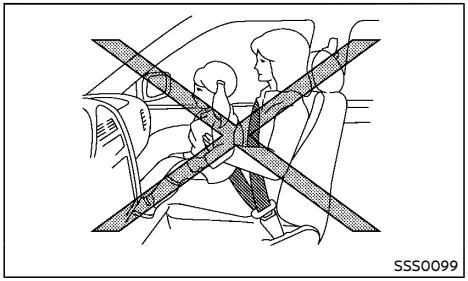
SEAT BELT MAINTENANCE

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.

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.**
- **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 restraints 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.**
- **Adjustable seatbacks should be positioned to fit the child restraint, but as upright as possible.**
- **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 seat belt as necessary 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.**
- **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.**
- **Check the child restraint in your vehicle to be sure that it is compatible with the vehicle's seat belt.**

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 (if equipped)

WARNING:

In vehicles equipped with front passenger's air bag and side air bag systems, you should not let any infants or small children sit in the front passenger's seat as the air bag may cause serious injury in case of deployment during a collision.

NOTE:

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

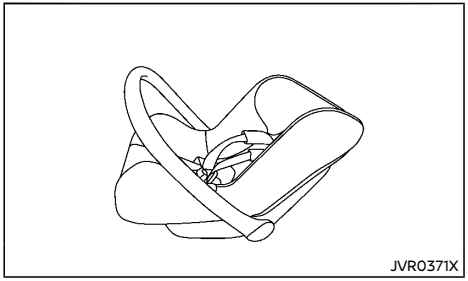
When selecting any child restraint, keep the following points in mind:

- 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.

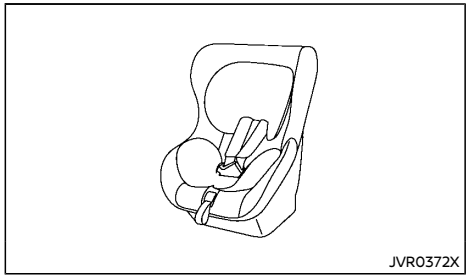
Mass group of child seat

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

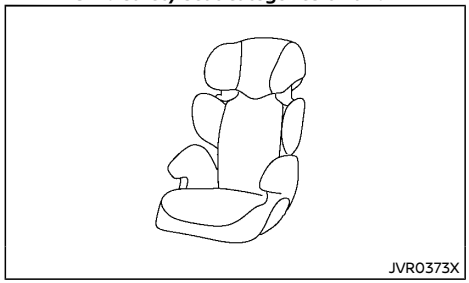
Kind of child seats (example):



Child safety seat categories 0 and 0+



Child safety seat categories 0+ and I



Child safety seat categories II and III

Approved child restraint positions (for Philippines and the Middle East)

The following restriction is applied when using child restraints varying by infants weight and installation position (except for ISOFIX child restraint).

Mass group	Seating position	
	Front Passenger Airbag activation	Front Passenger Airbag deactivation
0 (< 10 kg)	X	X
0+ (< 13 kg)	X	X
I (9 - 18 kg)	X	X
II (15 - 25 kg)	X	X
III (22 - 36 kg)	X	X

X: Seat position not suitable for child restraint.

List of approved ISOFIX and specific Universal child restraints (for Philippines and the Middle East)

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

Except for NISMO models:

Mass Group		Size	Fixture	Seating position	
				Front Passenger Airbag activation	Front Passenger Airbag deactivation
Carrycot		F	ISO/L1	X	X
		G	ISO/L2	X	X
0	< 10 kg	E	ISO/R1	X	X
0+	< 13 kg	E	ISO/R1	X	X
		D	ISO/R2	X	X
		C	ISO/R3	X	X
I	9 - 18 kg	D	ISO/R2	X	X
		C	ISO/R3	X	X
		B	ISO/F2	X	IUF*1
		B1	ISO/F2X	X	IUF*1
		A	ISO/F3	X	X
II	15 - 25 kg		—	X	IL*1
III	22 - 36 kg		—	X	IL*1

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.

X: not suitable for child restraint system

*1: If you install a child seat before remove head restraint

NISMO models:

Mass Group		Size	Fixture	Seating position	
				Front Passenger Airbag activation	Front Passenger Airbag deactivation
Carrycot		F	ISO/L1	X	X
		G	ISO/L2	X	X
0	< 10 kg	E	ISO/R1	X	X
0+	< 13 kg	E	ISO/R1	X	X
		D	ISO/R2	X	X
		C	ISO/R3	X	X
I	9 - 18 kg	D	ISO/R2	X	X
		C	ISO/R3	X	X
		B	ISO/F2	X	X
		B1	ISO/F2X	X	X
		A	ISO/F3	X	X
II	15 - 25 kg		—	X	X
III	22 - 36 kg		—	X	X

X: not suitable for child restraint system

List of approved ISOFIX child restraint systems (for Philippines and the Middle East)

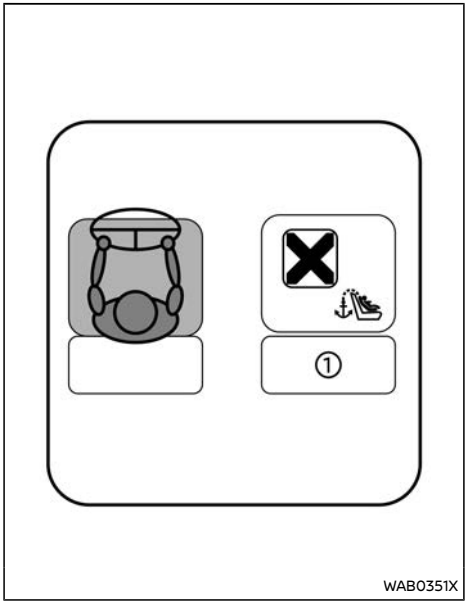
Except for NISMO models:

Weight group		Facing position	Name of CRS	Fixture of CRS	Category
II, III	15 - 36 kg	Front facing	Britax KID-FIX2 R	ISOFIX	—

Selecting the child restraint system for each seating position (for Mexico, Australia and New Zealand)

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

For Mexico:



	Top tether anchorage equipment seats
	Not suitable for attaching a child restraint system

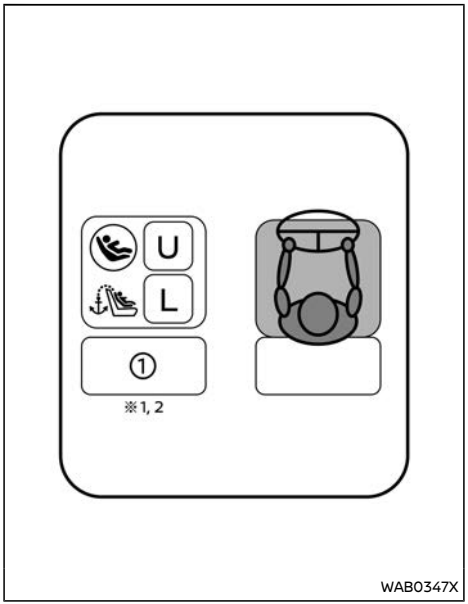
Detailed information for child restraint system installation (for Mexico):

Seat position	Front	
	①	
	Airbag Activation	Airbag Deactivation
Seating position suitable for universal belted (yes/no)	no	no
i-Size seating position (yes/no)	no	no
Seating position suitable for lateral fixture (L1/L2)	—	—
Largest suitable rearward facing fixture (R1/R2X/R2/R3)	—	—
Largest suitable forward facing fixture (F2X/F2/F3)	—	—
Largest suitable booster fixture (B2/B3)	—	—

List of recommended child restraints (for Mexico):

AGE (approx.)	Weight (approx.)	Height (approx.)	CRS Mass Category	Recommend CRS	CRS suitable seat position	
					① Airbag Activation	① Airbag Deactivation
0 - 12 months	Up to 10 kg	< 75 cm	0	—	—	—
0 - 18 months	Up to 13 kg	< 85 cm	0+	—	—	—
9 months - 4 years old	9 - 18 kg	76 - 105 cm	I	—	—	—
4 - 6 years old	15 - 25 kg	100 - 125 cm	II	—	—	—
6 - 10 years old	22 - 36 kg	> 125 cm	III	—	—	—

For Australia and New Zealand (except for NISMO models):



U	Suitable for universal child restraint that is fastened with vehicle seat belt
	Suitable for ISOFIX child restraint
	Top tether anchorage equipment seats
L	Suitable for child safety seats listed in the attached list

*1: Move the head restraint to the upper most 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

*2: Adjust the seat slide to the rear most position

Detailed information for child restraint system installation (for Australia and New Zealand):

Except for NISMO models

Seat position	Front	
	①	
	Airbag Activation	Airbag Deactivation
Seating position suitable for universal belted (yes/no)	no	yes
i-Size seating position (yes/no)	no	no
Seating position suitable for lateral fixture (L1/L2)	—	—
Largest suitable rearward facing fixture (R1/R2X/R2/R3)	—	—
Largest suitable forward facing fixture (F2X/F2/F3)	—	F2X
Largest suitable booster fixture (B2/B3)	—	—

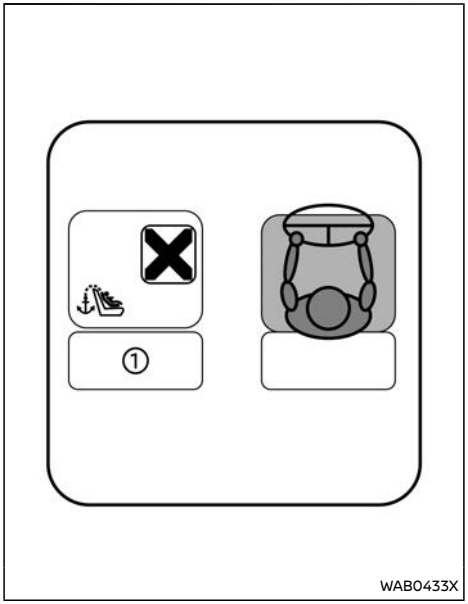
List of recommended child restraints (for Australia and New Zealand):

Except for NISMO models

TYPE		AGE (approx)	Height (approx)		Recommend CRS		ActualCRS suitable seat position	
							①	
					Universal	ISOFIX	Airbag Activation	Airbag 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		Frontward	—	—		
C	C1	4 - 10 years old		Frontward	—	—		
	C2	7 - 10 years old		Frontward	—	—		
D		6 months - 4 years old		Frontward	—	—		
E		4 - 8 years old	< 128 cm	Booster seat	Britax Safe n Sound Hi-Liner SG (Forward)	—	N/A	Yes*1
F		4 - 10 years old	< 138 cm	Booster seat	Britax Safe n Sound Kid Guard (Forward)	—	N/A	Yes*1
G		6 months - 8 years old		Frontward	—	—		
H		4 - 10 years old			—	—		

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

For Australia and New Zealand (NISMO models):



	Top tether anchorage equipment seats
	Not suitable for attaching a child restraint system

Detailed information for child restraint system installation (for Australia and New Zealand):

For NISMO models

Seat position	Front	
	①	
	Airbag Activation	Airbag Deactivation
Seating position suitable for universal belted (yes/no)	no	no
i-Size seating position (yes/no)	no	no
Seating position suitable for lateral fixture (L1/L2)	—	—
Largest suitable rearward facing fixture (R1/R2X/R2/R3)	—	—
Largest suitable forward facing fixture (F2X/F2/F3)	—	—
Largest suitable booster fixture (B2/B3)	—	—

List of recommended child restraints (for Australia and New Zealand):

For NISMO models

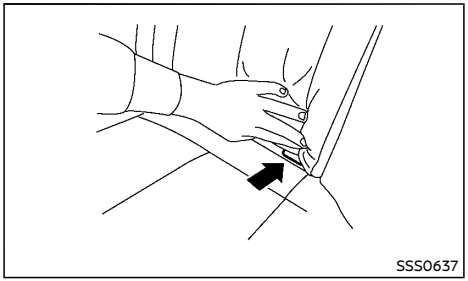
TYPE		AGE (approx)	Height (approx)		Recommend CRS		ActualCRS suitable seat position ①	
					Universal	ISOFIX	Airbag Activation	Airbag Deactivation
A	A1	6 months	< 70 cm	Rearward	—	—		
	A2	12 months	< 80 cm	Rearward	—	—		
	A3	6 months	< 70 cm	Transversely installation	—	—		
	A4	0 - 30 months		Rearward	—	—		
B		6 months - 4 years old		Frontward	—	—		
C	C1	4 - 10 years old		Frontward	—	—		
	C2	7 - 10 years old		Frontward	—	—		
D		6 months - 4 years old		Frontward	—	—		
E		4 - 8 years old	< 128 cm	Booster seat	—	—		
F		4 - 10 years old	< 138 cm	Booster seat	—	—		
G		6 months - 8 years old		Frontward	—	—		
H		4 - 10 years old			—	—		

ISOFIX CHILD RESTRAINT SYSTEM (if equipped)

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

ISOFIX lower anchor point locations

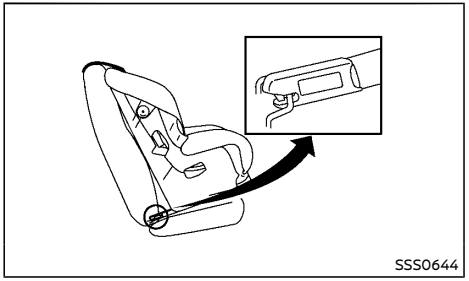
The ISOFIX anchor points are provided to install child restraints in the front passenger's seating positions only.



ISOFIX lower anchor location

The ISOFIX anchors are located at the seat cushion near the seatback.

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" (P.1-24).)

CHILD RESTRAINT ANCHORAGE (if equipped)

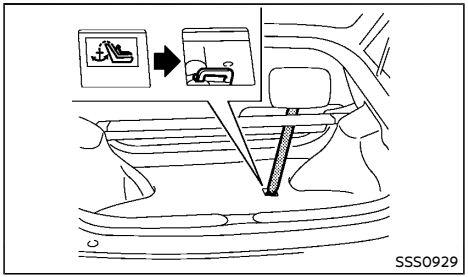
When installing a child restraint system, carefully read and follow the instructions in this manual and those supplied with the child restraint system.

WARNING:

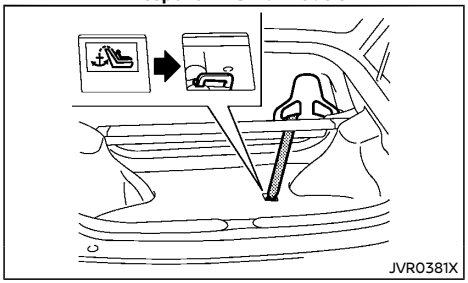
- **Child restraint anchorage is designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts, harnesses or for attaching other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. 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 items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**

Anchorage location

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.



Except for NISMO models



NISMO models

The anchorage is located on the floor of the cargo room.

Flip down the flap marked with a label as shown in the illustration.

CHILD RESTRAINT INSTALLATION USING ISOFIX (if equipped)

WARNING:

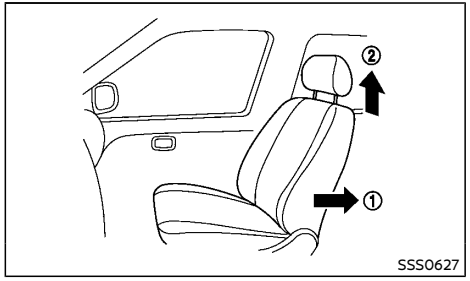
- **Attach ISOFIX child restraints only at the specified locations. For the ISOFIX lower anchor locations, see "ISOFIX child restraint system" (P.1-23). If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **Inspect the lower anchors by inserting 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 front passenger's seat

Front-facing:

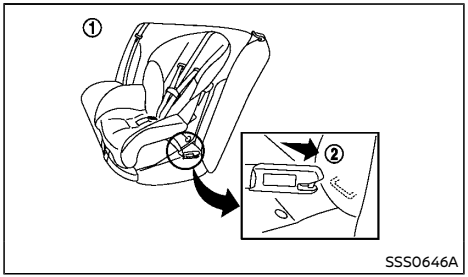
Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a front-facing child restraint on the front outboard seats using ISOFIX:

1. For models with front passenger air bag switch: Turn off the front passenger's air bag using the front passenger air bag switch. (See "Supplemental air bag systems" (P.1-31).) Place the ignition switch in the "ON" position and make sure that the front passenger air bag status light (OFF) illuminates.



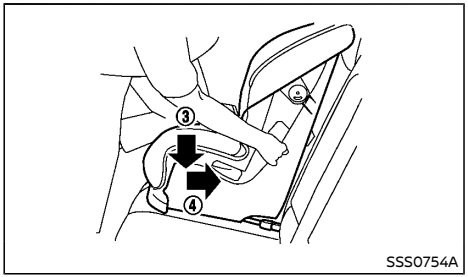
Front-facing: Steps 2 and 3

2. Move the seat to the rearmost position ①.
3. Adjust the head restraint to its highest position ②.



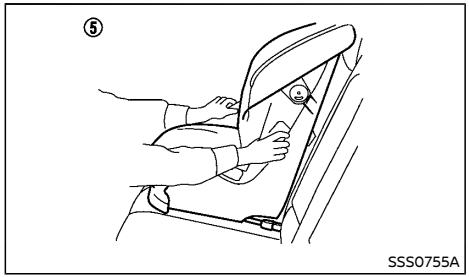
Front-facing: Steps 4 and 5

4. Position the child restraint on the seat ①.
5. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.
6. 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.1-6).) 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 7

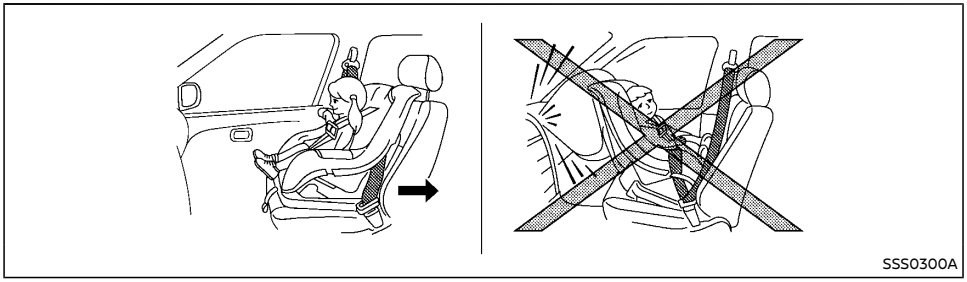
7. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback.
8. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See "Child restraint anchorage" (P.1-23).)
9. 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 10

10. 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.
11. 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 10.

INSTALLATION OF CHILD RESTRAINT SYSTEM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WARNING:

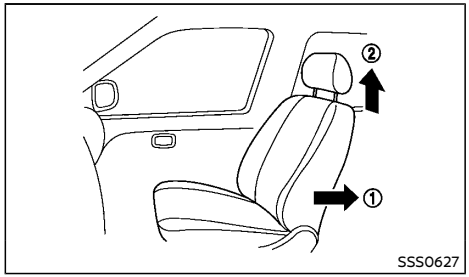
- **Never install a rear-facing child restraint on the front passenger's seat when the front passenger's air bag is available. Supplemental front-impact air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front-impact air bags in an accident and could seriously injure or kill your child.**
- **If you must install a front-facing 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.**

Installation on front passenger's seat

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 three-point type seat belt without automatic locking mode:

1. For models with front passenger air bag switch: Turn off the front passenger's air bag using the front passenger air bag switch. (See "Supplemental air bag systems" (P.1-31).) Place the ignition switch in the "ON" position and make sure that the front passenger air bag status light (OFF) illuminates.



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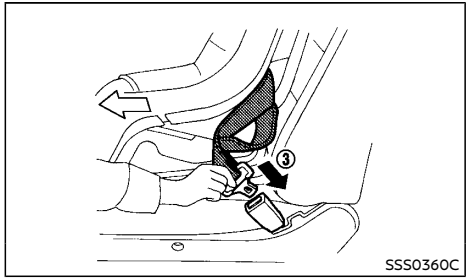
Front-facing: Steps 2 and 3

2. Move the seat to the rearmost position ①.
3. Adjust the head restraint to its highest position ②.
4. Position the child restraint on the seat.



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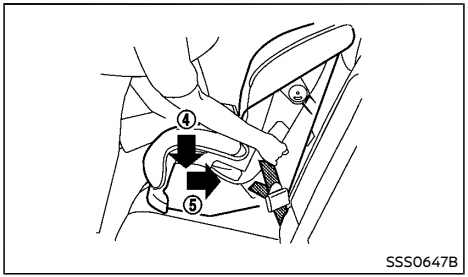
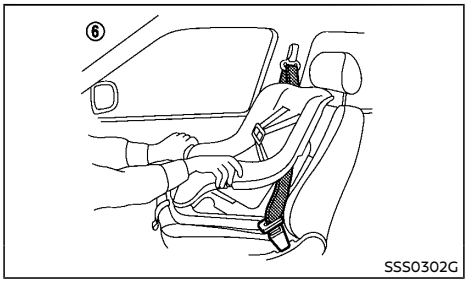
Front-facing: Step 5

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 6 through 8.

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 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 area 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 area 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.

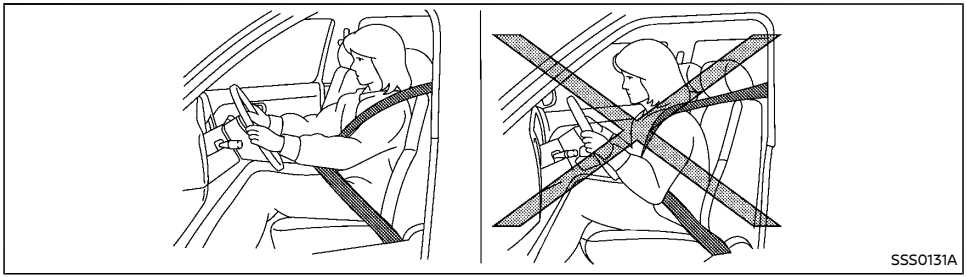
Supplemental curtain side-impact air bag system

This system can help cushion the impact force to the head of the driver and front passenger 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 driver's and passenger's 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.1-8).) 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 air bags will deflate quickly after deployment.

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 "Warning lights, indicator lights and audible reminders" (P.2-12).)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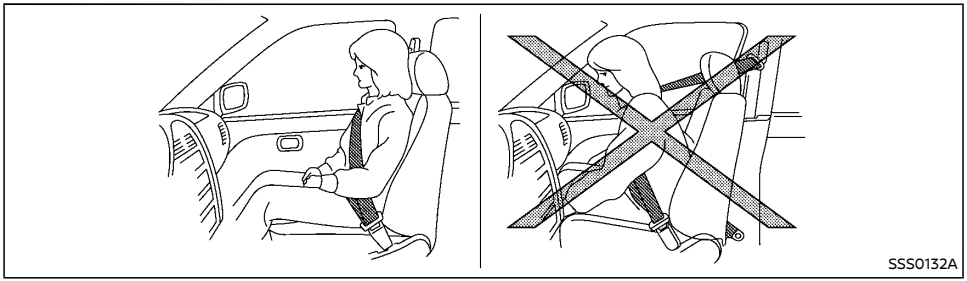
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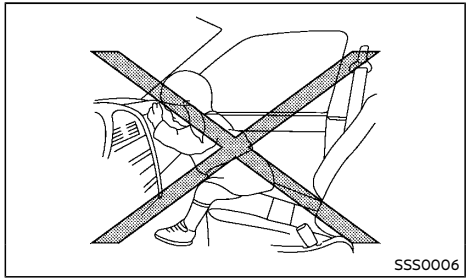
WARNING:

- **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.**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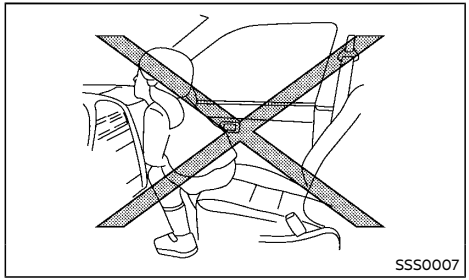
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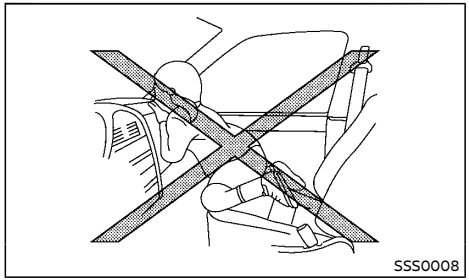
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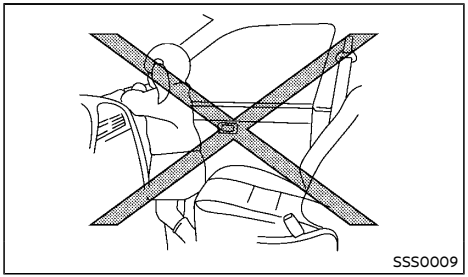
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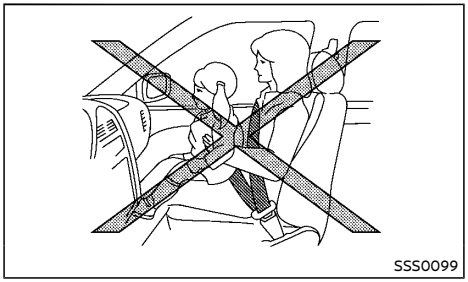
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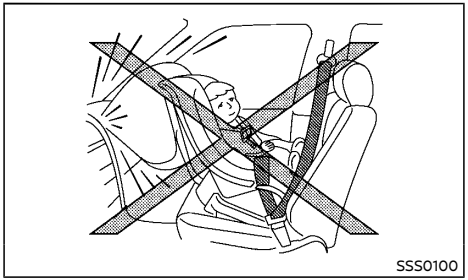
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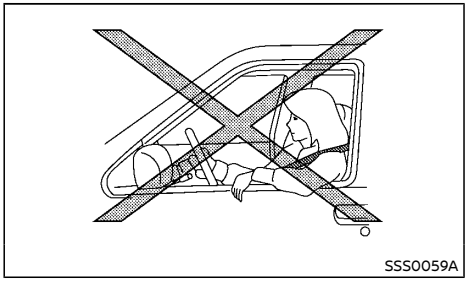
WARNING:

- **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 in the front seat. An inflating supplemental front-impact air bag could seriously injure or kill your child. (See "Child restraints" (P.1-11).)**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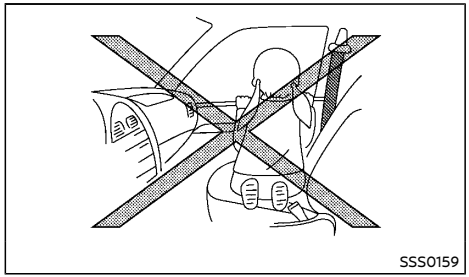
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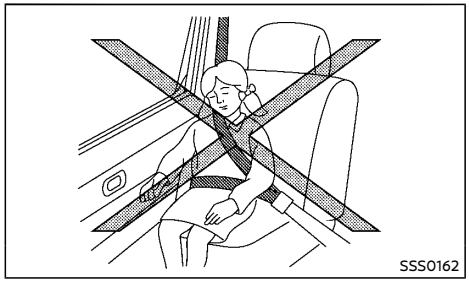
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WARNING:

- **The supplemental side-impact air bags 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 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 side-impact air bags and supplemental**

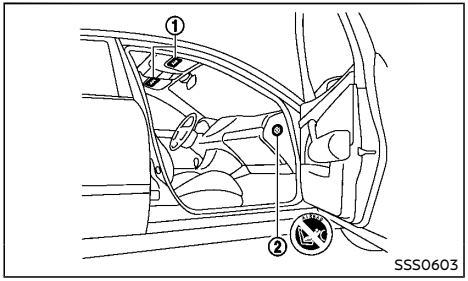
curtain side-impact air bags inflate with great force. If you and your passengers are unrestrained, leaning forward, sitting sideways, or out of position in any way, you and your passengers are at greater risk of injury or death in an accident.

- **Do not allow anyone to place their hands, legs or face near the supplemental side-impact air bags and supplemental curtain side-impact air bags located on the sides of the seatback of the front seats or near the side roof rails. Do not allow anyone sitting in the front 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.**
- **Do not use seat covers on the front seatbacks. They may interfere with the 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 front seat belt retractors and anchors, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants. (See "Pre-tensioner seat belt system" (P.1-38).)

Air bag warning labels



Label locations

Warning labels about the supplemental front-impact air bag system and supplemental side-impact 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 passenger's sun visor.

The warning label ② (if equipped) is located on the side of the passenger's side instrument panel.

The label(s) warns you not to fit a rear-facing child restraint system on the front passenger seat as such a restraint system used in this position could cause serious injury to the infant in case of air bag deployment during a collision.



① Air bag warning label

The label ① 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."

"Extreme Hazard! Do not use a rearward facing child restraint on a seat protected by an airbag in front of it!"

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.1-11).

SRS air bag warning light



The SRS air bag warning light, displaying in the instrument panel, monitors the circuits for the air bag systems, pre-tensioners and all related wiring.

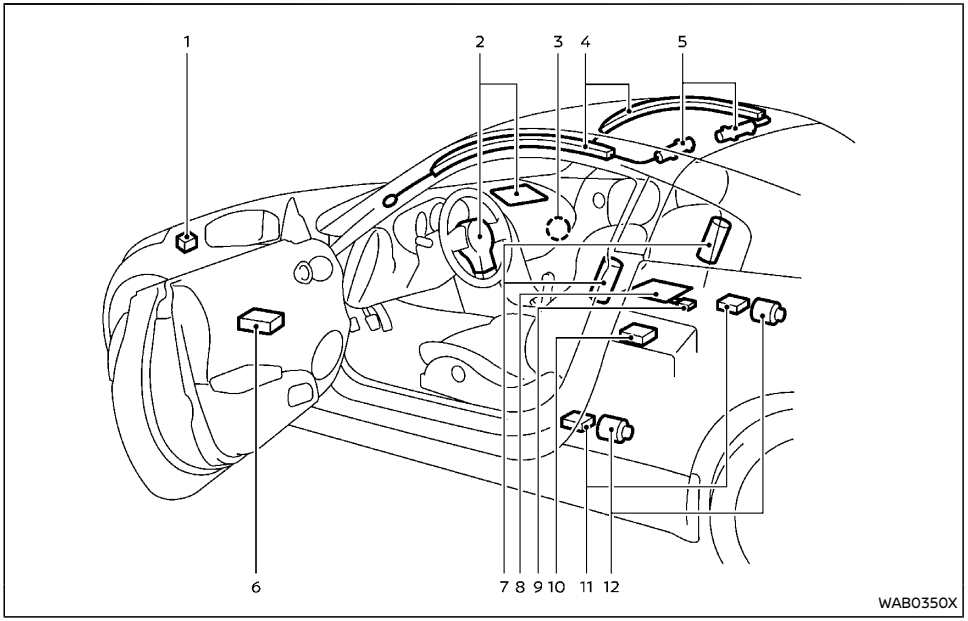
When the ignition switch is in the "ON" position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS air bag systems are operational.

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 flashes intermittently.
- The SRS air bag warning light does not illuminate at all.

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

SUPPLEMENTAL AIR BAG SYSTEMS



1. Crash zone sensor
2. Supplemental front air bag modules
3. Front passenger air bag switch (if equipped)
4. Supplemental curtain side-impact air bags
5. Supplemental curtain side-impact air bag inflators
6. Door satellite sensors
7. Supplemental side air bag modules
8. Occupant classification sensor (pattern sensor) (for Mexico)
9. Occupant classification system control unit (for Mexico)
10. Air bag Control Unit (ACU)
11. Satellite sensors
12. Seat belt pre-tensioner retractor

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.**
- **Do not place objects with sharp edges on the seat. Also, do not place heavy objects on the seat that will leave permanent impressions in the seat. Such objects can damage the seat or occupant classification sensor (pattern sensor) (if equipped). This can affect the operation of the air bag system and result in serious personal injury.**
- **Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor (if equipped). This can also affect the operation of the air bag system and result in serious personal injury.**
- **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.**
- **Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that is not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor (if equipped).**
- **No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.**
- **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 (for Mexico)

This vehicle is equipped with the Supplemental front-impact air bag system for the driver and front passenger seats. **All of the information, cautions and warnings in this manual apply and must be followed.**

The driver supplemental front-impact air bag is located in the center of the steering wheel. The front passenger supplemental front-impact air bag is mounted in the instrument panel above the glove box. The front air bags are designed to inflate in higher severity frontal collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity frontal impact. They may not inflate in certain frontal collisions. Vehicle damage (or lack of it) is not always an indication of proper front air bag operation.

The system monitors information from the crash zone sensor, the Air bag Control Unit (ACU), seat belt buckle switches and the occupant classification sensor (pattern sensor). Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, the occupant classification sensor is also monitored. Based on information from the sensors, only one front air bag may inflate in a crash. Additionally, the front

passenger air bag may be automatically turned OFF under some conditions, depending on the information provided by the occupant classification sensor. If the front passenger air bag is OFF, the <PASSENGER AIR BAG OFF> indicator light will be illuminated. (See "Front passenger air bag status light" (P.1-33) for further details.) One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, it is recommended you visit a NISSAN dealer to obtain information about the system. If you are considering modification of your vehicle due to a disability, you may also contact a NISSAN dealer. Contact information is contained in the front of this Owner's Manual.

When a front air bag inflates, a fairly loud noise may be heard, followed by 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.

Front air bags, along with the use of seat belts, help to cushion the impact force on the head and chest of the front occupants. They can help save lives and reduce serious injuries. However, an inflating front air bag may cause facial abrasions or other injuries. Front air bags do not provide restraint to the lower body.

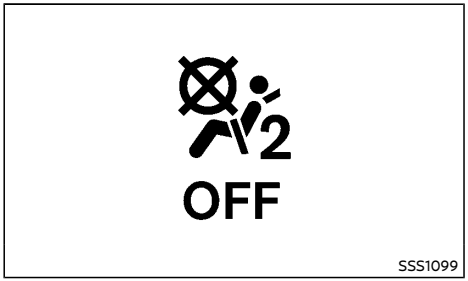
Even with Supplemental front-impact air bags, seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The front air bags inflate quickly in order to help protect the front occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the air bag module during inflation.

The front air bags deflate quickly after a collision.

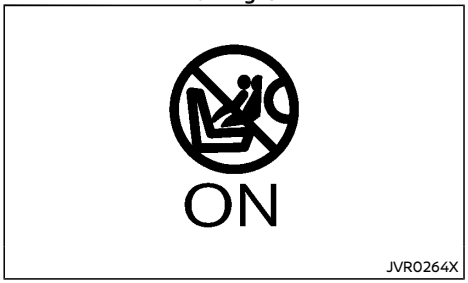
The supplemental front air bags operate only when the ignition switch is in the ON position.

After pushing the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the system is operational.

Front passenger air bag status light:



OFF light



ON light

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.

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 above the inside mirror.

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> OFF illuminated	INHIBITED
Child, Child Restraint, Small Adult or Baggage	Bag or Child Restraint in front passenger seat*	<OFF> OFF illuminated	INHIBITED
Adult	Adult in the front passenger seat	<ON> ON will illuminate and then turn off after 1 minute	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.

Front passenger air bag:

The front passenger air bag is designed to automatically turn OFF when the vehicle is operated under some conditions as described below. If the front passenger air bag is OFF, it will not inflate in a crash. The driver air bag and other air bags in your vehicle are not part of this system.

The purpose of the regulation is to help reduce the risk of injury or death from an inflating air bag to certain front passenger seat occupants, such as children, by requiring the air bag to be automatically turned OFF.

The occupant classification sensor (pattern sensor) is in the front passenger seat cushion and is designed to detect an occupant and objects on the seat. For example, if a child is in the front passenger seat, the Supplemental front-impact air bag system is designed to turn the front passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, the occupant classification sensor can detect it 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 not cause the front passenger air bag to be automatically turned OFF. For small adults it may be turned OFF, however, if the occupant does not sit in the seat properly (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.

The occupant classification sensor is designed to operate as described above to turn the front passenger air bag OFF for specified child restraints. Failing to properly secure child restrains may allow the restraint to tip or move in an accident or sudden stop. This can also result in the front passenger air bag inflating in a crash instead of being OFF. (See “Child restraints” (P.1-11) for proper use and installation.)

If the front passenger seat is not occupied, the front passenger air bag is designed not to inflate in a crash. However, heavy objects placed on the seat could result in air bag inflation, because of the object being 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, 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 with the seat occupied. The <PASSENGER AIR BAG OFF> OFF indicator light will illuminate when the front passenger seat is unoccupied.

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

If a child restraint must be used in the front seat, the <PASSENGER AIR BAG ON> ON 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 ON> ON indicator light is 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 ON> ON indicator light is still illuminated, try a different child restraint.

If the <PASSENGER AIR BAG ON> ON indicator

light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your NISSAN dealer can check that the system is OFF by using a special tool. However, until you have confirmed with your dealer that your air bag is working properly, do not transport a child in this vehicle.

The Supplemental front-impact air bag system and front passenger air bag status light will take a few seconds to register a change in the front passenger seat status. However, if the seat becomes unoccupied, the <PASSENGER AIR BAG OFF> indicator light will remain ON.

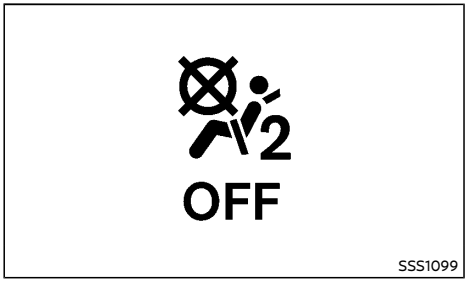
If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light , located in the meter and gauges area will blink. Have the system checked. It is recommended you visit a NISSAN dealer for this service.

Supplemental front-impact air bag system (except for Mexico)

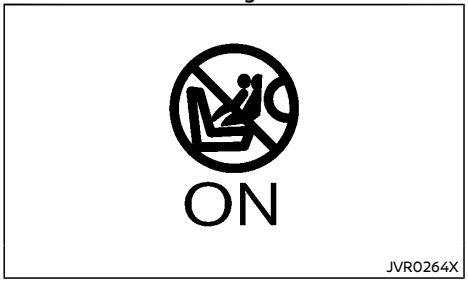
The driver's supplemental front-impact air bag is located at the center of the steering wheel. The passenger's supplemental front-impact air bag is located at the instrument panel.

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

The front passenger air bag status light is located above the inside rearview mirror.

When the ignition switch is placed in the "ON" position, the front passenger air bag status ON and OFF lights illuminate and then turn off or remain on depending on the front passenger air bag status.

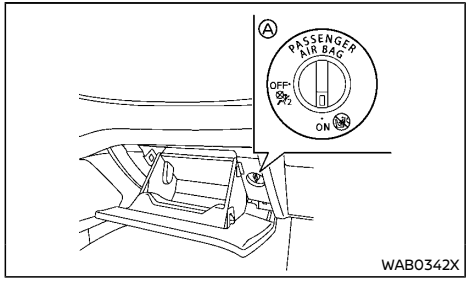
- When the ignition switch is placed in the "ON" position and the front passenger air bag is active, the front passenger air bag status OFF light ( ) will turn off after about 7 seconds.

  The front passenger air bag status ON light ( ) will illuminate and then turn off after 1 minute when the front passenger air bag switch is in the "ON" position.
- When the ignition switch is placed in the "ON" position and the front passenger air bag is inactive, the front passenger air bag status ON light ( ) will turn off after about 7 seconds.

  The front passenger air bag status OFF light ( ) will illuminate and remain on as long as the front passenger air bag switch is in the "OFF" position.

If the front passenger air bag status light operates in a way other than described above, the front passenger air bag may not function properly. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

Front passenger air bag switch (if equipped):



The front passenger air bag can be turned off with the front passenger air bag switch Ⓐ located in the glove box.

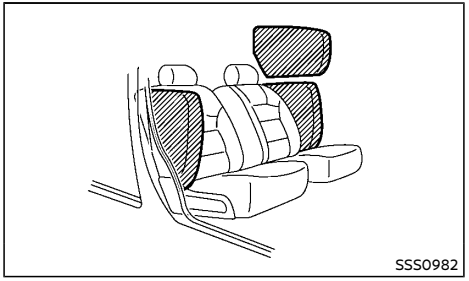
To turn off the front passenger air bag:

1. Place the ignition switch in the "OFF" position.
2. Open the glove box and turn the switch to the "OFF" position.
3. Place the ignition switch in the "ON" position. The front passenger air bag status OFF light ( ) will illuminate and remain on.

To turn on the front passenger air bag:

1. Place the ignition switch in the "OFF" position.
2. Open the glove box and turn the switch to the "ON" position.
3. Place the ignition switch in the "ON" position. The front passenger air bag status ON light ( ) will illuminate.
4. After 1 minute, the front passenger air bag status ON light ( ) will turn off.

Supplemental side-impact air bag system


SSS0982

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 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

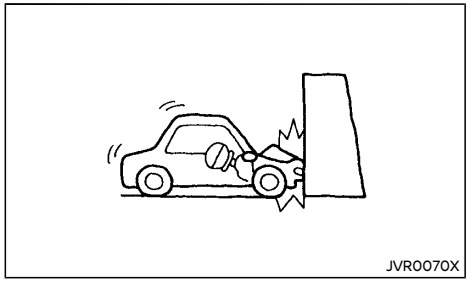
The SRS air bags activate in the event of a front or side impact in which the vehicle occupants may be severely injured even if they are wearing the seat belts properly.

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

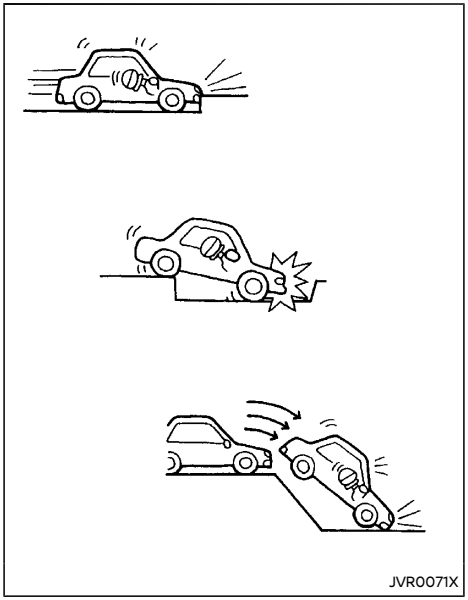
Supplemental front-impact air bags:

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


JVR0070X

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.

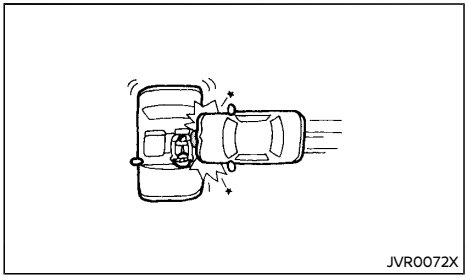
The supplemental front-impact air bag system may also deploy when the vehicle receives severe damage to the undercarriage.


JVR0071X

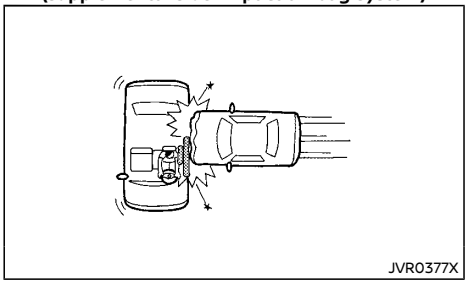
- Hitting a curb, pavement edge or hard surface at high speed
- Falling into a deep hole or ditch
- Landing hard on the ground after jumping

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.


JVR0072X

(supplemental side-impact air bag system)


JVR0377X

(supplemental curtain side-impact air bag system)

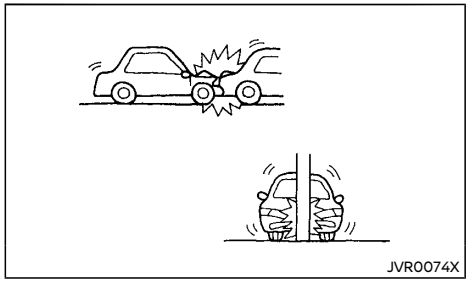
- The supplemental side-impact and curtain side-impact air bags will deploy in the event of a side impact with a normal passenger vehicle that exceeds at a speed of 25 km/h (16 MPH).

When the SRS air bag is unlikely to deploy

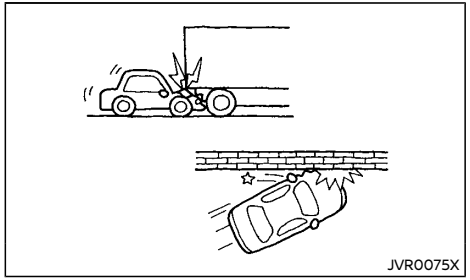
The SRS air bags may not deploy in cases where the impact is not forceful enough to inflate the SRS air bags.

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:

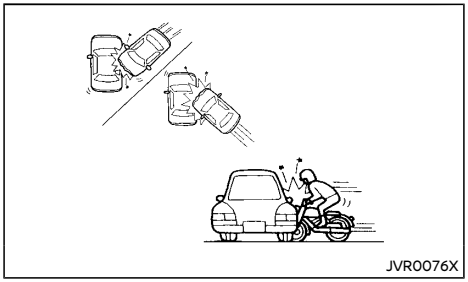

JVR0074X

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

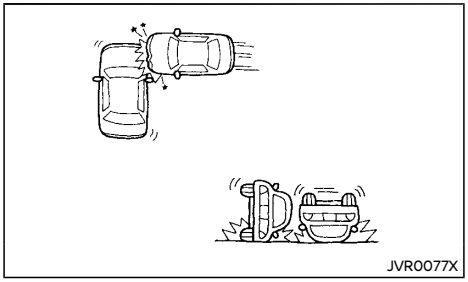

JVR0075X

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

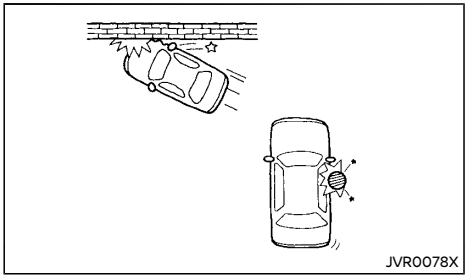
Supplemental side-impact and curtain side-impact air bags:


JVR0076X

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


JVR0077X

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


JVR0078X

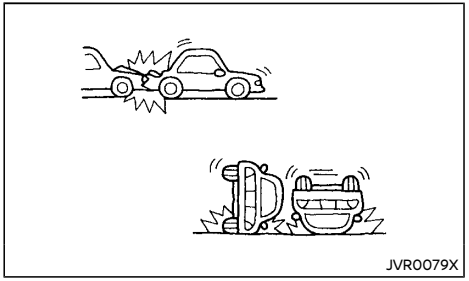
- A frontal offset impact to the guard rails
- A collision with a pole

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.

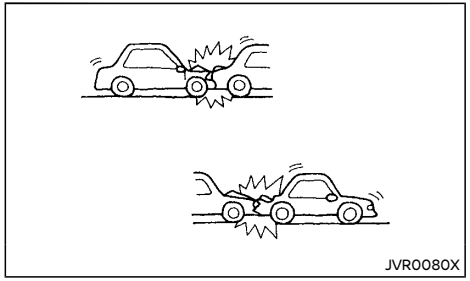
Other examples where the SRS air bag will not deploy are shown in the following illustrations.

Supplemental front-impact air bags:


JVR0079X

- A collision from the side or rear
- Vehicle rollover

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


JVR0080X

- 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 front seat occupants.

The pre-tensioner is encased with the front seat belt's retractor. 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 supplemental front-impact air bags, supplemental side-impact air bags or supplemental curtain side-impact 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.**

The supplemental front-impact air bags, supplemental side-impact air bags, supplemental curtain side-impact 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.

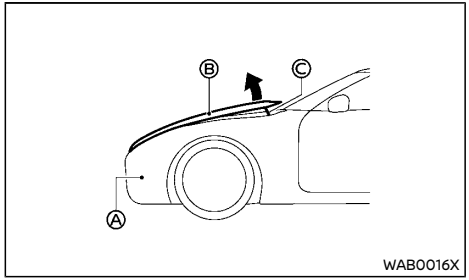
When maintenance work is required on the vehicle, information about the air bags, pre-tensioner seat belts and related parts should be pointed out to the person performing the maintenance. The ignition switch should always be in the "LOCK" position when working under the hood or inside the vehicle.

POP-UP ENGINE HOOD

In certain frontal collisions with a pedestrian, the pop-up engine hood system can help reduce impact to the head of a pedestrian. This system is designed to pop up the rear end of the hood in certain frontal collisions to provide specified clearance between the hood and the engine compartment to reduce impact to a pedestrian.

The pop-up engine hood activates in certain frontal collisions with pedestrians or objects when the vehicle is driven at speeds between approximately 20 and 60 km/h (12 and 37 MPH). While driving, the pop-up engine hood may activate in the event of an impact collision involving the bottom of the vehicle or bumper. The system activates when the collision impact reaches a certain level even though the collision does not cause damage to the bumper.

The pop-up engine hood system operates only when the ignition switch is in the "ON" position. When the ignition switch is in the "ON" position, the pop-up engine hood warning light illuminates for about 7 seconds and then turns off. This indicates that the pop-up engine hood system is operational. (See "Warning lights, indicator lights and audible reminders" (P.2-12).)



When the sensors Ⓐ (located behind the front bumper) detect an impact above a certain level in frontal collisions, the pop-up engine hood system will operate and the rear end of the hood Ⓑ is lifted by the lifters Ⓒ instantly.

WARNING:

- **The pop-up engine hood will not activate in the event of a side impact, rear impact or rollover collision.**
- **The pop-up engine hood may not activate in the event of a corner impact collision of the front bumper.**
- **No unauthorized changes should be made to any components, including the hood and the front bumper, or the wiring of the pop-up engine hood system. This is to prevent accidental or improper activation, or damage to the pop-up engine hood system.**
- **Work around or on the pop-up engine hood system should be done by a NISSAN dealer. The wiring of the pop-up engine hood system should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the pop-up engine hood system. This could affect proper operation of the pop-up engine hood system and cause accidental or improper activation.**
- **Do not pull the hood lock release handle or push the hood down after the pop-up engine hood activates. Doing so could cause injury or damage to the hood because the hood cannot be closed manually after the system is activated. When the pop-up engine hood activates, contact a NISSAN dealer.**
- **If you need to dispose of the pop-up engine hood system or scrap the vehicle, contact a NISSAN dealer. Correct pop-up engine hood system disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**
- **The pop-up engine hood system cannot be reused after activation. Contact a NISSAN dealer for replacement. If the vehicle becomes involved in a frontal collision but the pop-up engine hood is not activated, be sure to have the pop-up engine hood system checked and replaced by a NISSAN dealer if necessary.**
- **Immediately after the pop-up engine hood has been activated, do not touch the components because the lifters will be hot. You may severely burn yourself.**

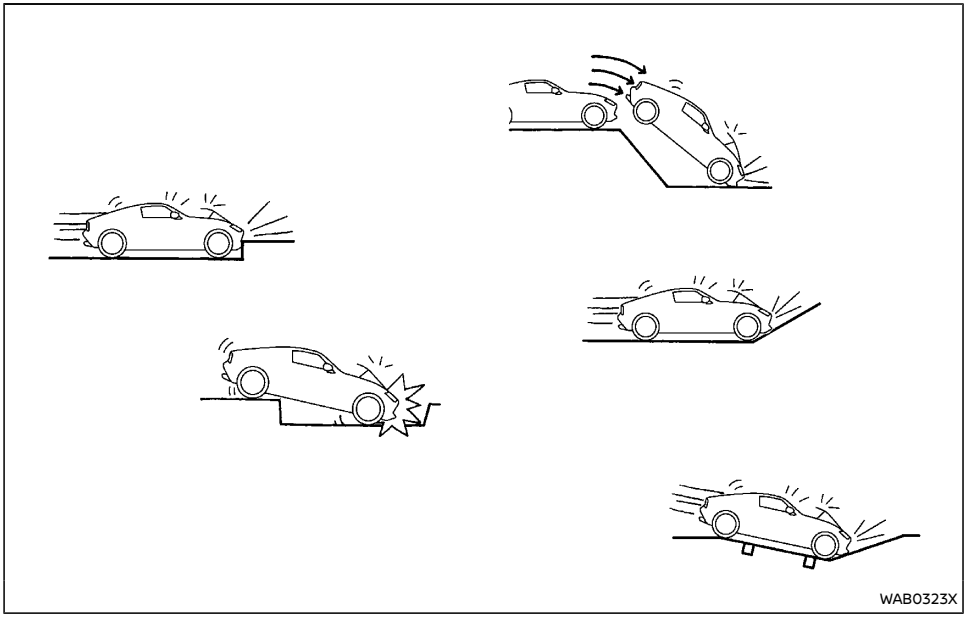
POP-UP ENGINE HOOD ACTIVATION CONDITIONS

When the pop-up engine hood will activate

The pop-up engine hood activates in certain frontal collisions with pedestrians or objects when the vehicle is driven at speeds between approximately 20 and 60 km/h (12 and 37 MPH).

The pop-up engine hood activates when the collision impact reaches a certain level even though the collision does not cause damage to the front bumper. In addition, it may activate when the vehicle collides with small animals, lumps of snow or any other objects, depending on the condition and speed of collisions.

When the vehicle receives an impact to the undercarriage or a lower part of the front bumper, the pop-up engine hood may also activate. Reduce speed and be careful when driving on a road surface that seems likely to impact the undercarriage or a lower part of the front bumper. Some examples are shown in the following illustrations.

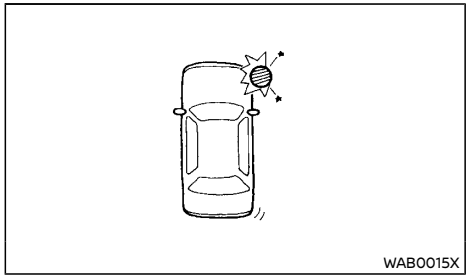


WAB0323X

- Hitting a curb, pavement edge or hard surface
- Falling into a deep hole or ditch
- Landing hard on the ground after jumping
- Hitting the front bumper on a slope
- Hitting the front bumper on an uneven road surface, such as a railroad crossing

When the pop-up engine hood is unlikely to activate

The pop-up engine hood may not activate in cases when the sensors of the system are less likely to detect an impact, as in the following examples.



WAB0015X

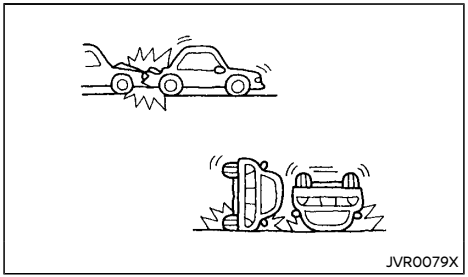
- If a pedestrian hits the corner or side of the front bumper while the vehicle is moving
- When the vehicle speed cannot be detected accurately due to a sideslip

When the pop-up engine hood will not activate

Once the pop-up engine hood has activated, it will not activate again even if your vehicle has a collision.

The pop-up engine hood will not activate when the front bumper is impacted while the vehicle is driven beyond the speed range that the system can activate.

Other examples when the pop-up engine hood will not activate are shown in the following illustrations.


JVR0079X

- A collision from the side or rear
- Vehicle rollover

EMERGENCY SERVICES CALL ECALL/SOS SYSTEM (if equipped for Middle East)

Your vehicle is equipped with the 999-based 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 999-based 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.

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 EMERGENCY CALL

If the air bag control unit detects a frontal collision, side collision or rear collision 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 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)
- Vehicle propulsion storage type (gasoline/diesel/CNG/LPG/electric/hydrogen)

The 999-based 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 999-based 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.

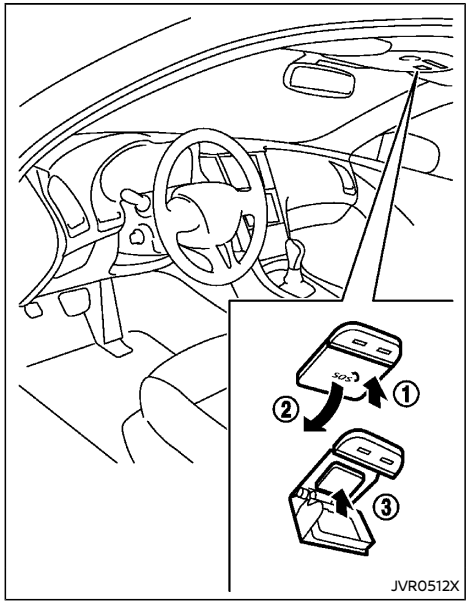
CAUTION:

- **The automatic emergency call will only be triggered if the vehicle air bag system is activated during the collision.**
- **If the automatic emergency call has been triggered, bring your vehicle to a NISSAN dealer. This is necessary because the automatic 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 nongenuine 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.**

MAKING AN EMERGENCY CALL MANUALLY



The manual emergency call can be performed with the ignition switch placed in the "ON" position, by pushing the SOS call button ③ located on the overhead control panel.

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 call button.**
- **Use this service only in case of an emergency. There may be a penalty for inappropriate use of the service.**

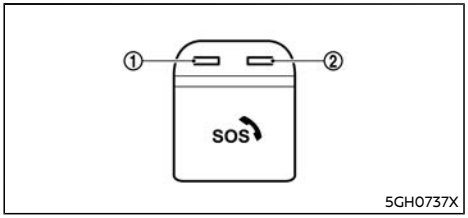
1. Place the ignition switch in the "ON" position.
2. Push ① and open the cover ②.
3. Push the SOS call button ③. An emergency call is sent to the emergency call center. At the same time, the vehicle information is also transferred.
4. When the call is connected, speak to the emergency support staff.

If you want to cancel the emergency call, push and hold the SOS call 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 call 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.**

INDICATOR LIGHTS



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 (if equipped) 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 (if equipped) is illuminated for up to 3 seconds.
- At any other time if the red indicator light (if equipped) is illuminated contact a NISSAN dealer for assistance. In the event of a critical system failure that would disable the 999-based eCall in-vehicle system, the red indicator light is illuminated as a warning.

NOTE:

If the indicator light is illuminated red (if equipped) or no 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.

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

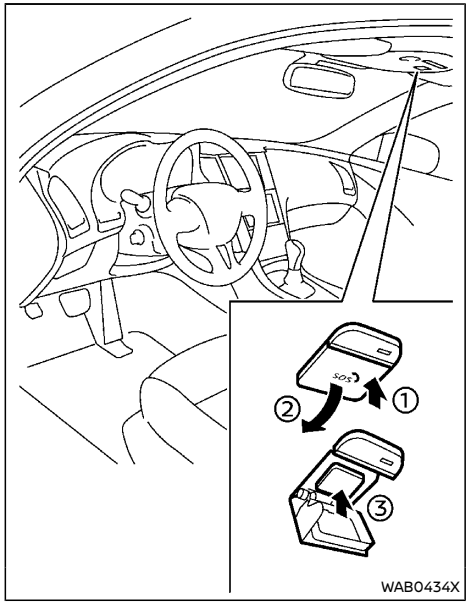
NissanConnect customer support line:

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.**
  - **— Automatic Collision Notification triggers a connection from the car to the NissanConnect Services Emergency Response Center when the vehicle has been involved in a collision event and/or if the airbags have deployed.**
- **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.**
- **If the automatic emergency call has been triggered, please bring your vehicle to a NISSAN dealer or qualified workshop. This is necessary because the automatic emergency call system needs to be reset to avoid any unintended eCall being made.**

MAKING AN EMERGENCY CALL



The Emergency Call (SOS) button is located near the map light.

1. Push ① and open the cover ②.
2. Push the Emergency Call (SOS) button ③ 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.**

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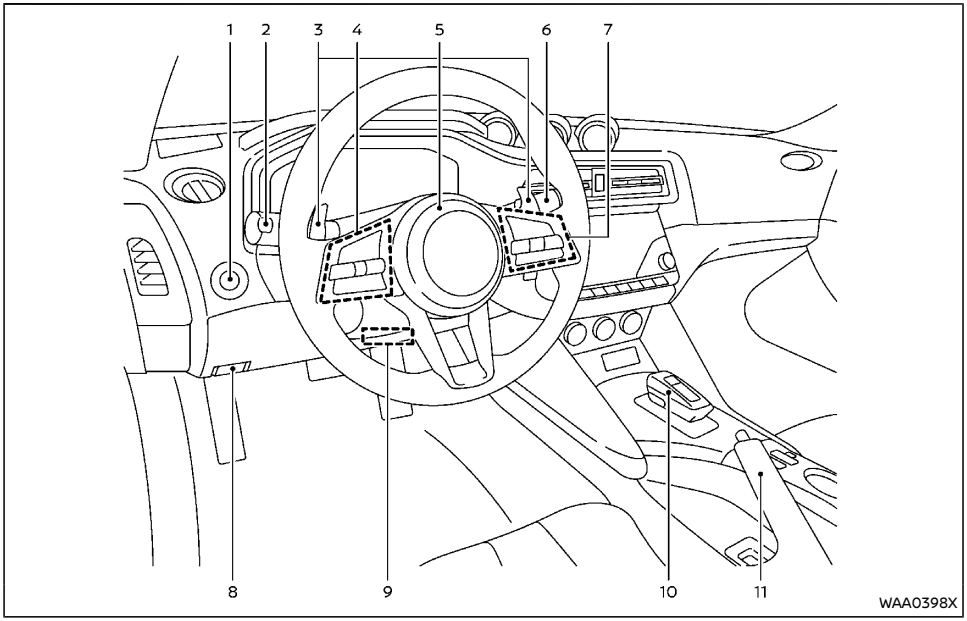
COCKPIT

LEFT-HAND DRIVE (LHD) MODEL

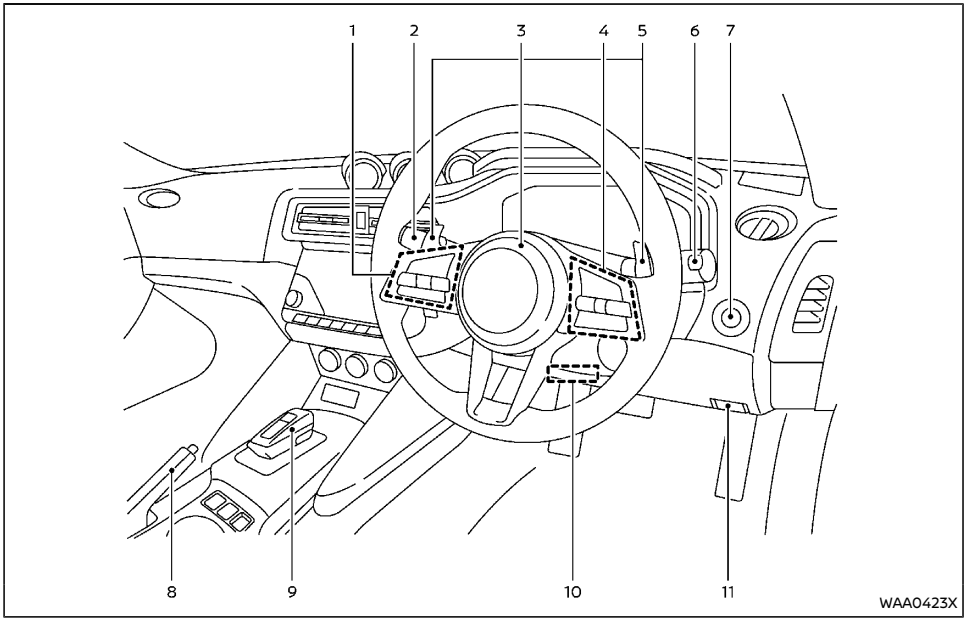


1. Vehicle Dynamic Control (VDC) OFF switch
2. Headlight, fog light and turn signal switch
   — Headlight
   — Fog light*
   — Turn signal switch
3. Paddle shifter (Automatic Transmission models)
4. Steering-wheel-mounted controls (left side)
   — Audio control steering switch**
   — Vehicle information display control
5. Steering wheel
   — Electric power steering
   — Horn
6. Windshield wiper and washer switch
7. Steering-wheel-mounted controls (right side)
   — Cruise control switches*
   — Intelligent Cruise Control (ICC) system switches*
   — Bluetooth® Hands-Free Phone system control switch**
   — Voice recognition system switch**
8. Hood release handle
9. Tilt and telescopic steering lock lever
10. Shift lever
    — Automatic Transmission (AT)
    — Manual Transmission (MT)
11. Parking brake

*: if equipped

**: Refer to the separate NissanConnect Owner's Manual.

RIGHT-HAND DRIVE (RHD) MODEL



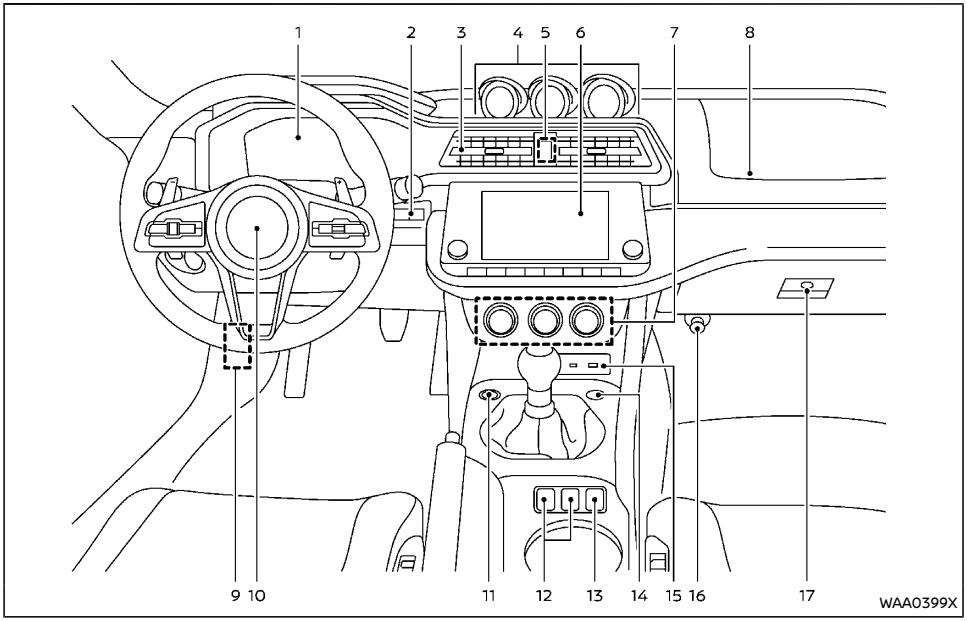
1. Steering-wheel-mounted controls (left side)
   — Audio control steering switch**
   — Vehicle information display control
2. Windshield wiper and washer switch
3. Steering wheel
   — Electric power steering
   — Horn
4. Steering-wheel-mounted controls (right side)
   — Cruise control switches*
   — Intelligent Cruise Control (ICC) system switches*
   — Bluetooth® Hands-Free Phone system control switch**
   — Voice recognition system switch**
5. Paddle shifter (Automatic Transmission models)
6. Headlight, fog light and turn signal switch
   — Headlight
   — Fog light*
   — Turn signal switch
7. Vehicle Dynamic Control (VDC) OFF switch
8. Parking brake
9. Shift lever
   — Automatic Transmission (AT)
   — Manual Transmission (MT)
10. Tilt and telescopic steering lock lever
11. Hood release handle

*: if equipped

**: Refer to the separate NissanConnect Owner's Manual.

INSTRUMENT PANEL

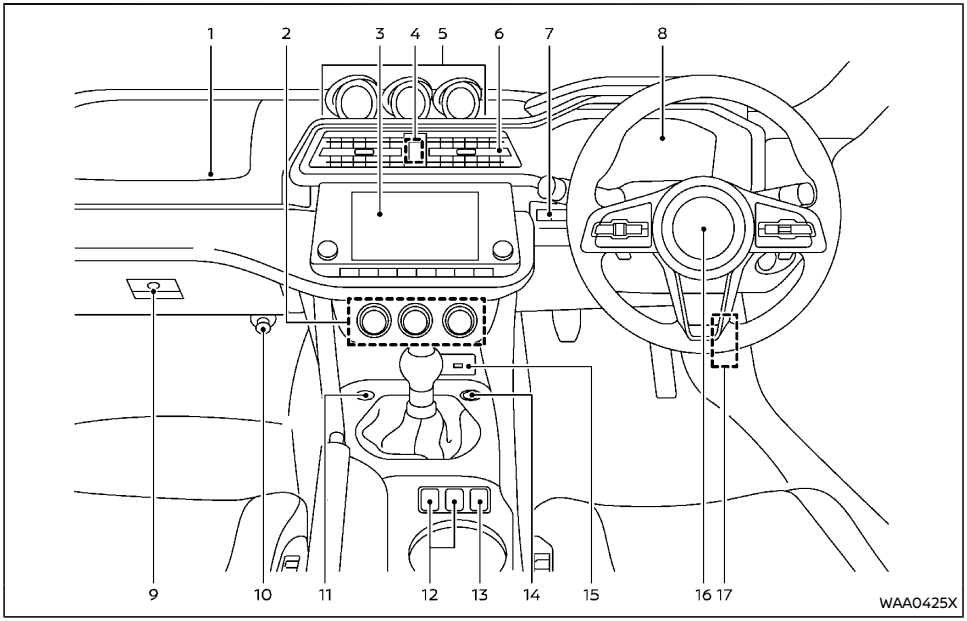
LEFT-HAND DRIVE (LHD) MODEL



1. Meters and gauges
   — Clock
2. Instrument brightness control and TRIP/RESET switch for twin trip odometer
3. Ventilator
4. Triple meter
5. Hazard indicator flasher switch
6. Audio system*
   — RearView Monitor
   — Bluetooth® Hands-Free Phone System*
7. Heater and air conditioner
   — Rear window defogger switch
8. Front passenger supplemental air bag
9. Fuse box cover
10. Driver supplemental air bag
11. Push-button ignition switch
12. Heated seat switch*
13. Rear hatch release switch
14. SynchroRev Match mode (S-MODE) switch (Manual Transmission models) or Drive Mode Selector (Automatic Transmission models)
15. USB (Universal Serial Bus) connection ports*
16. Power outlet
17. Glove box

*: Refer to the separate NissanConnect Owner's Manual.

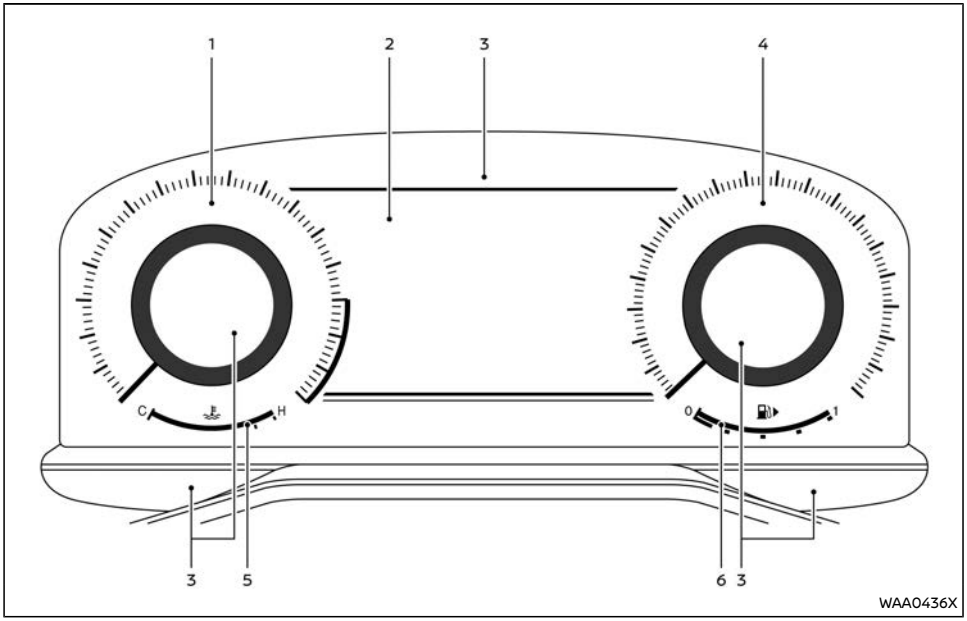
RIGHT-HAND DRIVE (RHD) MODEL

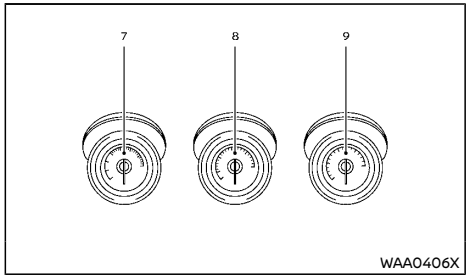


1. Front passenger supplemental air bag
2. Heater and air conditioner
   — Rear window defogger switch
3. Audio system*
   — RearView Monitor
   — Bluetooth® Hands-Free Phone System*
4. Hazard indicator flasher switch
5. Triple meter
6. Ventilator
7. Instrument brightness control and TRIP/RESET switch for twin trip odometer
8. Meters and gauges
   — Clock
9. Glove box
10. Power outlet
11. SynchroRev Match mode (S-MODE) switch (Manual Transmission models) or Drive Mode Selector (Automatic Transmission models)
12. Heated seat switch*
13. Rear hatch release switch
14. Push-button ignition switch
15. USB (Universal Serial Bus) connection ports*
16. Driver supplemental air bag
17. Fuse box cover

*: Refer to the separate NissanConnect Owner's Manual.

METERS AND GAUGES

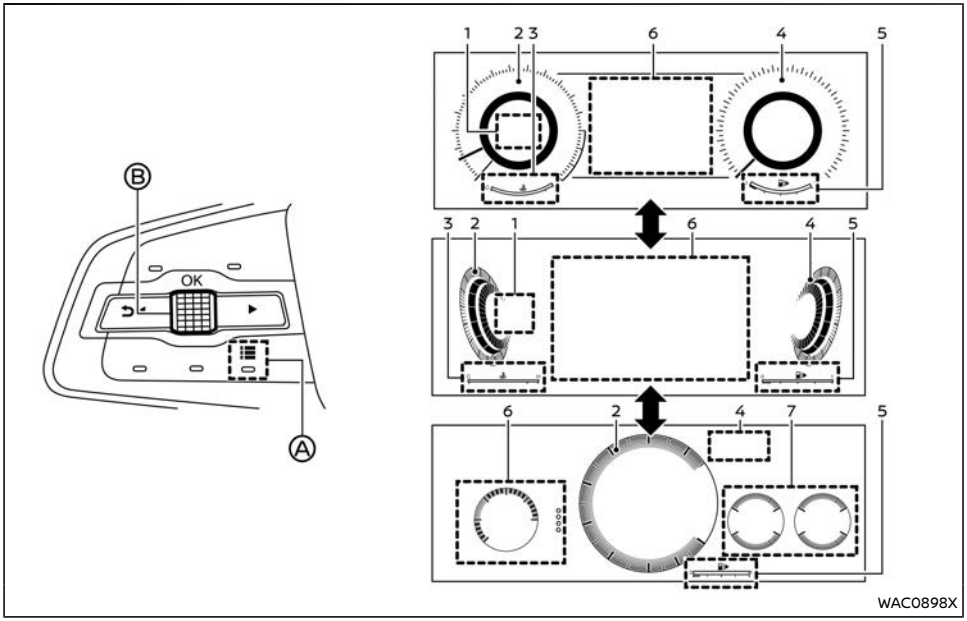




Triple meter (LHD model)

1. Tachometer
2. Vehicle information display
   — Odometer/twin trip odometer
3. Warning and indicator lights
4. Speedometer
5. Engine coolant temperature gauge
6. Fuel gauge
7. Boostmeter
8. Turbo Speedometer
9. Voltmeter

CHANGING THE METER SCREEN VIEW



1. Personal Display
2. Tachometer
3. Engine coolant temperature gauge
4. Speedometer
5. Fuel gauge
6. Vehicle information display
7. 4 Gauges

The meter screen view can be changed to expand the vehicle information display area. The display of normal mode, enhanced mode and sports mode is shown in the order from top of the illustration.

To change the meter screen view:

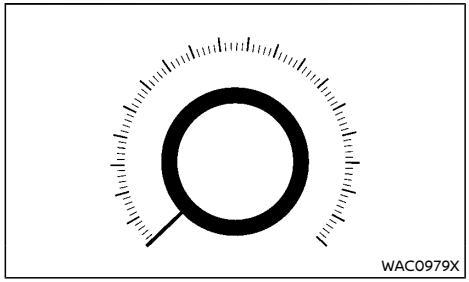
1. Push the shortcut menu button Ⓐ on the left side of the steering wheel.

   "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.

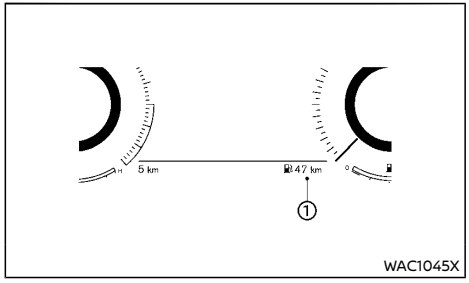
SPEEDOMETER AND ODOMETER

Speedometer



The speedometer indicates the vehicle speed.

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.

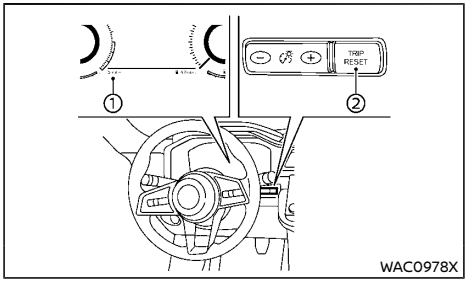
The display is updated every 30 seconds.

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/Twin trip odometer



The odometer/twin trip odometer ① is displayed on the vehicle information display when the ignition switch is in the ON position.

The odometer displays the total distance the vehicle has been driven.

The twin trip odometer displays the distance of individual trips.

Changing display:

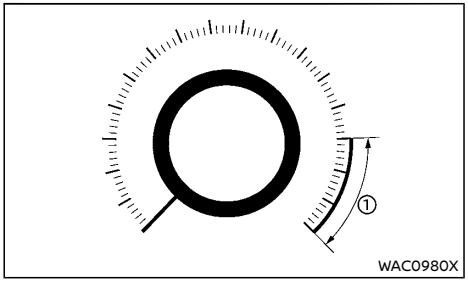
Push the trip reset switch ② to change the display as follows:

ODO → TRIP A → TRIP B → ODO

Resetting trip odometer:

Pushing the trip reset switch ② for more than 1 second resets the currently displayed trip odometer to zero.

TACHOMETER

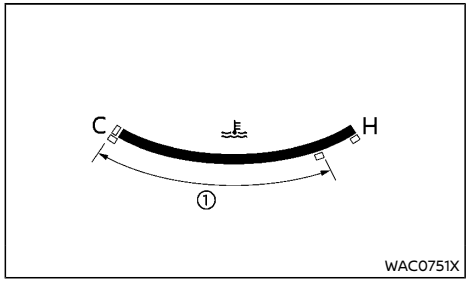


The tachometer indicates the engine speed in revolutions per minute (rpm). **Do not rev the engine into the red zone ①.**

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



The engine coolant temperature gauge indicates the engine coolant temperature.

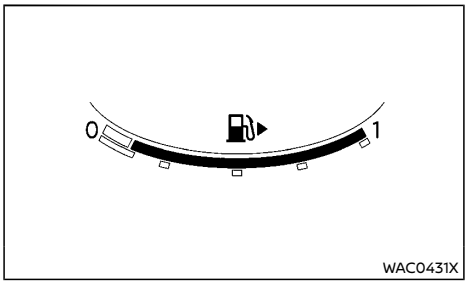
The engine coolant temperature is normal when the gauge points within the zone ① shown in the illustration.

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.6-13) for immediate action required.)**

FUEL GAUGE



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 the empty (0) position.

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

CAUTION:

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

There is a small reserve of fuel in the tank when the fuel gauge reads the empty (0) position.

SPORTS MODE DISPLAY

vehicle information display

The vehicle information display can be changed using the dial and buttons located on the steering wheel. (See "How to use the vehicle information display" (P.2-19).)

The following items are also displayed if the vehicle is equipped with them:

Tyre Pressure:

The tire pressure mode shows the pressure of all four tires while the vehicle is driven. When the "Low Tyre Pressure" warning appears, the display can be switched to the tire pressure mode by pushing the scroll dial to reveal additional details on the displayed warning.

Boost gauge:

The boost gauge indicates boost pressure of the engine.

G-Force:

This mode shows the maximum value of the detected G.

G-Force can be reset. Push the scroll dial according to the reset instructions displayed at the bottom of the screen.

Settings:

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

- Upshift Indicator
  Allows user to customize the upshift indicator options. Use the scroll dial to change the mode.
  — Customisation
  You can set the engine speed to illuminate upshift indicator red in the range between 5,200 and 8,500 rpm. The set engine speed can be changed by 100 rpm.
  — Auto
  When selected, the upshift indicator will turn on at an optimal timing automatically.
  — Off
  When selected, upshift indicator is not displayed.
  (See "Upshift indicator" (P.5-18).)
- 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 to select and change a menu item. (See "Driver Assistance" (P.2-19).)
- Tyre Pressures
  The submenu appears. (See "Tyre Pressures" (P.2-20).)
- Vehicle Settings
  The vehicle settings allows user to change settings for the menus. (See "Vehicle Settings" (P.2-21).)
- Maintenance
  The maintenance mode allows user to check the distance to oil change or set alerts for the reminding of maintenance intervals. (See "Maintenance" (P.2-22).)
- Unit/Language
  The units that are shown in the vehicle information display can be changed:
  — Distance/Fuel
  — Tyre Pressures
  — Temperature
  — Language
  (See "Unit/Language" (P.2-23).)

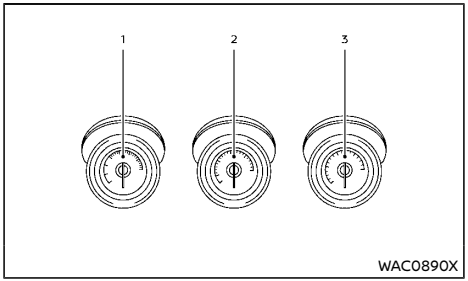
- Factory Reset
  The settings in the vehicle information display can be reset back to the factory default. (See "Factory Reset" (P.2-24).)

4 gauges

The 4 gauges may display the following items if the vehicle is equipped with them:

- Engine oil temperature gauge
- Engine oil pressure gauge
- Engine coolant temperature gauge
- Transmission oil pressure gauge
- Differential gear oil temperature gauge
- Accelerator opening gauge

TRIPLE METER



Triple meter (LHD model)

1. Boostmeter
2. Turbo Speedometer
3. Voltmeter

Boostmeter

When the ignition switch is placed in the ON position, the boostmeter indicates boost pressure of the engine.

Turbo Speedometer

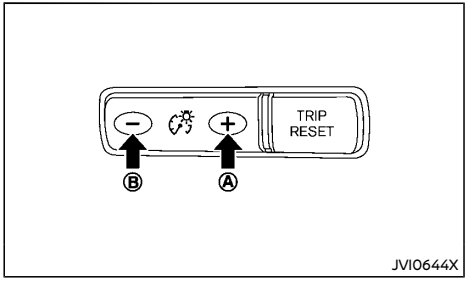
When the ignition switch is placed in the ON position, the turbo speedometer indicates revolutions of the turbocharger.

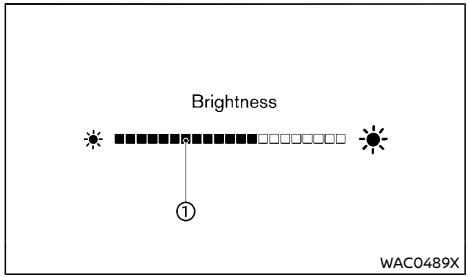
Voltmeter

When the ignition switch is pushed to the "ON" position, the volt meter indicates the battery voltage. When the engine is running, it indicates the generator voltage.

While cranking the engine, the volts drop below the normal range. If the needle is not in the normal range (11 to 15 volts) while the engine is running, it may indicate that the charging system is not functioning properly. Have the system checked by a NISSAN dealer.

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.

TRANSMISSION POSITION INDICATOR

The Transmission position indicator indicates the transmission position when the ignition switch is in the "ON" position. (See "20. Automatic Transmission (AT) position indicator (Automatic Transmission models)" (P.2-28) and "Driving vehicle" (P.5-11).)

WARNING LIGHTS, INDICATOR LIGHTS AND AUDIBLE REMINDERS

	Anti-lock Braking System (ABS) warning light		Pop-up engine hood warning light		Security indicator light
	Brake warning light		Seat belt warning light		Small light indicator light
	Charge warning light		Speed [120 km/h (75 MPH)] warning light*		SynchroRev Match mode (S-MODE) indicator*
	Electric power steering warning light		Supplemental Restraint System (SRS) air bag warning light		Turn signal/hazard indicator lights
	Electric shift control system warning light		Vehicle Dynamic Control (VDC) warning light		Vehicle Dynamic Control (VDC) off indicator light
	Engine oil pressure warning light		High beam assist indicator light*		
	Intelligent Emergency Braking with Pedestrian Detection system OFF warning light*		High beam indicator light		
	Low tire pressure warning light		Malfunction Indicator Light (MIL or MI)		
	Master warning light		Rear fog light 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 illuminate:

The following lights (if equipped) will illuminate briefly and then turn 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.

Some indicators and warnings are also displayed on the vehicle information display. (See "Vehicle information display (except sports mode display)" (P.2-18).)

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.

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.5-75).)

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 the parking brake system operation, low brake fluid level of the brake system and Anti-lock Braking System (ABS) malfunction.

Parking brake warning indicator:

When the ignition switch is pushed to the "ON" position with the parking brake applied, the brake warning light illuminates. When the parking brake is released, the brake warning light turns off.

If the parking brake is not fully released, the brake warning light remains on. Be sure that the brake warning light has turned off before driving. (See "Parking brake" (P.3-20).)

Low brake fluid warning indicator:

If the brake warning light illuminates while the engine is running, or while driving, and the parking brake is released, it may indicate that 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.8-12).)

If the brake fluid level is sufficient, have the brake system checked by a NISSAN dealer promptly.

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 that 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.2-13).)

Charge warning light

When the ignition switch is in the "ON" position, the charge warning light illuminates. After starting the engine, the charge warning light turns off. This indicates that the charging system is operational.

If the charge warning light illuminates while the engine is running, or while driving, it may indicate that 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 belt. If the alternator belt is loose, broken or missing, the charging system needs repair. (See "Drive belts" (P.8-10).)

If the alternator 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 belt is loose, broken or missing.

Electric power steering warning light

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, there will be no power assist for the steering. You will still have control of the vehicle, but the steering will be harder to operate. Have the power steering system checked. It is recommended that you visit a NISSAN dealer for this service.**

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.5-74).)

Electric shift control system warning light

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

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.8-8).)**

Intelligent Emergency Braking with Pedestrian Detection system OFF warning light

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.5-55) or "Intelligent Forward Collision Warning" (P.5-63).

Low tire pressure warning light

When the ignition switch is in the "ON" position, the low tire pressure warning light illuminates and then turns off. This indicates that the low tire pressure warning system is operational.

This light illuminates if there is low tire pressure or a tire pressure warning system malfunction.

The Tire Pressure Monitoring System (TPMS) monitors the tire pressure of all tires except the spare tire (if equipped).

Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. A "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. Use a tire pressure gauge to check the tire pressure.

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.

Model with TPMS reset function:

TPMS resetting must be also performed after a tire or a wheel is replaced.

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 "Tire Pressure Monitoring System (TPMS)" (P.5-5) and "Tire Pressure Monitoring System (TPMS)" (P.6-2).

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 pushed to 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.5-5).

WARNING:

- **If the light does not illuminate with the ignition switch pushed to the "ON" position, have the vehicle checked by a NISSAN dealer as soon as possible.**
- **If the light illuminates or LOW PRESSURE information is displayed on the monitor screen 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 with the 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.**
- **After adjusting the tire pressure, be sure to reset the TPMS (model with TPMS reset function). Unless the resetting is performed, the TPMS will not warn of the low tire pressure.**
- **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.**
- **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 all 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 (except sports mode display)" (P.2-18).

Pop-up engine hood warning light

When the ignition switch is in the "ON" position, the pop-up engine hood warning light illuminates for about 7 seconds and then turns off. This indicates that the pop-up engine hood system is operational.

If any of the following conditions occur, the pop-up engine hood system need servicing. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

- The pop-up engine hood warning light remains illuminated after about 7 seconds.
- The pop-up engine hood warning light flashes intermittently.
- The pop-up engine hood warning light does not come on at all.

Unless checked and repaired, the pop-up engine hood system may not function properly. (See "Pop-up engine hood" (P.1-39).)

Seat belt warning light

The seat belt warning light reminds 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 front seat belts are fastened.

When the vehicle speed exceeds 15 km/h (10 MPH), the light will blink unless the front seat belts are securely fastened.

For precautions on seat belt usage, see "Seat belts" (P.1-8).

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 that 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 flashes intermittently.
- The SRS air bag warning light does not come on at all.

Unless checked and repaired, the SRS air bag system and pre-tensioner seat belt may not function properly. (See "Supplemental Restraint System (SRS)" (P.1-27).)

Vehicle Dynamic Control (VDC) warning light

When the ignition switch is in the "ON" position, the Vehicle Dynamic Control (VDC) warning light illuminates and then turns off.

The warning light blinks when the VDC system is operating.

When the warning light blinks while driving, the driving condition is slippery and the vehicle's traction limit is about to be exceeded.

If the warning light illuminates when the ignition switch is placed in the "ON" position, it may indicate that the VDC system is not functioning properly and may need servicing. Have the system checked, and if necessary repaired, by a NISSAN dealer promptly.

If a malfunction occurs in the system, the VDC system function will be canceled but the vehicle is still driveable.

For details, see "Vehicle Dynamic Control (VDC) system" (P.5-21).

INDICATOR LIGHTS

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.2-35).)

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.2-37).)

Malfunction Indicator Light (MIL or MI)

CAUTION:

- **Continuing vehicle operation without proper servicing of the engine control system could lead to poor driveability, reduced fuel economy, and damage to the engine control system, which may affect the vehicle's warranty coverage.**
- **Incorrect setting of the engine 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.

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

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 engine 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 blinks while the engine is running, it may indicate a potential malfunction in the emission control system. In this case, the emission control 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 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.

For automatic transmission models, the malfunction Indicator Light may be lit by detecting low voltage. (See "Jump starting" (P.6-11).)

Rear fog light indicator light (if equipped)

The rear fog light indicator light illuminates when the rear fog light turns on. (See "Fog light switch" (P.2-39).)

Security indicator light

The security indicator light blinks when the ignition switch is in the "LOCK", "OFF" or "ACC" position. This function indicates the security system equipped on the vehicle is operational.

If the security system is malfunctioning, this light will remain on while the ignition switch is in the "ON" position. (See "Security system" (P.3-12) for additional information.)

Small light indicator light

The small light indicator light illuminates when the front clearance lights, instrument panel lights, rear combination lights and license plate lights are on. The indicator light turns off when the is turned off.

SynchroRev Match mode (S-MODE) indicator (if equipped)

This indicator will illuminate when the SynchroRev Match mode (S-MODE) is activated. (See "SynchroRev Match mode (S-MODE)" (P.5-17).)

Turn signal/hazard indicator lights

The turn signal/hazard indicator lights blink when the turn signal switch lever or hazard indicator flasher switch is on. (See "Headlight and turn signal switch" (P.2-35) or "Hazard indicator flasher switch" (P.6-2).)

Vehicle Dynamic Control (VDC) off indicator light

When the ignition switch is in the "ON" position, the Vehicle Dynamic Control (VDC) off indicator light illuminates and then turns off.

The light comes on when the VDC off switch is pushed and held to OFF the VDC system or to select the Traction mode (for NISMO models). This indicates that the VDC system and traction control system are not operating.

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 system checked, and if necessary repaired, by a NISSAN dealer promptly. (See "Brakes" (P.8-11).)

Door lock warning chime

The door lock warning chime will sound if any of the following operations are detected:

- The driver's door is opened while the ignition switch is in the "ACC" position.

Be sure that the ignition switch is switched to the "LOCK" position when the door is opened, and carry the Intelligent Key with you when leaving the vehicle.

For the Intelligent Key system, an inside or outside chime will sound under some conditions. When a chime sounds, be sure to check both the vehicle and the Intelligent Key. (See "Troubleshooting guide" (P.3-9).)

Light reminder chime

The light reminder chime will sound if the driver's side door is opened and the following operation is detected:

- The headlight switch is in either the ≡D◁≡ or ≡D position, and the ignition switch is in the "ACC", "OFF" or "LOCK" position.

Be sure to turn the headlight switch to the "OFF" (if equipped) or "AUTO" position and the rear fog light switch to the "OFF" position when you leave the vehicle.

Parking brake reminder chime

The parking brake reminder chime will sound if the vehicle is driven at more than 7 km/h (4 MPH) with the parking brake applied. Stop the vehicle and release the parking brake.

Seat belt warning chime

Type A:

The chime will sound for about 6 seconds unless the driver's seat belt is securely fastened.

Type B:

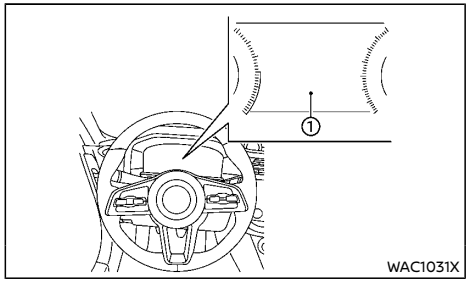
The chime will sound for about 6 seconds unless the driver's seat belt is securely fastened.

When the vehicle speed exceeds 15 km/h (10 MPH), the chime will sound unless the front seat belts are securely fastened. The chime will continue to sound for about 95 seconds until the front seat belts are fastened.

Type C:

When the vehicle speed exceeds 15 km/h (10 MPH), the chime will sound unless the front seat belts are securely fastened. The chime will continue to sound for about 95 seconds until the front seat belts are fastened.

VEHICLE INFORMATION DISPLAY (except sports mode display)



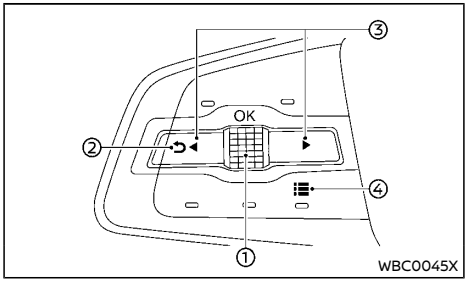
The vehicle information display ① is located as shown above, and it displays the warnings and information. The following items are also displayed if the vehicle is equipped with them:

- Vehicle settings
- Trip computer information
- Driver Assistance
- Cruise control system information
- Intelligent Cruise control (ICC) system information
- Intelligent Key operation information
- Audio information
- Indicators and warnings
- Tire pressure information
- Other information

CHANGING THE METER SCREEN VIEW

The meter screen view can be changed to expand the vehicle information display area. See "Changing the meter screen view" (P.2-8) for how to change the view.

HOW TO USE THE VEHICLE INFORMATION DISPLAY



The vehicle information display can be changed using the dial and buttons 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 category 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:

- Change Display View

  Allows user to change the meter screen view. (See "Changing the meter screen view" (P.2-8).)
- Audio Source

  Allows user to select the available audio source. (See the separate NissanConnect Owner's Manual for the audio system.)
- Driver Assistance

  Allows user to change the "Driver Assistance" settings. (See "Driver Assistance" (P.2-19).)
- Personal Display

  Allows user to change the "Personal Display" settings. (See "Personal Display" (P.2-20).)

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:

- Blank
- Drive Computer
- Fuel Economy
- Tyre Pressures
- Audio
- Driving Aids
- Speed Limit Sign (if equipped)
- 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.2-25).

To control what items appear in the vehicle information display, see "Settings" (P.2-19).

SETTINGS

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

- Driver Assistance
- Personal Display (if equipped)
- Tyre Pressures
- Clock
- Vehicle Settings
- Maintenance
- Display Settings
- Unit/Language
- Factory Reset

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:

- Lane (if equipped)
- Blind Spot (if equipped)
- Emergency Brake (if equipped)
- Speed Limit Sign (if equipped)
- Parking Aids (if equipped)
- Rear Cross Traffic Alert (if equipped)
- Driver Attention Alert (if equipped)

- Timer Alert
- Low Temp. Alert

Lane (if equipped):

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

(See "Lane Departure Warning (LDW)" (P.5-26).)

Blind Spot (if equipped):

- Warning
  Allows user to turn the Blind Spot Warning (BSW) system ON/OFF.
- Indicator Brightness
  — Bright/Standard/Dark

(See "Blind Spot Warning (BSW)" (P.5-29).)

Emergency Brake (if equipped):

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

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55) and "Intelligent Forward Collision Warning" (P.5-63).)

Speed Limit Sign (if equipped):

Allows user to turn the Traffic Sign Recognition (TSR) ON/OFF. (See "Traffic Sign Recognition (TSR)" (P.5-24).)

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:

- Sensor
  Allows user to customize the sonar sensors options. Use the scroll dial ① to change the mode.
  — ON
  — OFF
  — Front Only
- Distance
  Allows user to select the sensor's detection distance (Far, Medium or Near).
- Display
  Allows user to turn the parking sensor (sonar) system display ON/OFF.
- Volume
  Allows user to select the volume of the tone (High, Medium or Low).

(See "Parking sensor (sonar) system" (P.5-77).)

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.5-35).)

Driver Attention Alert (if equipped):

Allows user to turn the Intelligent Driver Alertness on or off. (See "Intelligent Driver Alertness" (P.5-69).)

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.

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
- Fuel Economy
  — Manual Reset1
  — Manual Reset2
  — Auto Refuel
- Trip
  — Manual Reset1
  — Manual Reset2
  — Auto Refuel
- Gear Position
- Average Speed
  — Manual Reset1
  — Manual Reset2
  — Auto Refuel

Tyre Pressures

The following submenu appears.

Target Front (if equipped):

The "Target Front" tire pressure is the pressure specified for the front tires on the tire placard. (See "Tire Pressure Monitoring System (TPMS)" (P.5-5) and "Tire placard" (P.9-9).)

Use the Scroll dial ① to select and change the value for the "Target Front"/"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. (See "Tire Pressure Monitoring System (TPMS)" (P.5-5) and "Tire placard" (P.9-9).)

Use the Scroll dial ① to select and change the value for the "Target Rear"/"Target rear" tire

pressure.

Tyre Pressure Unit:

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

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

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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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.5-5).)

Use the scroll dial ① to start or cancel the calibration process. While the calibration process is active, the message: "Resetting tyre pressure system" will be displayed.

Clock

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

- Display
- Clock Format
- Daylight Saving (if equipped)
- Set Clock Manually (if equipped)

The clock may also be set in the center display. For additional information, refer to the separate NissanConnect Owner's Manual.

Vehicle Settings

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

- Lighting
- Turn Indicator
- Locking
- Wipers (if equipped)

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

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
  When this item is turned to ON, the interior lights will illuminate if any door is unlocked. Use the scroll dial ① to turn this feature ON or OFF.
- Light Sensitivity (if equipped)
  The sensitivity of the 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
  The duration of the automatic headlights off timer can be changed from 0 to 180 seconds. Use the scroll dial ① to change the duration.

Turn Indicator:

The "3 flashes" overtaking feature can be changed from:

- 3 flashes
- Continuous

Use the scroll dial ① to toggle choices.

Locking:

The "Locking" menu has the following options:

- I-Key Door Lock (if equipped)
  When this item is turned on, the request switch on the door is activated. Use the scroll dial ① to activate or deactivate this function.
- Selective Unlock (if equipped)
  When this item is turned to ON, only the driver's door is unlocked first after the door unlock operation. When the door handle request switch on the driver's or passenger's side door is pushed to be unlocked, only the corresponding door is unlocked first. All the doors can be unlocked if the door unlock operation is performed again within 60 seconds. When this item is turned to OFF, all the doors will be unlocked after the door unlock operation is performed once. Use the scroll dial ① to activate or deactivate this function.
- 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.

Wipers (if equipped):

The "Wipers" menu has the following options:

- Speed Dependent
  The "Speed Dependent" feature can be activated or deactivated. Use the scroll dial ① to turn this feature ON or OFF.
- Drip Wipe
  The "Drip Wipe" feature can be set to be ON or OFF. Use the scroll dial ① to turn this feature ON or OFF.

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
- Air Filter
- Tyre
- Other

Service:

The Service informs the distance to oil change. Never exceed one year or 10,000 km (6,250 miles) between oil change intervals.

Display when ignition is "ON"	Display timing	Action Required
Engine Oil Service due in xxx km	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" and push the scroll dial ①.
4. Push the scroll dial ① according to the reset instructions displayed at the bottom of the "Service" maintenance screen.

When the user sets an alert for changing the engine oil in the "Air Filter" menu, reset both "Service" and "Air Filter" after changing the engine oil.

Air Filter:

This indicator appears when user set distance comes for changing the engine air 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.8-24).) 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, oil filter and tires. Other maintenance items can include such things as air filter or tire rotation. You can set or reset the distance for checking or replacing the items.

Display Settings

The display settings allows user to choose from the various meter selections.

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

Contents Selection:

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

Welcome Effect:

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

- Animation

Unit/Language

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

- Distance/Fuel
- Tyre Pressures
- Temperature
- Language

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

Distance/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

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

Tyre Pressures:

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

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

(See "3. Tire Pressures" (P.2-34).)

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. (except for Australia)

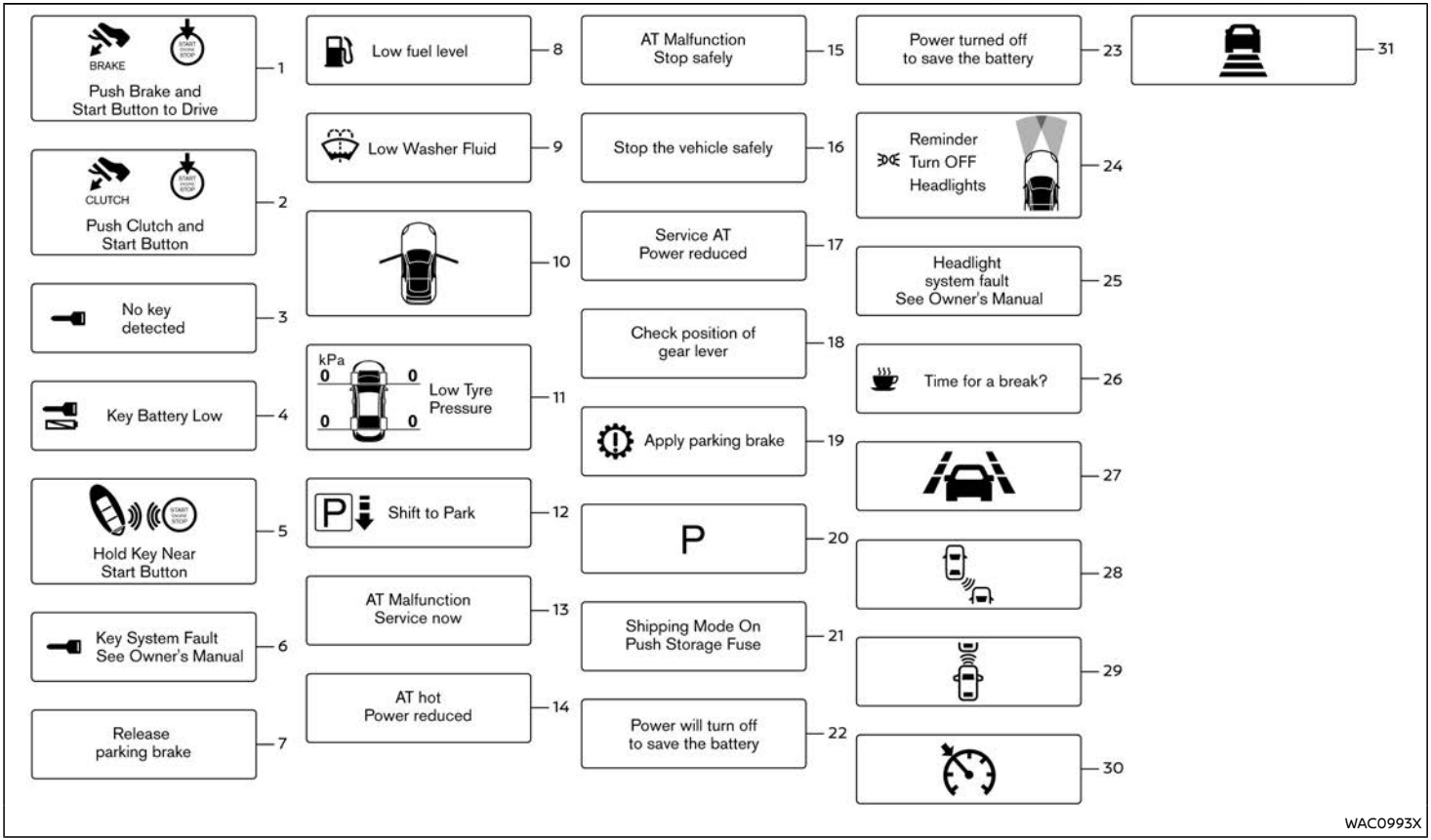
Use the scroll dial ① to select and change the language of the vehicle information display.

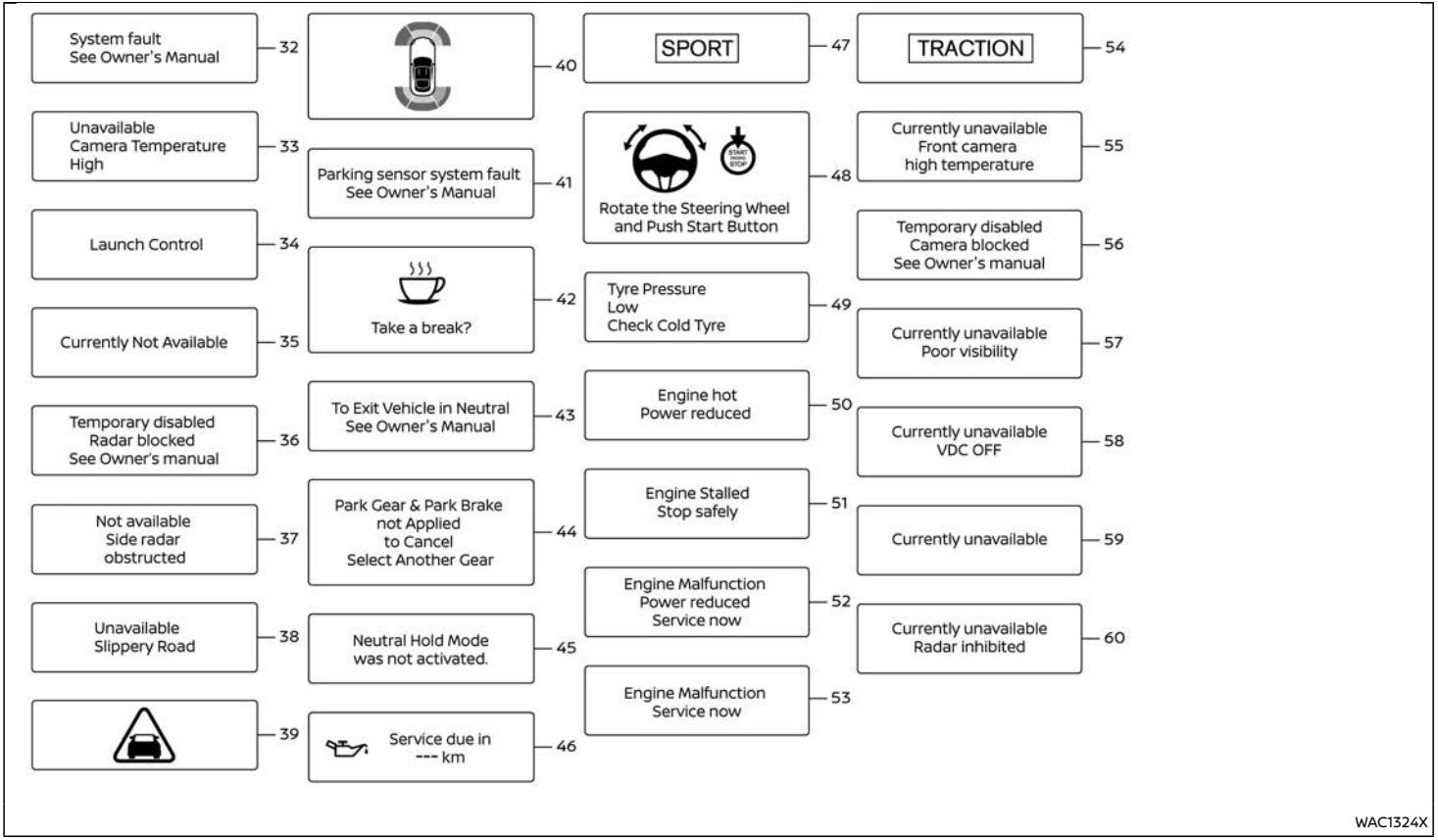
Factory Reset

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




System fault
See Owner's Manual
32
40
SPORT
47
TRACTION
54
Unavailable
Camera Temperature
High
33
Parking sensor system fault
See Owner's Manual
41
Rotate the Steering Wheel
and Push Start Button
48
Currently unavailable
Front camera
high temperature
55
Launch Control
34
Take a break?
42
Tyre Pressure
Low
Check Cold Tyre
49
Temporary disabled
Camera blocked
See Owner's manual
56
Currently Not Available
35
Currently unavailable
Poor visibility
57
Temporary disabled
Radar blocked
See Owner's manual
36
To Exit Vehicle in Neutral
See Owner's Manual
43
Engine hot
Power reduced
50
Currently unavailable
VDC OFF
58
Not available
Side radar
obstructed
37
Park Gear & Park Brake
not Applied
to Cancel
Select Another Gear
44
Engine Stalled
Stop safely
51
Currently unavailable
59
Unavailable
Slippery Road
38
Neutral Hold Mode
was not activated.
45
Engine Malfunction
Power reduced
Service now
52
Currently unavailable
Radar inhibited
60
39
Service due in
--- km
46
Engine Malfunction
Service now
53
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1. Engine start operation indicator (Automatic Transmission models)

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. Engine start operation indicator (Manual Transmission models)

This indicator means that the engine will start by pushing the ignition switch with the clutch pedal depressed.

3. No key detected warning

This warning appears when the door is closed with the Intelligent Key left outside the vehicle and the ignition switch in the "ACC" or "ON" position. Make sure that the Intelligent Key is inside the vehicle.

See "Intelligent Key system" (P.3-4) for more details.

4. Intelligent Key battery discharge indicator

This indicator 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.8-17).

5. Engine start operation for Intelligent Key system 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" (P.8-17).)

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 vehicle speed is above 7 km/h (4 MPH) and the parking brake is applied.

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 reaches 0 (Empty).

9. Low Washer Fluid warning (if equipped)

This warning appears when the window washer fluid is at a low level. Add window washer fluid as necessary. For additional information, refer to "Window washer fluid" (P.8-15).

10. Door/rear hatch open warning

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

11. Low Tyre Pressure warning

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.2-14) and "Tire Pressure Monitoring System (TPMS)" (P.5-5).)

12. Shift to Park warning (Automatic Transmission models)

This warning appears in the following conditions:

- When the driver's door is opened while the shift position is other than "P" (Park).
  An inside warning chime will also sound. (See "Intelligent Key system" (P.3-4).)
- If the engine stops or stalls when the vehicle is not in "P" (Park) position.
  An inside warning chime will also sound.

If this warning appears, push the park button

to engage the "P" (Park) position.

13. AT Malfunction Service now warning (Automatic Transmission models)

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

14. AT hot Power reduced warning (Automatic Transmission models)

The AT 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. AT Malfunction Stop safely warning (Automatic Transmission models)

This warning appears when there is a malfunction with the AT 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. Stop the vehicle safely warning (Automatic Transmission models)

This warning appears when the AT 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.

17. Service AT Power reduced warning (Automatic Transmission models)

This warning appears when the AT power is reduced. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

18. 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.

19. Apply parking brake warning (Automatic Transmission models)

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.

20. Automatic Transmission (AT) position indicator (Automatic Transmission models)

This indicator shows the AT shift position.

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

See "Driving with Automatic Transmission (AT)" (P.5-11) for further details.

21. 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 fuse switch" (P.8-20).)

22. 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.

23. 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.

24. 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 "OFF" (if equipped) or "AUTO" position. For additional information, (See "Headlight and turn signal switch" (P.2-35).)

25. 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.

26. Time for a break? indicator

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

27. Lane Departure Warning (LDW) indicator (if equipped)

This indicator appears when the Lane Departure Warning (LDW) system is engaged.

(See "Lane Departure Warning (LDW)" (P.5-26).)

28. Blind Spot Warning (BSW) indicator (if equipped)

This indicator appears when the Blind Spot Warning (BSW) system is engaged.

(See "Blind Spot Warning (BSW)" (P.5-29).)

29. 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
- Intelligent Cruise Control (ICC)

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55), "Intelligent Forward Collision Warning" (P.5-63) or "Intelligent Cruise Control (ICC) system" (P.5-41).)

30. Cruise indicator

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.5-40).)

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.5-52).)

31. Speed control status/set distance (if equipped)

This indicator shows the status of the Intelligent Cruise Control (ICC) system. The status is shown by the color and shape. (See "Intelligent Cruise Control (ICC) system" (P.5-41).)

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

This warning appears when the following systems malfunction.

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

(See "Lane Departure Warning (LDW)" (P.5-26), "Blind Spot Warning (BSW)" (P.5-29), "Intelligent Cruise Control (ICC) system" (P.5-41), "Intelligent Emergency Braking with pedestrian detection system" (P.5-55), "Rear Cross Traffic Alert (RCTA)" (P.5-35), "Intelligent Driver Alertness" (P.5-69), "Intelligent Forward Collision Warning" (P.5-63) or "Traffic Sign Recognition (TSR)" (P.5-24).)

33. 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 can no longer function reliably.

- Lane Departure Warning (LDW)
- Traffic Sign Recognition (TSR)

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 "Lane Departure Warning (LDW)" (P.5-26) or "Traffic Sign Recognition (TSR)" (P.5-24).

34. Launch Control indicator

This indicator appears when the Launch Control system is engaged.

(See "Launch Control" (P.5-20).)

35. Currently Not Available warning (if equipped)

This warning appears when the Intelligent Cruise Control (ICC) system becomes unavailable in the following conditions:

- The Vehicle Dynamic Control (VDC) system is turned off.
- The Traction mode is turned on (NISMO models)

For additional information, refer to "Intelligent

Cruise Control (ICC) system" (P.5-41).

36. Temporary disabled Radar blocked See owner's Manual warning

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 system is automatically turned off.

- Intelligent Cruise Control (ICC)
- Intelligent Emergency Braking with Pedestrian Detection
- Intelligent Forward Collision Warning

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 "Intelligent Cruise Control (ICC) system" (P.5-41), "Intelligent Emergency Braking with pedestrian detection system" (P.5-55) or "Intelligent Forward Collision Warning" (P.5-63).

37. Not available Side radar obstructed warning (if equipped)

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

- Blind Spot Warning (BSW)
- Rear Cross Traffic Alert (RCTA)

(See "Blind Spot Warning (BSW)" (P.5-29) or "Rear Cross Traffic Alert (RCTA)" (P.5-35).)

38. Unavailable Slippery Road warning (if equipped)

This warning appears when the following systems become unavailable because the road is slippery.

- Intelligent Cruise Control (ICC)

(See "Intelligent Cruise Control (ICC) system" (P.5-41).)

39. 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.5-55).

40. Parking sensor (sonar) system indicator

This indicator appears to indicate the status of the parking sensor (sonar) system.

See "Parking sensor (sonar) system" (P.5-77).

41. Parking sensor system fault warning

This warning appears when there is a malfunction with the parking sensor (sonar) system. (See "Parking sensor (sonar) system" (P.5-77).)

42. 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.5-69).)

43. Neutral Hold Mode guidance indicator (Automatic Transmission models)

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.5-13).)

44. Neutral Hold Mode activated indicator (Automatic Transmission models)

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.5-13).)

45. Neutral Hold Mode was not activated indicator (Automatic Transmission models)

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.5-13).)

46. Engine Oil Service due in – – – km

This distance to oil change is displayed if the distance to oil change is less than 100 km (62 miles).

47. Drive Mode Selector indicator (Automatic Transmission models)

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

- SPORT+ (for NISMO models)
- SPORT
- STANDARD

(See "Drive Mode Selector" (P.5-15).)

48. Steering lock release malfunction indicator (if equipped)

This indicator appears when the steering wheel cannot be released from the "LOCK" position.

If this indicator appears, push the push-button ignition switch while lightly turning the steering wheel right and left.

49. Tyre Pressure Low Check Cold Tyre warning

This warning appears if the tire pressure becomes higher than the target pressure during a low tire pressure condition.

The warning message may appear when the tire pressure level drops, when there is a decrease of temperature or by under inflation of tire pressure, which may occur naturally. However, this is not a system malfunction, the user is advised to adjust the air pressure to the recommended tire pressure listed on the label. The warning message will disappear after adjusting the tire pressure properly.

Even if the tire pressure is above the preset target pressure, the yellow color in the tire pressure warning means that the tire pressure is actually too low. Tire pressure is increasing as the temperature inside the tire rises during driving. Check the tire pressure when the tire is cold.

50. Engine hot Power reduced warning

This warning appears when the engine temperature is extremely high. If this warning appears, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

51. Engine Stalled Stop safely warning

This warning appears when there is a malfunction with the engine system and the engine stops. 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.

52. Engine Malfunction Power reduced Service now warning

This warning appears when there is a malfunction with the engine system while driving. The engine and vehicle speed may be reduced. If this warning appears, have the system checked. It is recommended you visit a NISSAN dealer for this service.

53. Engine Malfunction Service now warning

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

54. Traction Mode indicator (NISMO models)

This indicator appears when the Traction mode is selected by using the VDC OFF switch in the VDC system. (See "Vehicle Dynamic Control (VDC)system" (P.5-21).)

55. Currently unavailable Front camera high temperature warning (for Australia and New Zealand)

This warning appears if the front camera temperature has reached such a high temperature that the Intelligent Emergency Braking with Pedestrian Detection systems can no longer function reliably.

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55).)

56. Temporary disabled Camera blocked See Owner's manual warning (for Australia and New Zealand)

If the front camera area of the windshield is frozen, making it impossible to detect a vehicle ahead, the Intelligent Emergency Braking with Pedestrian Detection system automatically turned off.

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55).)

57. Currently unavailable Poor visibility warning (for Australia and New Zealand)

This warning appears when the Intelligent Emergency Braking with Pedestrian Detection system becomes unavailable in the following conditions:

- Strong light (for example, sunlight or high beams) enters the front camera
- In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke, and road spray from other vehicles)

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55).)

58. Currently unavailable VDC OFF warning (for Australia and New Zealand)

This warning appears when the Intelligent Emergency Braking with Pedestrian Detection system becomes unavailable in the following conditions:

- The Vehicle Dynamic Control (VDC) system is turned off.
- The Traction mode is turned on (NISMO models)

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55).)

59. Currently unavailable warning (for Australia and New Zealand)

This warning appears when the Intelligent Emergency Braking with Pedestrian Detection system becomes unavailable in the following conditions:

- When being towed
- When the system check has not completed properly

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55).)

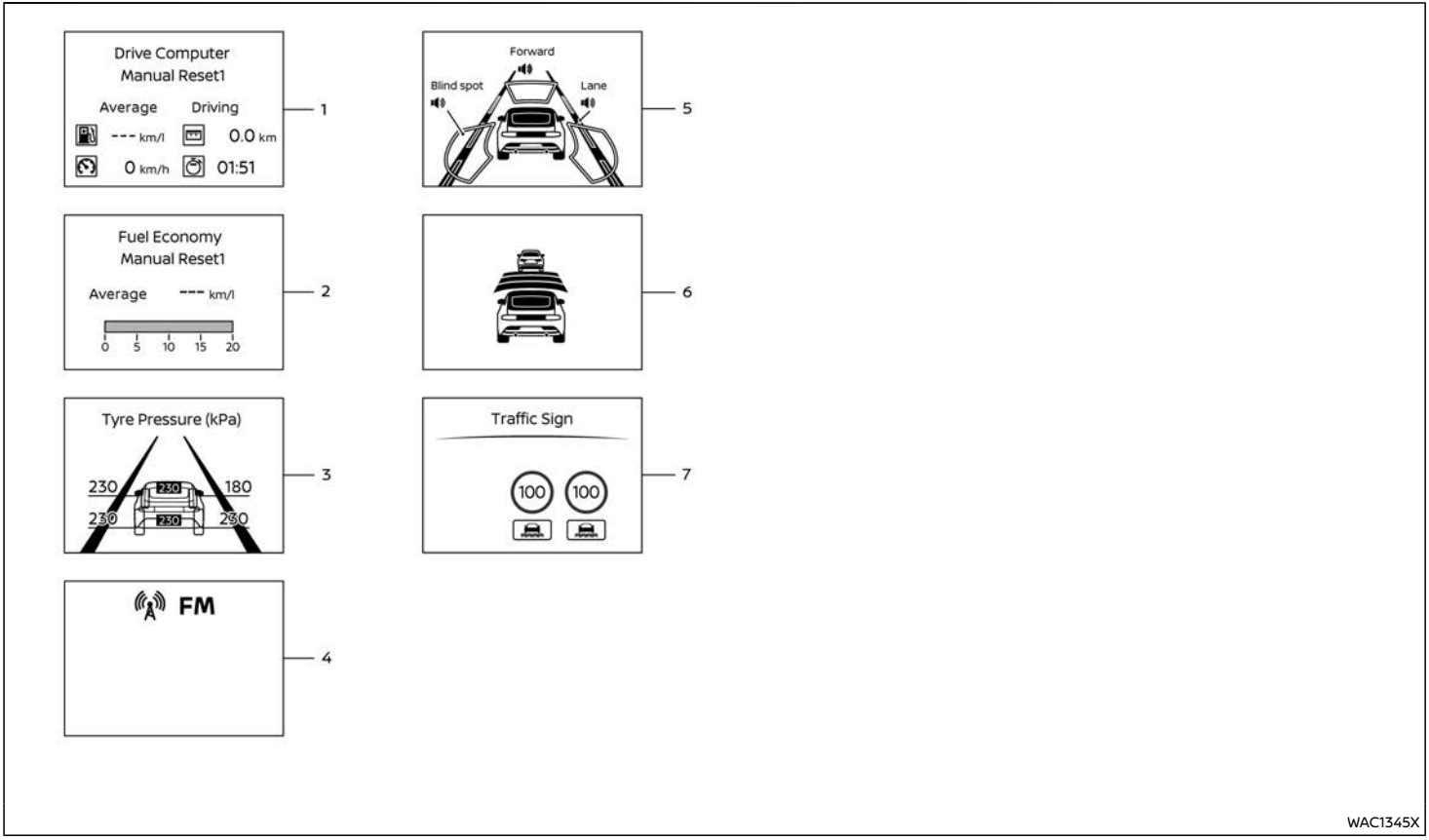
60. Currently unavailable Radar inhibited warning (for Australia and New Zealand)

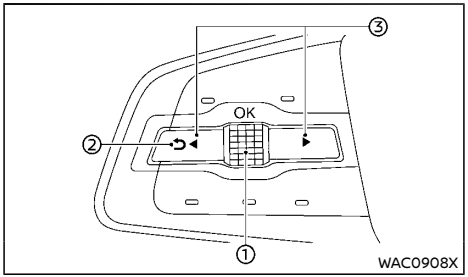
This warning appears when the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the following system is automatically turned off.

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

(See "Intelligent Emergency Braking with pedestrian detection system" (P.5-55) or "Intelligent Forward Collision Warning" (P.5-63).)

TRIP COMPUTER





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)

The displayed images may differ depending on the model.

1. 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 have three modes of operation. You can switch between Manual Reset1, Manual Reset2 or Auto Refuel by pushing the scroll dial ①.

Manual Reset1 and Manual Reset2 can be reset manually by using the scroll dial ①.

Auto Refuel will be reset automatically each time when refueling.

2. 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 have three modes of operation. You can switch between Manual Reset1, Manual Reset2 or Auto Refuel by pushing the scroll dial ①.

Manual Reset1 and Manual Reset2 can be reset manually by using the scroll dial ①.

Auto Refuel will be reset automatically each time when refueling.

3. Tire Pressures

The tire pressure mode shows the pressure of all four tires while the vehicle is driven.

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.

4. Audio

The audio mode shows the status of audio information.

5. Driver Assistance (if equipped)

The Driver Assistance mode shows the operating condition for the following systems.

- Forward:
  - Intelligent Emergency Braking with Pedestrian Detection (if equipped)
  - Intelligent Forward Collision Warning (if equipped)
- Lane:
  - Lane Departure Warning (LDW) (if equipped)
- Blind spot:
  - Blind Spot Warning (BSW) (if equipped)

The system becomes unavailable when (yellow) illuminates or flashes.

For more details, see "Intelligent Emergency Braking with pedestrian detection system" (P.5-55), "Intelligent Forward Collision Warning" (P.5-63), "Lane Departure Warning (LDW)" (P.5-26) or "Blind Spot Warning (BSW)" (P.5-29).

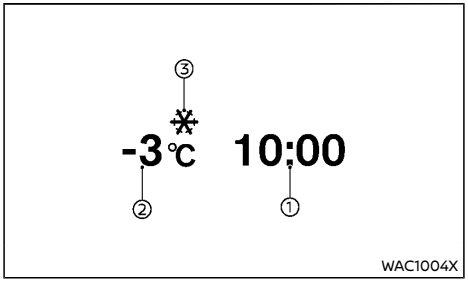
6. Intelligent Cruise Control (ICC) system (if equipped)

This mode shows the operating condition for the Intelligent Cruise Control (ICC) system. (See "Intelligent Cruise Control (ICC) system" (P.5-41).)

7. Traffic Sign Recognition (for Australia)

The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. See "Traffic Sign Recognition (TSR)" (P.5-24) 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.2-21)or the separate NissanConnect Owner's Manual.

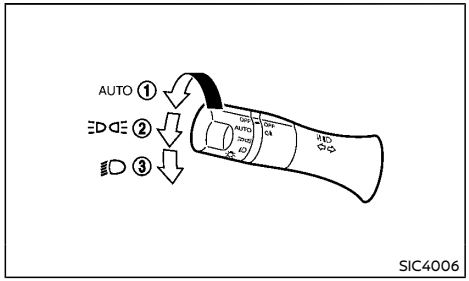
Outside air temperature (°C or °F)

The outside air temperature is displayed in °C or °F in the range of −30 to 60°C (−22 to 140°F).

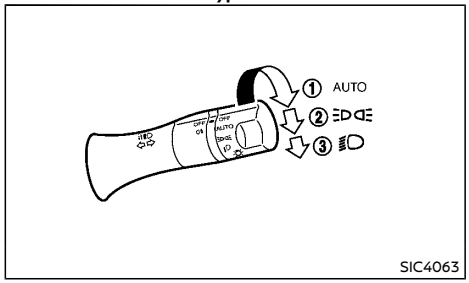
The outside air temperature mode includes a low temperature warning feature. If the outside air temperature is below −3°C (27°F), the indicator ③ is displayed.

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 or billboards.

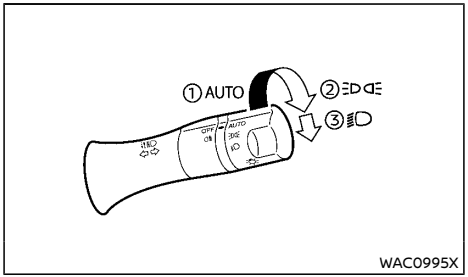
HEADLIGHT SWITCH



Type A



Type B



WAC0995X

Type C

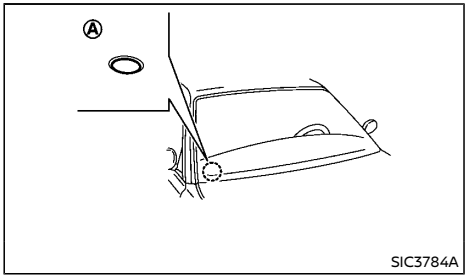
NISSAN recommends that you consult the local regulations concerning the use of lights.

AUTO position

When the ignition switch is in the "ON" position and the headlight switch is in the "AUTO" position ①, the headlights, front clearance lights, instrument panel lights, rear combination lights and other lights turn on automatically depending on the brightness of the surroundings.

The headlights will turn on automatically at twilight.

When the ignition switch is pushed to the "OFF" position, the lights will turn off automatically.



SIC3784A

CAUTION:

Do not place any objects on top of the sensor Ⓐ. The sensor senses the brightness level and controls the autolight function. If the sensor is covered, it reacts as if it is dark, and the headlights will illuminate.

position

The position ② turns on the front clearance, instrument panel, tail and license plate lights.

The daytime running lights will turn on. (for Mexico)

The daytime running lights will turn off. (except for Mexico)

position

The position ③ turns on the headlights in addition to the other lights.

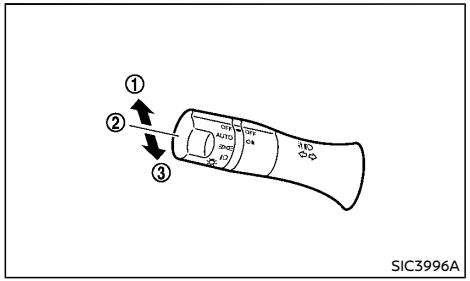
Automatic headlights off delay:

You can keep the headlights on for up to 180 seconds after you push the ignition switch to 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 45 seconds.

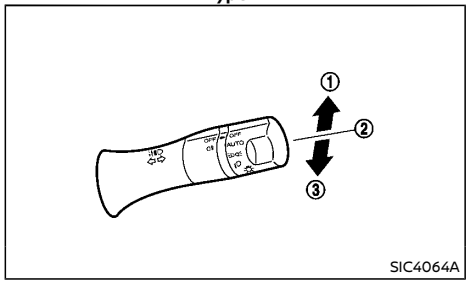
For automatic headlights off delay setting, see "Vehicle Settings" (P.2-21).

Headlight beam



SIC3996A

Type A



SIC4064A

Type B

To turn on the high beam, push the lever

towards the front position ①.

To turn off the high beam, return the lever to the neutral position ②.

To flash the headlights, pull the lever towards the rearmost position ③. The headlights can be flashed even when the headlights are not on.

High beam assist (if equipped)

The high beam assist system will operate when the vehicle is driven at the following speeds and above.

- approximately 40 km/h (25 MPH)

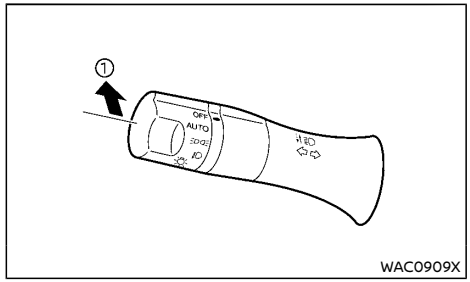
If an oncoming vehicle or leading vehicle appears in front of your vehicle when the headlight high beam is on, the headlight will be switched to the low beam automatically.

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 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.**

High beam assist operations:



WAC0909X

To activate the high beam assist system, turn the headlight switch to the "AUTO" position and push the lever forward ① (high beam position). The high beam assist indicator light in the meter will illuminate while the headlights are turned on.

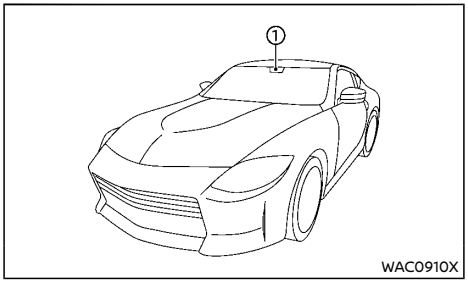
If the high beam assist indicator light does not illuminate in the above condition, it may indicate that the system is not functioning properly. Have the system checked by a NISSAN dealer.

When the vehicle speed lowers to less than the following speeds, the headlight remains the low beam.

- approximately 30 km/h (19 MPH)

To turn off the high beam assist system, turn the headlight switch to the position or select the low beam position by placing the lever in the neutral position.

Ambient image sensor maintenance:



The ambient image sensor ① 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.

Daytime running light system

For Mexico:

The daytime running lights automatically illuminate when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the "OFF", "AUTO" (when the headlights are off) or position. Turn the headlight switch to the position for full illumination when driving at night.

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate once the parking brake is released. The daytime running lights will remain on until the ignition switch is pushed to the "OFF" position.

Except for Mexico:

The daytime running lights automatically illuminate when the engine is started. The daytime running lights operate with the headlight switch in the "OFF" (if equipped) or "AUTO" position (when the headlights are off). Turn the headlight switch to the position for full illumination when driving at night. When the headlight switch is in either the or the position, the daytime running lights will turn off.

WARNING:

When the daytime running light system is active with the headlight switch in the "OFF" position (if equipped), tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

BATTERY SAVER SYSTEM

The light reminder chime will sound if the driver's door is opened while the following improper operations are found:

- The headlight switch is in either the or position, and the ignition switch in the "ACC", "OFF" or "LOCK" position.

Be sure to turn the headlight switch to the "OFF" (if equipped) or "AUTO" position and the rear fog light switch to the "OFF" position when you leave the vehicle.

When the headlight switch is in either the or position while the ignition switch is in the "ON" position, the lights will automatically turn off after a period of time when the ignition switch has been pushed to the "OFF" position.

When the headlight switch remains in either the or position after the lights automatically turn off, the lights will turn on when the ignition switch is pushed to the "ON" position.

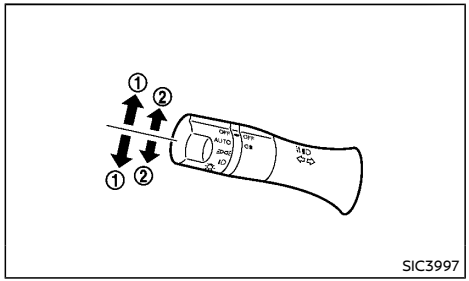
CAUTION:

Do not leave the lights on when the engine is not running for extended periods of time to prevent the battery from being discharged.

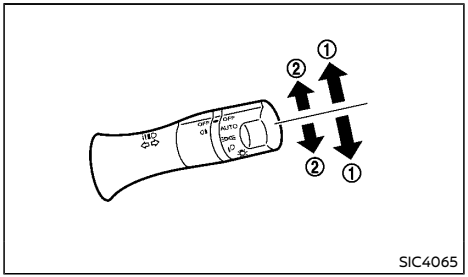
AUTOMATIC AIMING CONTROL (except for Mexico)

The headlights are equipped with the automatic leveling system. Headlight axis is controlled automatically.

TURN SIGNAL SWITCH



Type A



Type B

CAUTION:

The turn signal switch will not be canceled automatically if the steering wheel turning angle does not exceed the preset amount. After the turn or lane change, make sure that the turn signal switch is returned to its original position.

Turn signal

To turn on the turn signals, move the lever up or down ① to the point where the lever latches. When the turn is completed, the turn signal cancels automatically.

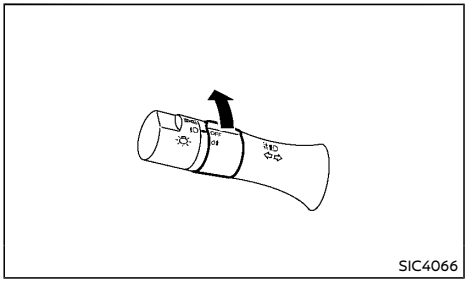
Lane change signal

To turn on the lane change signals, move the lever up or down ② to the point where the indicator light begins to flash, but the lever does not latch.

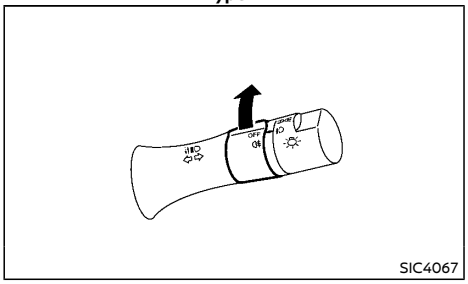
If the lever is moved back right after moving up or down, the light will flash 3 times (if equipped).

To cancel the flashing, move the lever to the opposite direction.

REAR FOG LIGHT



Type A



Type B

To turn on the rear fog light, turn the headlight switch to the position, then turn the fog light switch to the position.

The switch returns to the OFF position automatically, and the rear fog light will illuminate.

Make sure the indicator light on the instrument panel illuminates.

To turn off the rear fog light, turn the fog light switch to the position again.

Make sure the indicator light on the instrument panel turns off.

When the headlight switch is in the "AUTO" position:

- Turning the rear fog light switch to the position will turn on the headlights and the other lights while the ignition switch is in the "ON" position or the engine is running.

The rear fog light should be used only when visibility is seriously reduced [generally, to less than 100 m (328 ft)].

WIPER AND WASHER SWITCH

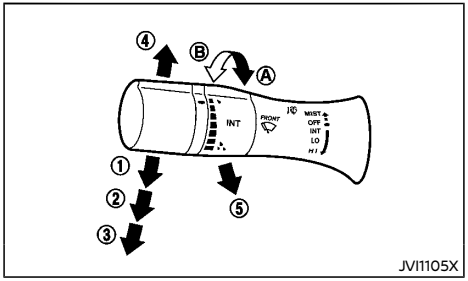
WARNING:

In freezing temperatures, the washer fluid may freeze on the windshield and obscure your vision. Warm the windshield with the defogger before you wash the windshield.

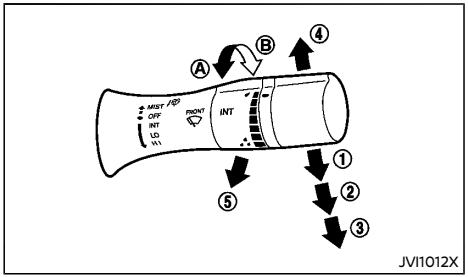
CAUTION:

- **Do not operate the washer continuously for longer than 30 seconds.**
- **Do not operate the washer if the window washer fluid reservoir is empty.**
- **If the 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 on and around the wiper arms. In approximately 1 minute, turn the switch on again to operate the wiper.**

WINDSHIELD WIPER AND WASHER SWITCH



Type A



Type B

The windshield wiper and washer operate when the ignition switch is in the "ON" position.

Wiper operation

The lever position "INT" ① operates the wiper intermittently.

- The intermittent operation can be adjusted by turning the adjustment control knob, (longer) Ⓐ or (shorter) Ⓑ.
- When the speed sensing wiper interval function is turned on, 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.)

  Note that the function is set to disabled as the factory default setting. To turn this function on and off, see "Vehicle Settings" (P.2-21).

The lever position "LO" ② operates the wiper at low speed.

The lever position "HI" ③ operates the wiper at high speed.

To stop the wiper operation, move the lever up to the "OFF" position.

The lever position "MIST" ④ operates the wiper one sweep. The lever automatically returns to its original position.

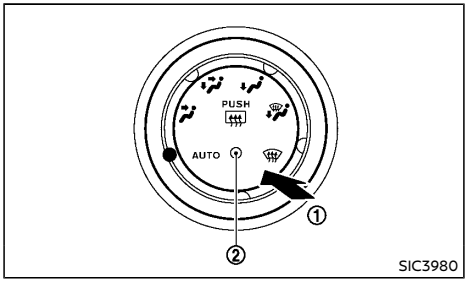
Washer operation

To operate the washer, pull the lever toward the back of the vehicle ⑤ until the desired amount of washer fluid is spread on the windshield. The wiper will automatically operate several times.

Wiper drip wipe system (if equipped):

The wiper will also operate once about 3 seconds after the washer and wiper are operated. This operation is to wipe washer fluid that has dripped on the windshield.

DEFOGGER SWITCH



The rear window and outside door mirror (if equipped) defogger switch operates when the ignition switch is in the "ON" position.

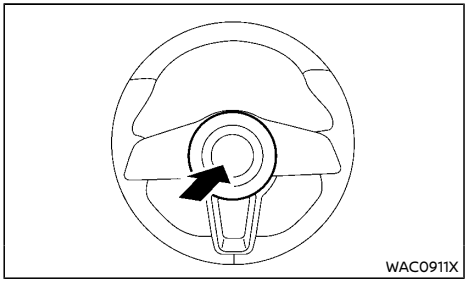
The defogger is used to reduce the moisture, fog or frost on the rear window surface to improve the rear views and on the outside rearview mirror surface to improve the side views (if equipped).

When the defogger switch ① is pushed, the indicator light ② illuminates and the defogger operates for approximately 15 minutes. After the preset time has passed, the defogger will turn off automatically. To turn off the defogger manually, push the defogger switch again, and the indicator light turns off.

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.

WINDOWS

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.**

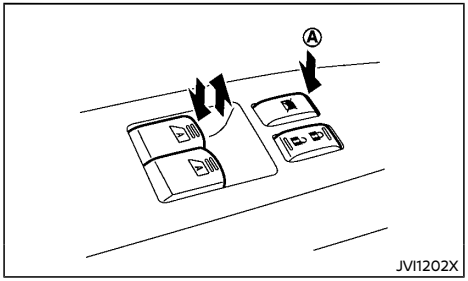
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature 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.

To open a window, push down the power window switch.

To close a window, pull up the power window switch.

Driver’s window switch



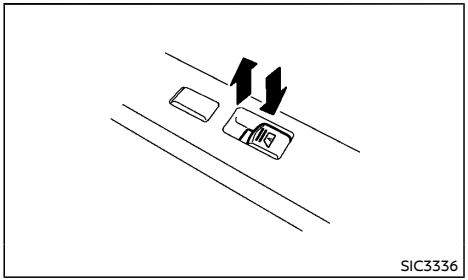
The driver’s switch, the main switch, can control all windows.

Locking passenger’s window:

When the lock button Ⓐ is pushed in, the passenger’s window cannot be operated.

To cancel the passenger’s window lock, push the lock button Ⓐ again.

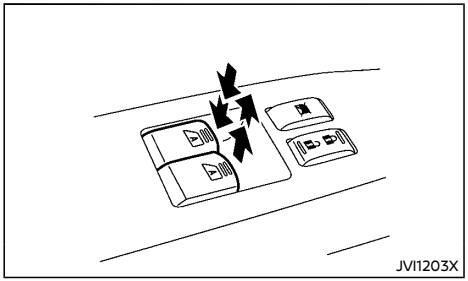
Passenger’s window switch



The passenger’s switch can control its corresponding window.

If the passengers’ windows lock button on the driver’s side switch is pushed in, the passenger’s switch cannot be operated.

Automatic function



The automatic function is available for the switch that has an A mark on its surface.

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.

Window timer:

The window timer allows the window switch to be operated for approximately 45 seconds even if the ignition switch is pushed to the “OFF” position. The window timer will be canceled when the driver’s or front passenger’s door is opened or the preset time has expired.

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 can be activated when the window is closed by automatic operation when the ignition switch is in the "ON" position or for 45 seconds after the ignition switch is pushed to the "OFF" position.

The auto-reverse function enables a window to automatically reverse when something is caught in the window as it is closing. 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.

Automatic adjusting function

CAUTION:

When the battery cable is removed from the battery terminal, do not close either of the front doors. The automatic window adjusting function will not work, and the side roof panel may be damaged.

The power window has an automatic adjusting function. When the door is being opened, the window is automatically lowered slightly to avoid contact between the window and the side roof panel. When the door is closed, the window is automatically raised slightly.

While the automatic adjusting function does not work, the window will be controlled as follows:

- When the door is opened, the window lowers for approximately 0.15 seconds.
- While the door is open, the window cannot be raised.

Operating windows with Intelligent Key (if equipped)

The windows can be opened by pushing the "UNLOCK" 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 "Using remote keyless entry system" (P.3-10).

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.

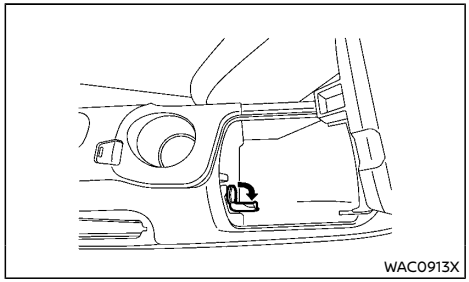
If the windows do not close automatically

If the power window automatic function (closing only) does not operate properly, perform the following procedure to initialize the power window system.

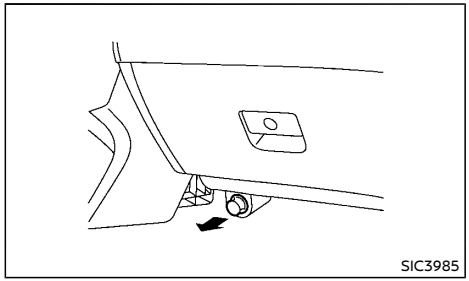
1. Push the ignition switch to start the engine.
2. Close the door.
3. After starting the engine, open the window completely by operating the power window switch.
4. Pull the power window switch and hold it to close the window, and then hold the switch more than 3 seconds after the window is closed completely.
5. Release the power window switch. Operate the window by the automatic function to confirm the initialization is complete.
6. Perform steps 2 through 5 above for other windows.

If the power window automatic function does not operate properly after performing the procedure above, have your vehicle checked by a NISSAN dealer.

POWER OUTLET



Center console



Lower glove box

A power outlet is located in the center console and on the lower glove box for powering electrical accessories such as a cellular telephone.

CAUTION:

- **The outlet and plug may be hot during or immediately after use.**
- **This power outlet is not designed for use with a cigarette lighter unit.**
- **Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one**

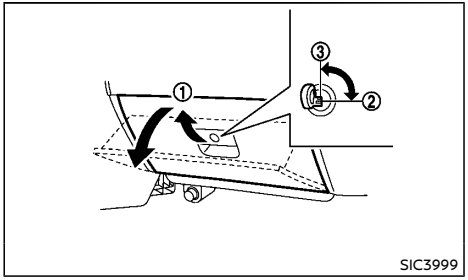
electrical accessory.

- **Use this power outlet with the engine running to avoid discharging the vehicle battery.**
- **Avoid using when the air conditioner, headlights or rear window defogger is on.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may blow.**
- **Before inserting or disconnecting a plug, be sure that the electrical accessory being used is turned off.**
- **When not in use, be sure to close the cap. Do not allow water to contact the outlet.**

WARNING:

- **The storages should not be used while driving so that the full attention may be given to vehicle operation.**
- **Keep the storage lids closed while driving to help prevent injury in an accident or a sudden stop.**

GLOVE BOX



SIC3999

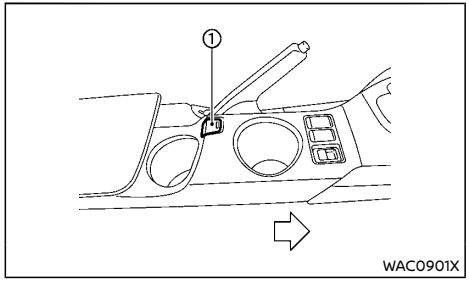
To open the glove box, pull the handle ①.

To close, push the lid in until the lock latches.

To lock ②/unlock ③ the glove box, use the mechanical key. For mechanical key usage, see "Keys" (P.3-2).

The glove box light (if equipped) illuminates when the headlight is turned on.

CONSOLE BOX



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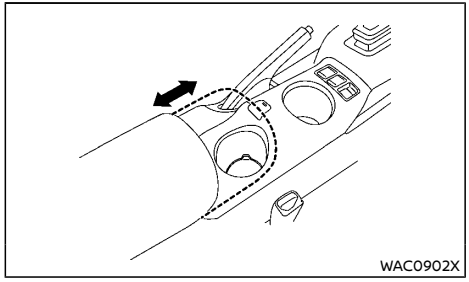
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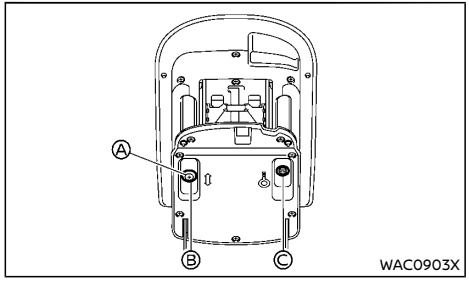


WAC0903X

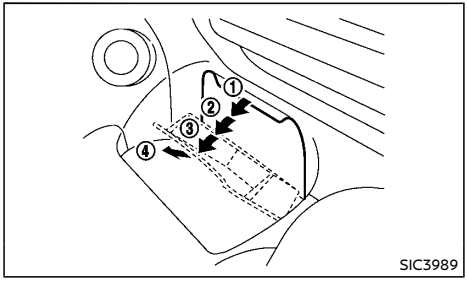
To open the console box, push the button ① and pull up the lid.

To close, push the lid down until latched.

The position of the console lid can be adjusted to your desired position. Slide the lid to forward or backward to the desired position.

The slide function can be locked when the lid is in maximum forward position by removing screw Ⓐ from position Ⓑ and installing in position Ⓒ. When not using the lock function, move screw Ⓐ to position Ⓑ and tighten.

REAR PARCEL BOX



The rear parcel box is located behind the right-side seat.

To open the rear parcel box, pull the upper part of the lid to position ① or ②.

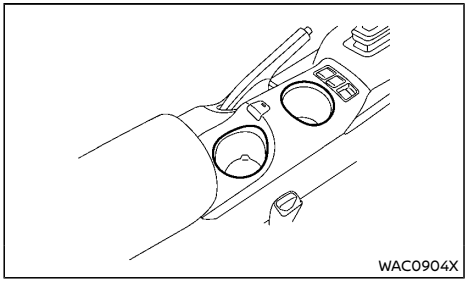
To remove the rear parcel box, pull the lid to position ③ with a greater force until it unlatches. And then, pull the rear parcel box to direction ④.

To install, make sure the two hinges of the rear parcel box engaged with the holders, then perform the steps above in the reverse order.

WARNING:

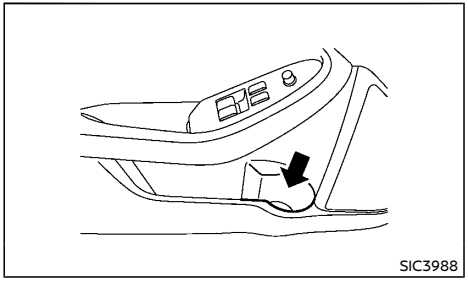
Keep the rear parcel box lid closed while driving to help prevent injury in an accident or a sudden stop.

CUP HOLDERS



The cup holders are located on the center console.

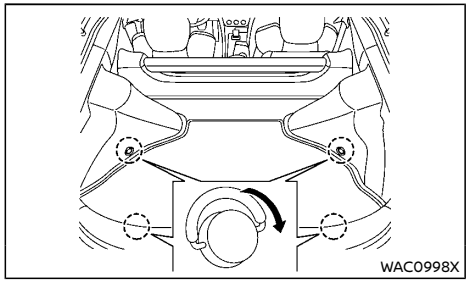
Soft bottle holder



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.**

LUGGAGE HOOKS

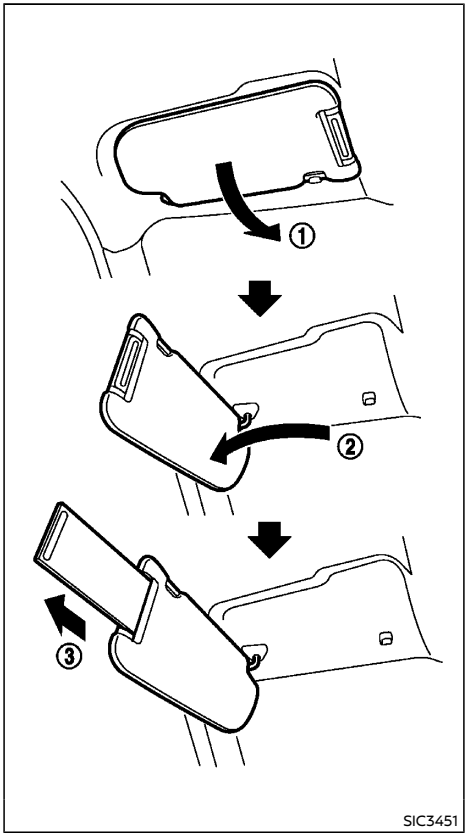


To use the hook, pull it down as illustrated.

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 10 kg (22 lb) to a single hook.**

SUN VISORS



CAUTION:

- **Do not store the main sun visor before storing the extension sun visor.**
- **Do not pull the extension sun visor forcedly downwards.**

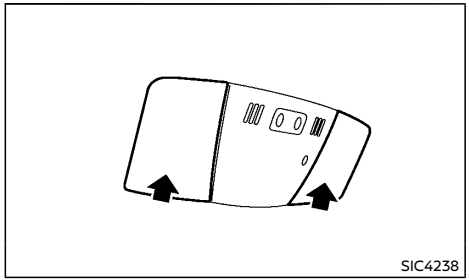
1. To block out glare from the front, swing down the main sun visor ①.
2. To block glare from the side, remove the main sun visor from the center mount and swing it to the side ②.
3. Draw out the extension sun visor ③ (if equipped) from the main sun visor to block further glare.

INTERIOR LIGHTS

CAUTION:

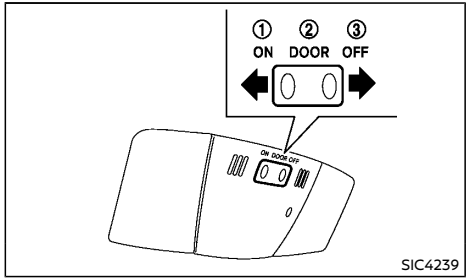
- **Turn off the lights when you leave the vehicle.**
- **Do not use the lights for extended periods of time with the engine stopped. This could result in a discharged battery.**

MAP LIGHTS



Push the button as illustrated to turn the light on or off.

INTERIOR LIGHT CONTROL SWITCH



The interior light control switch has three

positions: ON, DOOR and OFF.

ON position

When the switch is in the "ON" position ①, the map lights will illuminate.

DOOR position

When the switch is in the "DOOR" position ②, the map lights will illuminate under the following conditions:

- when the ignition switch is switched to the "OFF" or "LOCK" position.
  - The lights will remain on for about 15 seconds.
- when doors are unlocked by pushing the "UNLOCK" button on the Intelligent Key or door handle request switch with the ignition switch in the "LOCK" position.
  - The lights will remain on for about 15 seconds.
- when any door is opened and then closed with the ignition switch in the "LOCK" position.
  - The lights will remain on for about 15 seconds.
- when any door is opened with the ignition switch in the "ACC" or "ON" position.
  - The lights will remain on while the door is opened. When the door is closed, the lights will turn off.

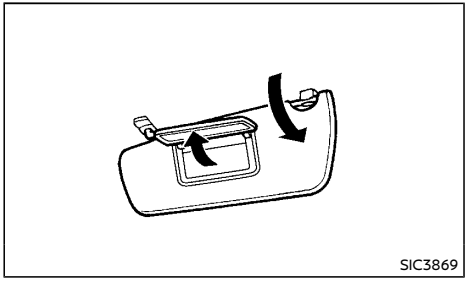
When the Auto room lamp is set to the OFF position (see "Vehicle Settings" (P.2-21)), the lights will illuminate under the following condition:

- any door is opened with the ignition switch in any position
  - remain on while the door is opened. When the door is closed, the lights go off.

OFF position

When the switch is in the "OFF" position ③, the lights will not illuminate, regardless of the condition.

VANITY MIRROR LIGHTS



To access the vanity mirror, pull the sun visor down and flip open the mirror cover.

The vanity mirror light illuminates when the vanity mirror cover is opened. When the cover is closed, the light will turn off.

CARGO ROOM LIGHT

The cargo room light illuminates when the rear hatch is opened. When the rear hatch is closed, the light will turn off.

BATTERY SAVER SYSTEM

When the interior light stays on, it will automatically turn off after a period of time when the ignition switch has been turned to the "OFF" position. To turn on the light again, push the ignition switch to the "ON" position.

HomeLink® UNIVERSAL TRANSCEIVER (for Mexico)

The HomeLink® Universal Transceiver provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

HomeLink® Universal Transceiver:

- Will operate most Radio Frequency (RF) devices such as garage doors, gates, home and office lighting, entry door locks and security systems.
- Is powered by your vehicle's battery. No separate batteries are required. If the vehicle's battery is discharged or is disconnected, HomeLink® will retain all programming.

When the HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (Example: new vehicle purchases). Upon sale of the vehicle, the programmed HomeLink® Universal Transceiver buttons should be erased for security purposes. For additional information, refer to "Programming HomeLink®" (P.2-48).

WARNING:

- **Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982). A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.**
- **During the programming procedure your garage door or security gate will open and close (if the transmitter is within range). Make sure that people or objects are clear of the garage door, gate, etc. that you are programming.**
- **Your vehicle's engine should be turned off while programming the HomeLink® Universal Transceiver. Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.**

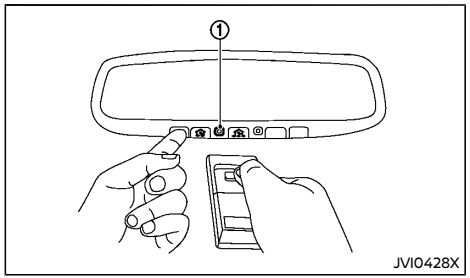
PROGRAMMING HomeLink®

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

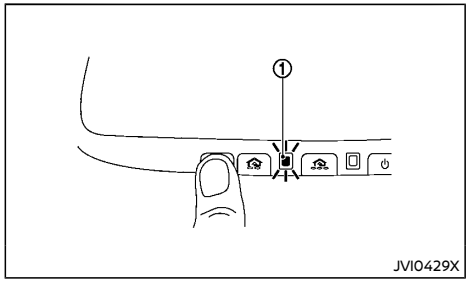
NOTE:

Place the ignition switch in the ON position (without starting the engine) when programming HomeLink®. It is also recommended that a new battery be placed in the hand-held transmitter of the device being programmed to HomeLink® for quicker programming and accurate transmission of the radio-frequency.

1. Position the end of your hand-held transmitter 26 to 76 mm (1 to 3 in) away from the HomeLink® surface, keeping the HomeLink® indicator light ① in view.



2. Using both hands, simultaneously press and hold the desired HomeLink® button and handheld transmitter button. DO NOT release until the HomeLink® indicator light ① flashes slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. (The rapid flashing indicates successful programming.)



3. Press and hold the programmed HomeLink® button and observe the indicator light.
   - If the indicator light ① is solid/continuous, programming is complete and your device should activate when the HomeLink® button is pressed and re-

leased.

- If the indicator light ① blinks rapidly for two seconds and then turns to a solid/continuous light, continue with Steps 4-6 for a rolling code device. A second person may make the following steps easier. Use a ladder or other device. Do not stand on your vehicle to perform the next steps.

4. At the receiver located on the garage door opener motor in the garage, locate the "learn" or "smart" button (the name and color of the button may vary by manufacturer but it is usually located near where the hanging antenna wire is attached to the unit). If there is difficulty locating the button, reference the garage door opener's manual.
5. Press and release the "learn" or "smart" button.

   NOTE:
   Once the button is pressed, you have approximately 30 seconds to initiate the next step.
6. Return to the vehicle and firmly press and hold the programmed HomeLink® button for two seconds and release. Repeat the "press/hold/release" sequence up to 3 times to complete the programming process. HomeLink® should now activate your rolling code equipped device.
7. If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or call 1-800-355-3515.

OPERATING THE HomeLink® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver, after it is programmed, can be used to activate the programmed device. To operate, simply press and release the appropriate programmed HomeLink® Universal Transceiver button. The amber indicator light will illuminate while the signal is being transmitted.

For convenience, the hand-held transmitter of the device may also be used at any time.

PROGRAMMING TROUBLESHOOTING

If the HomeLink® does not quickly learn the hand-held transmitter information:

- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- press and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 26 to 76 mm (1 to 3 in) away from the HomeLink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position - keeping the indicator light in view at all times.

If you have any questions or are having difficulty programming your HomeLink® buttons, refer to the HomeLink® web site at: www.homelink.com or 1-800-355-3515.

CLEARING THE PROGRAMMED INFORMATION

The following procedure clears the programmed information from both buttons. Individual buttons cannot be cleared. However, individual buttons can be reprogrammed, see "Reprogramming a single HomeLink® button" (P.2-49).

To clear all programming

1. Press and hold the two outer HomeLink® buttons until the indicator light begins to flash in approximately 10 seconds. Do not hold for longer than 20 seconds.
2. Release both buttons.

HomeLink® is now in the programming mode and can be programmed at any time beginning with "Programming HomeLink®" - Step 1.

REPROGRAMMING A SINGLE HomeLink® BUTTON

To reprogram a HomeLink® Universal Transceiver button, complete the following.

1. Press and hold the desired HomeLink® button. **Do not** release the button.
2. The indicator light will begin to flash after 20 seconds. Without releasing the HomeLink® button, proceed with "Programming HomeLink®" - Step 1.

For questions or comments, contact HomeLink® at: www.homelink.com or 1-800-355-3515.

The HomeLink® Universal Transceiver button has now been reprogrammed. The new device can be activated by pushing the HomeLink® button that was just programmed. This procedure will not affect any other programmed HomeLink® buttons.

IF YOUR VEHICLE IS STOLEN

If your vehicle is stolen, you should change the codes of any non-rolling code device that has been programmed into HomeLink®. Consult the Owner's Manual of each device or call the manufacturer or dealer of those devices for additional information.

When your vehicle is recovered, you will need to reprogram the HomeLink® Universal Transceiver with your new transmitter information.

3 Pre-driving checks and adjustments

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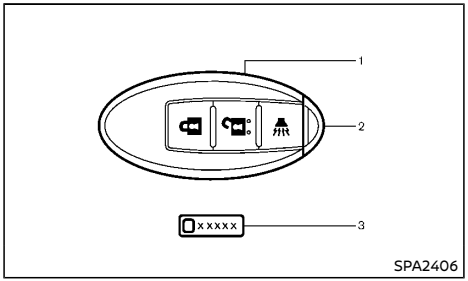
A key number plate is supplied with your key. Record the key number on the key number plate and keep it in a safe place (such as your wallet), NOT IN THE VEHICLE. NISSAN does not record key numbers so it is very important to keep track of your key number plate.

A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, this key can be duplicated by a NISSAN dealer.



1. Intelligent Key (2)
2. Mechanical key (2)
3. Key number plate (1)

WARNING:

- **The Intelligent Key transmits radio waves that can adversely affect medical electric equipment.**
- **If you have a pacemaker, you should contact the medical equipment manufacturer to ask if it will be affected by the Intelligent Key signal.**

INTELLIGENT KEY

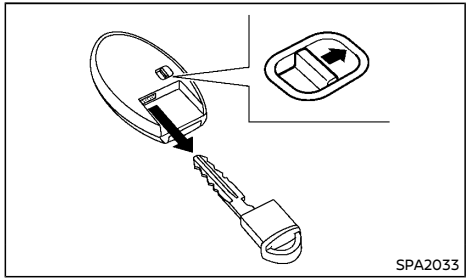
Your vehicle can only be driven with the Intelligent Keys, which are registered to your vehicle's Intelligent Key system components and the NISSAN Anti-Theft System (NATS) components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a NISSAN 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 system components when registering new keys, be sure to take all Intelligent Keys that you have to a NISSAN dealer.

It is possible that the Intelligent Key functions become canceled. Contact a NISSAN dealer.

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), 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 equipment that produces a magnetic field such as a TV, audio equipment and personal computers 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.

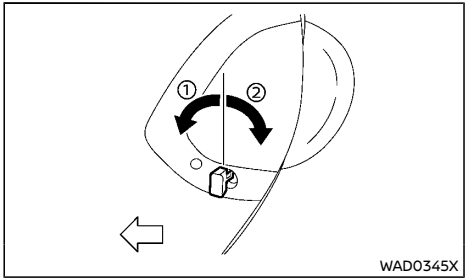
To install the mechanical key, firmly insert it into the Intelligent Key until the lock knob returns to the lock position.

Use the mechanical key to lock or unlock the doors and glove box. (See "Doors" (P.3-3) and "Storage" (P.2-44).)

WARNING:

- **Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.**
- **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.**

LOCKING WITH KEY

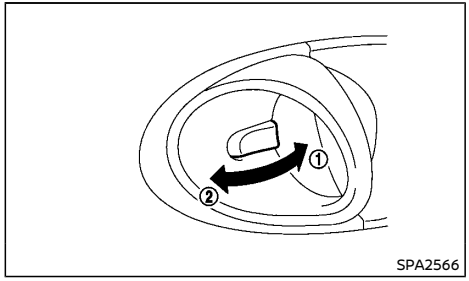


To lock the driver's door, insert the mechanical key to the door key cylinder and turn the key to the front of the vehicle ①.

To unlock the driver's door, turn the mechanical key to the rear of the vehicle ②.

To lock or unlock the other door, use the power door lock switch, the "LOCK" or "UNLOCK" button on the Intelligent Key or any door request switch.

LOCKING WITH INSIDE LOCK KNOB



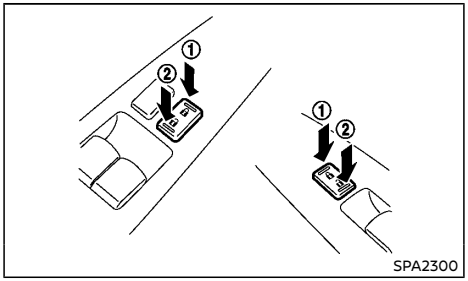
CAUTION:

When locking the doors using the inside lock knob, be sure not to leave the Intelligent Key in the vehicle.

To lock the door, push the inside lock knob to the lock position ①, and then close the door.

To unlock the door, push the inside lock knob to the unlock position ②.

LOCKING WITH POWER DOOR LOCK SWITCH



Operating the power door lock switch will lock or unlock all the doors.

To lock the doors, push the power door lock switch (located on the driver's and front passenger's doors) to the lock position ① with the driver's or front passenger's door open, then close the door.

To unlock the doors and the fuel-filler lid, push the power door lock switch to the unlock position ②.

CAUTION:

When locking the doors using the power door lock switch, be sure not to leave the Intelligent Key in the vehicle.

IMPACT SENSING DOOR LOCK RELEASING MECHANISM

All doors will be unlocked automatically when the impact sensors sense an impact while the ignition switch is in the "ON" position.

The impact sensing door lock releasing mechanism may not function depending on the force of the impact.

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 doors and the rear hatch using the remote controller function or pushing the request switch 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 are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, 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.

Since the Intelligent Key is continuously receiving radio waves, if the key is left near equipment which transmits strong radio waves, such as signals from a TV and personal computer, the battery life may become shorter.

For information regarding replacement of a battery, see "Battery" (P.8-16).

When the Intelligent Key battery is almost discharged, see "Intelligent Key battery discharge" (P.5-10) to start the engine.

For models with a steering wheel lock mechanism: Because the steering wheel is locked electrically, unlocking the steering wheel with the ignition switch in the "LOCK" position is impossible when the vehicle battery is completely discharged. Pay special attention that the vehicle battery is not completely discharged.

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, contact a NISSAN dealer.

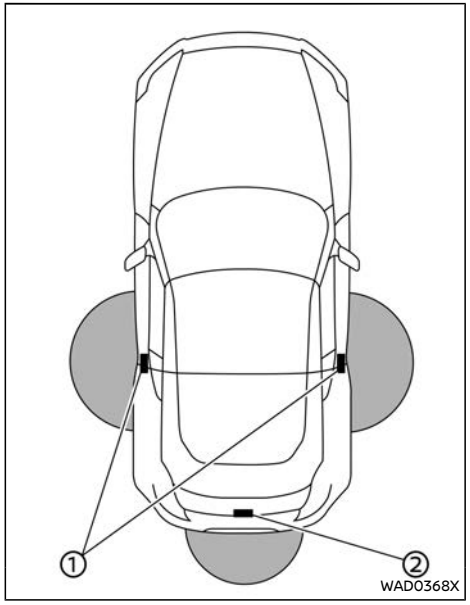
CAUTION:

- **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.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 60°C (140°F).**
- **If the outside temperature is below –10°C (14°F), the battery of the Intelligent Key may not function properly.**
- **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 and personal computers.**

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, contact a NISSAN dealer.

The Intelligent Key function can be disabled. For information about disabling the Intelligent Key function, contact a NISSAN dealer.

INTELLIGENT KEY OPERATING RANGE



The Intelligent Key functions can only be used when the Intelligent Key is within the specified operating range from the request switch ① and the rear hatch opener switch ②.

When the Intelligent Key battery is discharged or strong radio waves are present near the

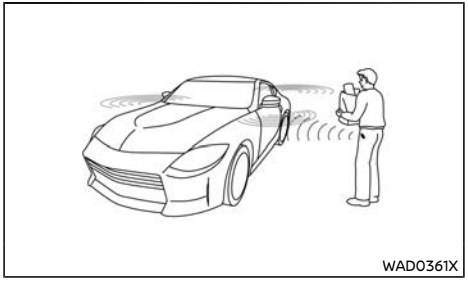
operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 80 cm (31.50 in) from each request switch ① and the rear hatch opener switch ②.

If the Intelligent Key is too close to the door glass, door handle or rear bumper, the request and the rear hatch opener switches 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 push the request switch ① to lock/unlock the doors and the rear hatch. It is also possible to push the rear hatch opener switch ② to open the rear hatch.

USING INTELLIGENT KEY SYSTEM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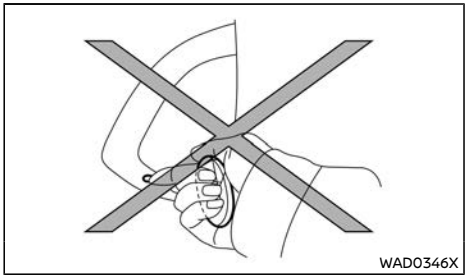
The request switch and the rear hatch opener switch will not function under the following conditions:

- When the Intelligent Key is not within the operational range
- When the Intelligent Key battery is discharged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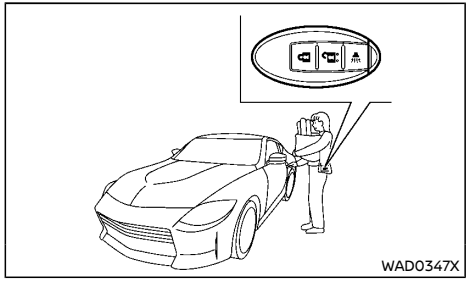
CAUTION:

- **Do not push the door handle 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 the doors using the door handle request switch, make sure that the doors have been securely locked by operating the door handles.**
- **When locking the doors using the door handle request switch, make sure to have the Intelligent Key in your possession before operating the door handle request switch to prevent the Intelligent Key from being left in the vehicle.**
- **The door handle request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.**
- **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 pushing the door handle request switch. The door will be unlocked but will not open. Release the door handle once and pull it again to open the door.**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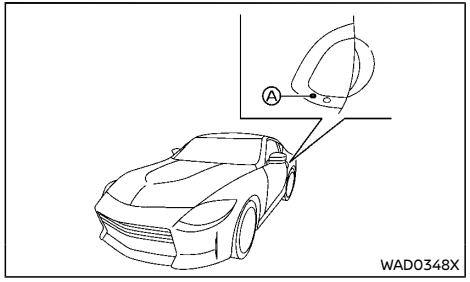

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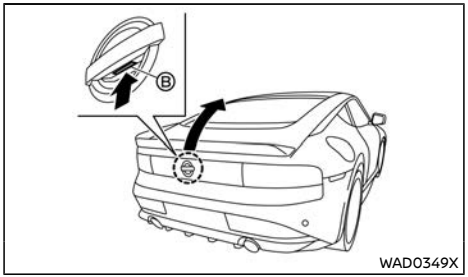

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When you carry the Intelligent Key with you, you can lock or unlock all doors and the rear hatch by pushing the door handle request switch (driver's or front passenger's) Ⓐ within the range of operation.

When you lock or unlock the doors and the rear hatch, the hazard indicator will flash and the horn (or the outside chime — if equipped) will sound as a confirmation. For details, see "Hazard indicator and horn operation" (P.3-11).

Welcome light and farewell light function

When you lock or unlock the doors and fuel-filler lid, front side marker lights (if equipped) and rear side marker lights (if equipped), the clearance lights, tail lights and the license plate lights will illuminate for a period of time.

Locking doors, rear hatch and fuel-filler lid

1. Push the ignition switch to the "OFF" position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors and the rear hatch.*2
3. Push the door handle request switch (driver's or front passenger's) while carrying the Intelligent Key with you.*3
4. All the doors, rear hatch and fuel-filler lid will lock.
5. Operate the door handles to confirm that the doors have been securely locked.

*1: Doors and the rear hatch will lock with the Intelligent Key while the ignition switch is in the "ACC" or "ON" position.

*2: Doors and the rear hatch will not lock with the Intelligent Key while any door or the rear hatch is open.

*3: Doors and the rear hatch will not lock by pushing the door handle request switch with the Intelligent Key inside the vehicle. However, when an Intelligent Key is inside the vehicle, doors and the rear hatch can be locked with another registered Intelligent Key.

Lockout protection:

To prevent the Intelligent Key from being accidentally locked in the vehicle, lockout protection is equipped with the Intelligent Key system.

- When the Intelligent Key is left in the vehicle and you try to lock the door using the power door lock switch or the driver's inside lock knob after getting out of the vehicle, all the doors will unlock automatically and a chime will sound after the door is closed.

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 on the top of the rear parcel.**
- **When the Intelligent Key is placed inside of the glove box.**
- **When the Intelligent Key is placed inside of the door pockets.**
- **When the Intelligent Key is placed inside or near metallic materials.**

Unlocking doors and fuel-filler lid

To change the door unlock mode from one to another, see "Vehicle Settings" (P.2-21) (if equipped).

Selective door unlock mode (if equipped):

1. Carry the Intelligent Key with you.
2. Push the door handle request switch Ⓐ (driver's or front passenger's door).
3. The corresponding door will be unlocked. (The fuel-filler lid will be unlocked when the driver's door handle request switch is pushed.)
4. Push the door handle request switch again within 1 minute.
5. All the doors and the rear hatch will be unlocked.
6. Operate the door handles to open the doors.

All door unlock mode:

1. Carry the Intelligent Key with you.
2. Push the door handle request switch Ⓐ.
3. All doors, the rear hatch and the fuel-filler lid will be unlocked.

The rear hatch can be unlocked and opened by pushing the rear hatch opener switch. See "Rear hatch" (P.3-15) .

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, push the door handle request switch to unlock the door.

All doors, the rear hatch and fuel-filler lid will be locked automatically unless one of the following operations is performed within 1 minute after pushing the request switch while the doors are locked.

- Opening any door and/or the rear hatch.
- 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 the next preset time.

Opening rear hatch

To open only the rear hatch, perform the following procedure.

1. Carry the Intelligent Key.
2. Push the rear hatch opener switch Ⓑ.
3. The rear hatch will open.

BATTERY SAVER SYSTEM

When all the following conditions are 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 "ACC" position, and
- All doors are closed, and
- The shift position is in the "P" (Park) position (Automatic Transmission models).

WARNING SIGNALS

The Intelligent Key system is equipped with a function that is designed to minimize improper operations of the Intelligent Key and to help prevent the vehicle from being stolen. The warning buzzer sounds and the warning display appears on the vehicle information display when improper operations are detected.

See the troubleshooting guide on the next page. For warning and indicators on the vehicle information display, see "Vehicle information display (except sports mode display)" (P.2-18).

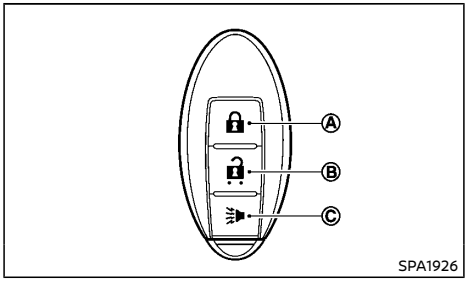
CAUTION:

When the buzzer sounds and the warning display appears, be sure to check both the vehicle and the Intelligent Key.

TROUBLESHOOTING GUIDE

Symptom		Possible cause	Action to take
When opening the driver's door to get out of the vehicle	The inside warning chime sounds continuously.	The ignition switch is in the "ACC" position.	Push the ignition switch to 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 3 times and the inside warning chime sounds for approximately 3 seconds.	The ignition switch is in the "ACC" or "ON" position.	Push the ignition switch to the "OFF" position.
	The "Shift to Park" warning appears on the display and the outside chime sounds continuously (Automatic Transmission models).	The ignition switch is in the "ACC" or "OFF" position and the shift position is not in the "P" (Park) position.	Push the park button to engage the "P" (Park) position and push the ignition switch to the "OFF" position.
When closing the door with the inside lock knob turned to "LOCK"	The outside chime sounds for approximately 3 seconds and all the doors unlock.	The Intelligent Key is inside the vehicle and cargo room area.	Carry the Intelligent Key with you.
When pushing the door handle request switch to lock the door	The outside chime sounds for approximately 2 seconds.	The Intelligent Key is inside the vehicle and cargo room area.	Carry the Intelligent Key with you.
		A door is not closed securely.	Close the door securely.
When the shift position is in the "P" (Park) position (Automatic Transmission models)	The inside warning chime sounds continuously.	The ignition switch is in the "ACC" or "ON" position.	The ignition switch is in the "OFF" position.

USING REMOTE KEYLESS ENTRY SYSTEM



Operating range

The remote keyless entry system allows you to lock/unlock all doors, the fuel-filler lid and the rear hatch, and to open the windows. The operating distance depends upon the conditions around the vehicle. To securely operate the lock and unlock buttons, approach the vehicle to about 1 m (3.3 ft) from the door.

The remote keyless entry system will not function under the following conditions:

- When the Intelligent Key is not within the operational range.
- When the Intelligent Key battery is discharged.

CAUTION:

- **After locking the doors using the Intelligent Key, be sure that the doors have been securely locked by operating the door handles.**
- **When locking the doors using the Intelligent Key, be sure not to leave the key in the vehicle.**

When you lock or unlock the doors and the rear hatch, the hazard indicator will flash and the horn (or the outside chime — if equipped) will sound as a confirmation. For details, see "Hazard indicator and horn operation" (P.3-11).

Locking doors, rear hatch and fuel-filler lid

1. Push the ignition switch to the "OFF" position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors and the rear hatch.*2
3. Push the "LOCK" button Ⓐ on the Intelligent Key.
4. All the doors, the rear hatch and fuel-filler lid will lock.
5. Operate the door handles to confirm that the doors have been securely locked.

*1: Doors and the rear hatch will lock with the Intelligent Key while the ignition switch is in the "ACC" or "ON" position.

*2: Doors and the rear hatch will not lock with the Intelligent Key while any door or the rear hatch is open.

Unlocking doors, rear hatch and fuel-filler lid

To change the door unlock mode from one to another on the vehicle information display, see "Vehicle Settings" (P.2-21).

Selective door unlock mode (if equipped):

1. Push the "UNLOCK" button Ⓑ on the Intelligent Key.
2. The driver's door and fuel-filler lid will be unlocked.
3. Push the "UNLOCK" button again within 1 minute.
4. All doors and rear hatch 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, rear hatch and the fuel-filler lid will be unlocked.

All doors, rear hatch and the fuel-filler lid will be locked automatically unless one of the following operations is performed within 1 minute after pushing the "UNLOCK" button on the Intelligent Key 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 the next preset time.

Opening windows (if equipped)

The windows can be opened with the Intelligent Key. This function will not operate while the window timer is activated or the windows need to be initialized.

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.

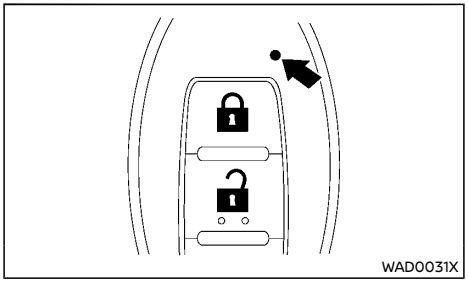
If the window open operation is stopped on the way while pushing the "UNLOCK" button, release and push the button again until the windows open completely.

Using panic alarm

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 1 second.**
2. The theft warning alarm and headlights (if equipped) 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 are pushed. (Note: Panic button should be pushed for more than 1 second.)

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.8-17).

HAZARD INDICATOR AND HORN OPERATION

When you lock or unlock the doors or the rear hatch, the hazard indicator will flash and the horn (or the outside chime) will sound as a confirmation.

The following descriptions show how the hazard indicator and horn will activate when locking or unlocking the doors or rear hatch.

Hazard indicator and horn mode

Operation	DOOR LOCK	DOOR UNLOCK
Intelligent Key system (using request switch)	HAZARD - **twice** OUTSIDE CHIME - **twice**	HAZARD - **once** OUTSIDE CHIME - **once**
Remote keyless entry system (using or button)	HAZARD - **twice** HORN - **once**	HAZARD - **once** HORN - none

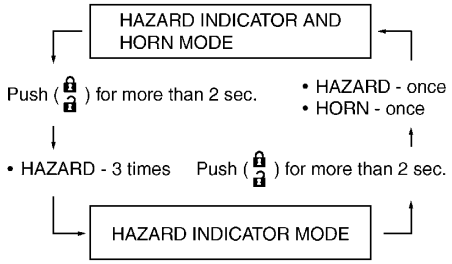
Hazard indicator mode

Operation	DOOR LOCK	DOOR UNLOCK
Intelligent Key system (using request switch)	HAZARD - **twice**	HAZARD - none
Remote keyless entry system (using or button)	HAZARD - **twice**	HAZARD - none

Switching procedure (if equipped)

The horn beep feature can be deactivated with the following procedures.

1. Push the "LOCK" and "UNLOCK" buttons simultaneously for more than 2 seconds.
2. The hazard indicator flashes 3 times.
3. The horn beep feature will be deactivated (Hazard indicator mode).
4. To reactivate the horn beep feature (Hazard indicator and horn mode), push the buttons once more. The hazard indicator flashes once and the horn beeps once.



SECURITY SYSTEM

Your vehicle is equipped with both of the following security systems:

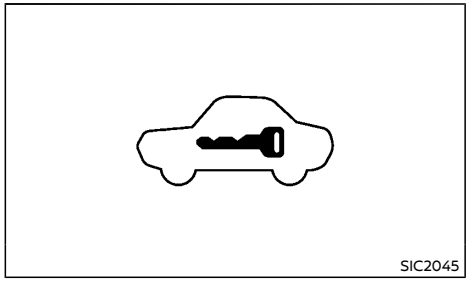
- Theft warning system (if equipped)
- NISSAN ANTI-THEFT SYSTEM (NATS)

The security condition will be shown by the security indicator light.

THEFT WARNING SYSTEM (if equipped)

The theft warning system provides visual and audio alarm signals if parts of the vehicle are disturbed.

Security indicator light



The security indicator light is located in the meter panel.

This light operates whenever the ignition switch is in the "ACC", "OFF" or "LOCK" position. This is normal.

System operation

How to activate system:

1. Close all windows and push the ignition switch to the "OFF" position.

   The system can be activated even if the windows are open.
2. Carry the Intelligent Key with you and get out of the vehicle.
3. Make sure the hood is closed. Close and lock all doors with the door handle request switch, "LOCK" button on the Intelligent Key or power door lock switch.
4. Confirm that the security indicator light comes on. The security indicator light stays on for about 30 seconds. The vehicle security system is now pre-armed. After about 30 seconds the vehicle security system automatically shifts into the armed phase. The security light begins to flash once every approximately 3 seconds.

   If, during this 30-second pre-arm time period, the door is unlocked with the door handle request switch, the "UNLOCK" button on the Intelligent Key, the power door lock switch, or the ignition switch is pushed to the "ACC" or "ON" position, the system will not arm.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors locked and ignition switch in the "LOCK" position. Push the ignition switch to the "ACC" or "ON" position to turn the system off.

Theft warning system operation:

The warning system will give the following alarm:

- The hazard indicator or headlights blink and the horn sounds intermittently for approximately 30 seconds (except for Mexico) or 1 minute (for Mexico).
- The alarm automatically turns off after approximately 30 seconds (except for Mexico) or 1 minute (for Mexico). However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated when:

- operating the door without using the key system.
- operating the hood.

How to stop alarm:

- The alarm will stop by unlocking a door with the "UNLOCK" button on the key or the door handle request switch.
- The alarm will stop if the ignition switch is pushed to the "ACC" or "ON" position.

If the system does not operate as described above, have it checked by a NISSAN dealer.

NISSAN ANTI-THEFT SYSTEM (NATS)

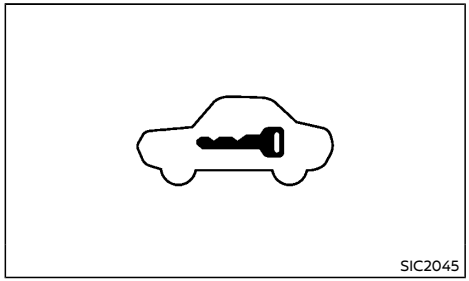
The NISSAN Anti-Theft System (NATS) will not allow the engine to start without the use of the registered NATS key.

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.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Security indicator light



The security indicator light is located in the meter panel. It indicates the status of NATS.

The light operates whenever the ignition switch is in the "LOCK", "ACC" or "OFF" position. The security indicator light indicates that the security systems on the vehicle are operational.

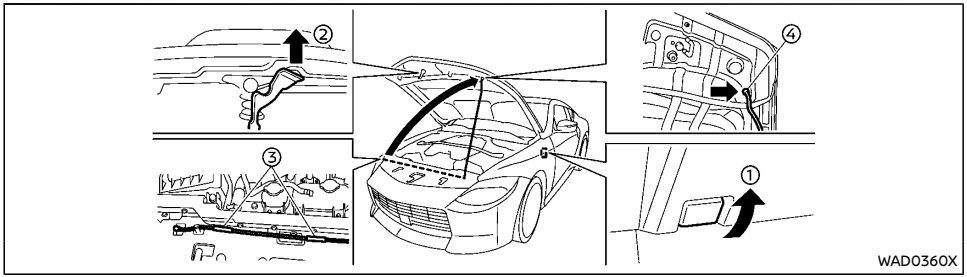
If NATS is malfunctioning, this light will remain on while the ignition switch is in the "ON" position.

If the light remains on and/or the engine does not start, contact a NISSAN dealer for NATS service as soon as possible. Be sure to bring all NATS Keys that you have when visiting a NISSAN dealer for service.

HOOD

WARNING:

- **The hood must be closed and latched securely 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.**
- **Do not pull the hood lock release handle ① or push the hood down after the pop-up engine hood system activates. Doing so could cause injury or damage to the hood because the hood cannot be closed manually after the system is activated. When the pop-up engine hood activates, contact a NISSAN dealer.**



When opening the hood:

1. Pull the hood lock release handle ① located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever ② up at the front of the hood with your fingertips and raise the hood.
3. Hold the insulator ③ of the support rod and insert its end into the slot ④ on the front edge of the hood.

When closing the hood:

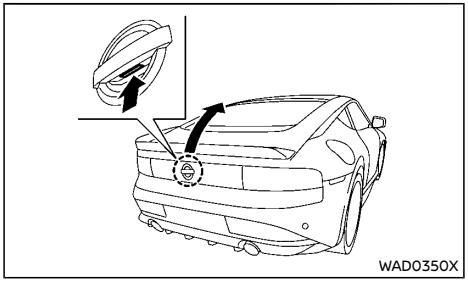
1. While supporting the hood, return the support rod to its original position.
2. Slowly lower the hood to about 20 to 30 cm (8 to 12 in) above the hood lock, then let it drop.
3. Make sure it is securely latched.

REAR HATCH

WARNING:

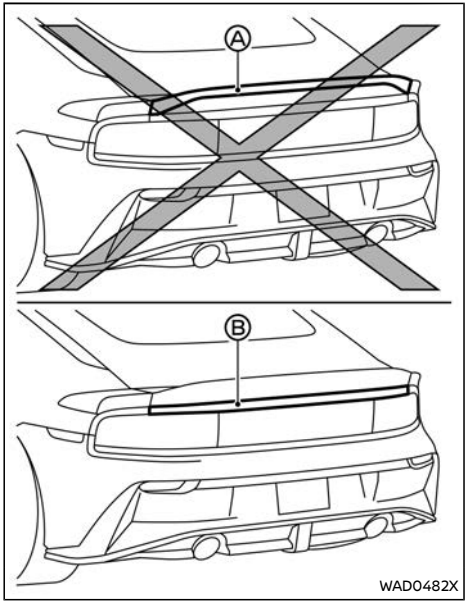
The rear hatch must be closed securely before driving. An open rear hatch could allow dangerous exhaust gases to be drawn inside the vehicle.

REAR HATCH OPENER SWITCH


WAD0350X

The rear hatch can be opened by pushing the rear hatch opener switch when the Intelligent Key is within the operating range of the rear hatch lock/unlock function regardless of the inside lock knob position. (See "Intelligent Key system" (P.3-4).)

NISMO models



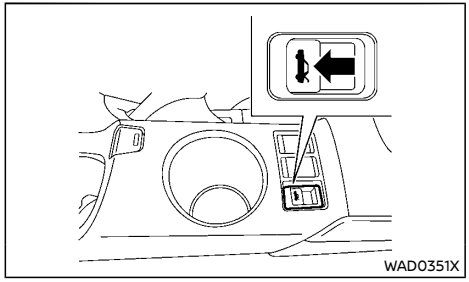
WAD0482X

CAUTION:

Do not use the rear spoiler Ⓐ to open or close the rear hatch. Doing so may damage the rear spoiler.

Always hold area Ⓑ to open or close the rear hatch.

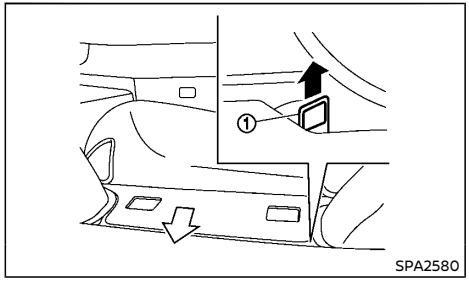
REAR HATCH RELEASE SWITCH


WAD0351X

The rear hatch release switch is located on the center console.

Pull the rear hatch release switch to release the rear hatch.

SECONDARY REAR HATCH RELEASE



SPA2580

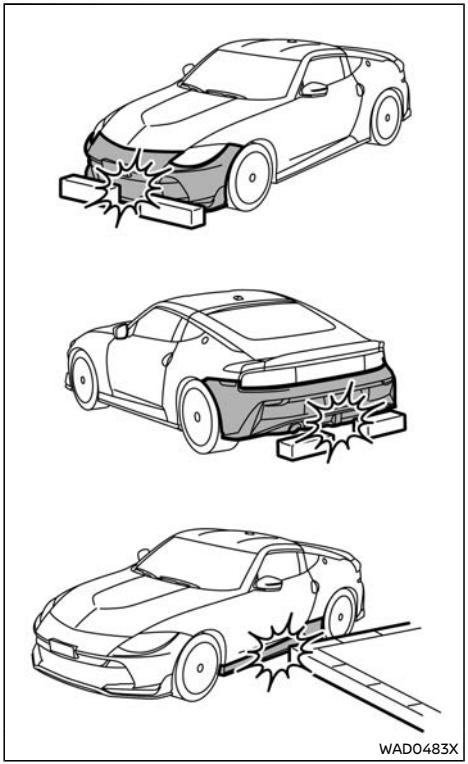
The secondary rear hatch release mechanism allows opening the rear hatch in the event of discharged battery or emergency.

The release handle is located under the cargo room floor. To open the rear hatch from the passenger compartment, perform the following procedure.

1. Remove the cargo floor mat.
2. Find the rear hatch release handle ① as shown in the illustration.
3. Free the release handle that is fixed with hook-and-loop fastener.
4. Firmly pull the release handle until the rear hatch releases.

If you use the release handle to open, return the release handle to its original position after each use.

FRONT, SIDE AND REAR UNIQUE PARTS (NISMO models)


WAD0483X

The NISMO models have the following unique parts on the front, side and rear of the vehicle.

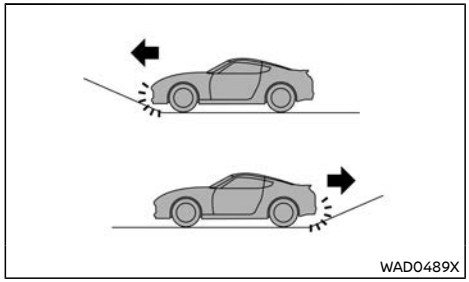
- Front bumper with an aerodynamic splitter
- Rear bumper with an aerodynamic diffuser
- Side sill extensions

These parts are close to the ground and may be damaged if they contact objects such as curbs, parking blocks, etc.

CAUTION:

Reduce vehicle speed to decrease the possibility of damaging these parts when:

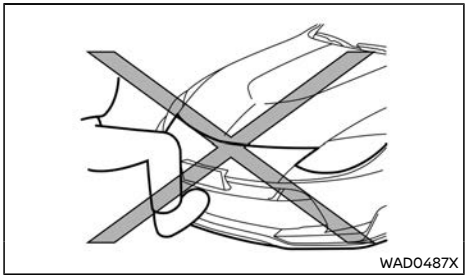
- **driving on bumpy or rutted roads**
- **entering or exiting parking garages and driveways**
- **driving over speed bumps**


WAD0489X

CAUTION:

The approach and departure angles are small. Reduce vehicle speed when the vehicle approaches or leaves a steep hill. Otherwise, the front bumper with an aerodynamic splitter and rear bumper with an aerodynamic diffuser may contact the road surface and be damaged.

FUEL-FILLER LID


WAD0487X

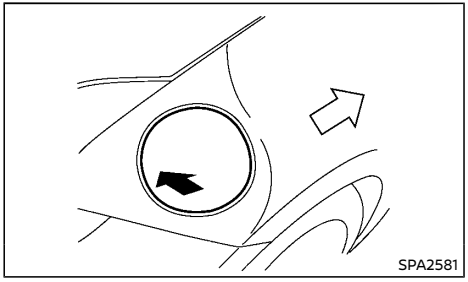
CAUTION:

Do not step on the front bumper with an aerodynamic splitter. Doing so could damage it.

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 the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.**
- **Fuel may be under pressure. Turn the cap a half of a turn, and wait for any "hissing" sound to stop to prevent fuel from spraying out and possibly causing personal injury. Then remove the cap.**
- **Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury.**

OPENING FUEL-FILLER LID

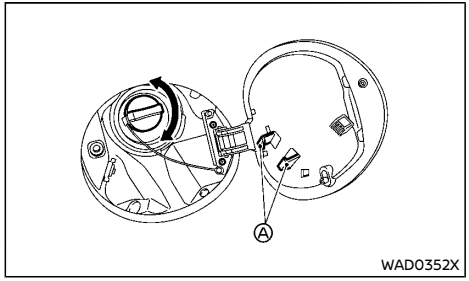

SPA2581

To open the fuel-filler lid, unlock it using one of the following operations, then push the left side of the lid.

- Push the door handle request switch with the Intelligent Key carried with you.
- Push the "UNLOCK" button on the Intelligent Key.
- Insert the mechanical key into the door key cylinder and turn it to the rear of the vehicle (if equipped).
- Push the power door lock switch to the "UNLOCK" position.

To lock the fuel-filler lid, close the lid until it securely locks.

FUEL-FILLER CAP



WAD0352X

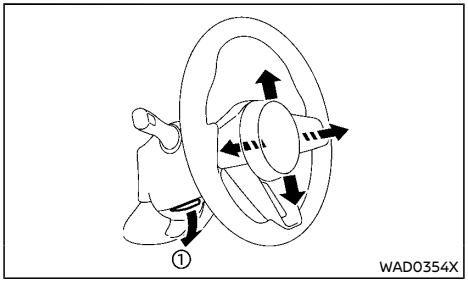
Turn the fuel-filler cap counterclockwise to remove. To tighten, turn the cap clockwise until a single click is heard.

Use the fuel-filler cap holder on the hook Ⓐ while refueling.

CAUTION:

- **If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.**

STEERING WHEEL



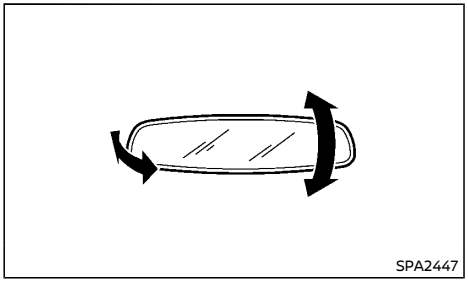
WARNING:

Never adjust the steering wheel while driving so that full attention may be given to vehicle operation.

TILT AND TELESCOPIC OPERATION

Push the lock lever ① down and adjust the steering wheel up, down, forward or rearward to the desired position. Pull the lock lever up securely to lock the steering wheel in place.

MIRRORS



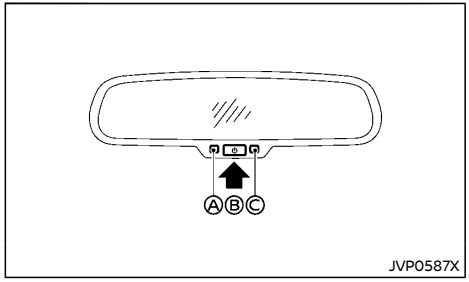
WARNING:

Adjust the position of all mirrors before driving. Do not adjust the mirror positions while driving so that full attention may be given to vehicle operation.

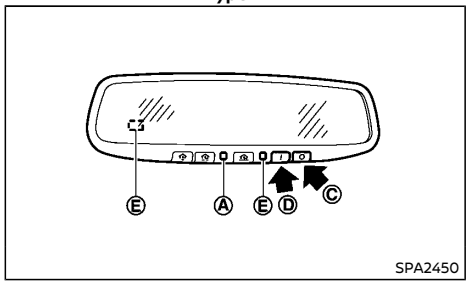
INSIDE REARVIEW MIRROR

While holding the inside rearview mirror, adjust the mirror angles until the desired position is achieved.

Automatic anti-glare type



Type A



Type B

The inside 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 pushed to 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.

While the shift lever is in the R (Reverse)

position, the automatic anti-glare function does not operate.

Type A:

Push the ⏻ switch Ⓑ for 3 seconds to make the inside mirror operate normally and the indicator light will turn off. Push the ⏻ switch Ⓑ again for 3 seconds 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.

Type B:

Push the ○ switch Ⓒ to make the inside mirror operate normally. The indicator light will turn off. Push the I switch Ⓓ to turn the system on.

Do not allow any object to cover the sensors Ⓔ or apply glass cleaner on them. Doing so will reduce the sensitivity of the sensor, resulting in improper operation.

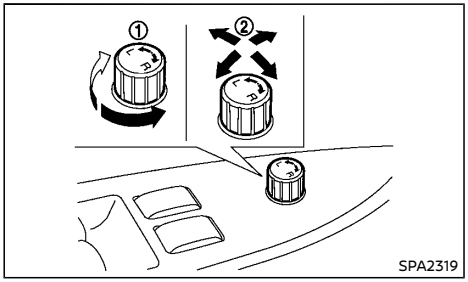
For the HomeLink® Universal Transceiver operation, see "HomeLink® Universal Transceiver (for Mexico)" (P.2-48).

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



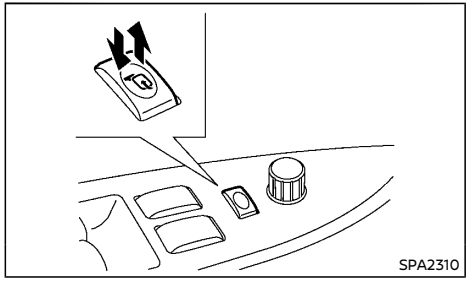
The outside rearview mirror remote control operates when the ignition switch is in the "ACC" or "ON" position.

1. Turn the switch to select the left (L) or right (R) mirror ①.
2. Adjust each mirror by pushing the switch until the desired position is achieved ②.

Defogging (if equipped)

The outside rearview mirrors will be heated when the rear window defogger switch is operated.

Folding



The outside rearview mirror remote control operates when the ignition switch is in the "ACC" or "ON" position.

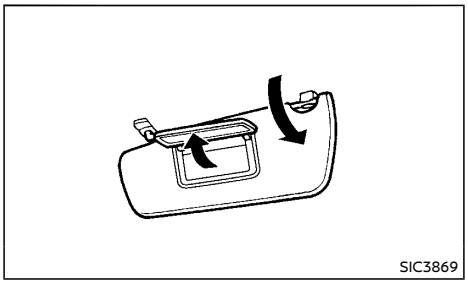
The outside rearview mirrors automatically fold when the outside rearview mirror folding switch is pushed in. To unfold, push the switch again.

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.**

PARKING BRAKE

VANITY MIRROR


SIC3869

To use the front vanity mirror, pull down the sun visor and pull up the cover.

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 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.**

CAUTION:

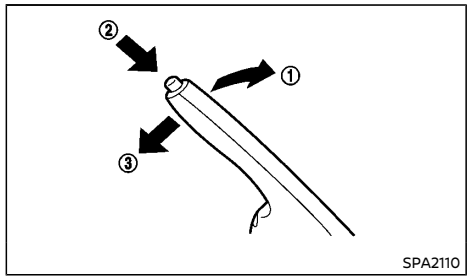
When parking in an area where the outside temperature is below 0°C (32°F), the parking brake, if applied, may freeze in place and may be difficult to release.

Manual Transmission (MT) models:

For safe parking, it is recommended that you place the shift lever in the 1st or "R" (Reverse) position and securely block the wheels.

Automatic Transmission (AT) models:

For safe parking, it is recommended that you place the shift position in the "P" (Park) position and securely block the wheels.



SPA2110

To apply the parking brake, pull the parking brake lever up ①.

To release the parking brake, depress and hold the foot brake pedal. Pull up the parking brake lever slightly, push the button ② and lower the lever completely ③.

Before driving, be sure that the brake warning light has turned off.

4 Display screen, heater and air conditioner, and audio system

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- Difference between predictive and actual distances 4-3
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- Center ventilators 4-7
- Side ventilators 4-7

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- Window antenna 4-11

Car phone and CB radio 4-11

NISSANCONNECT OWNER'S MANUAL

For models with NissanConnect System, refer to the 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
- Voice recognition
- Information and settings viewable on NissanConnect

SAFETY PRECAUTIONS

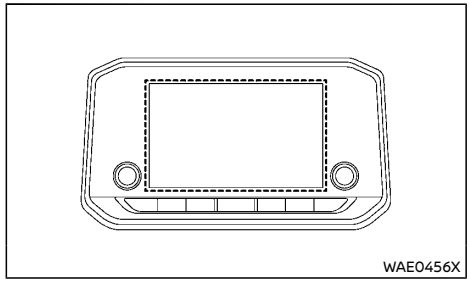
WARNING:

- **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.

REARVIEW MONITOR



WARNING:

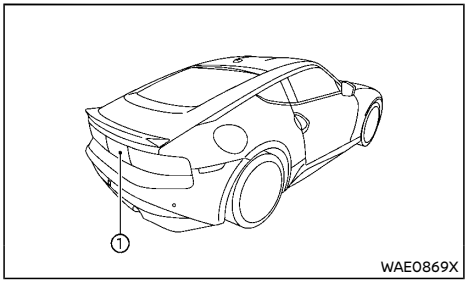
Failure to follow the warnings and instructions for proper use of the rear view monitor could result in serious injury or death.

- **The rear view monitor is a convenience but it 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:

Do not scratch the camera lens when cleaning dirt or snow from the front of the camera.

The rear view monitor system automatically shows a rear view of the vehicle in the camera window on the touch screen display when the shift lever is shifted into the "R" (Reverse) position.

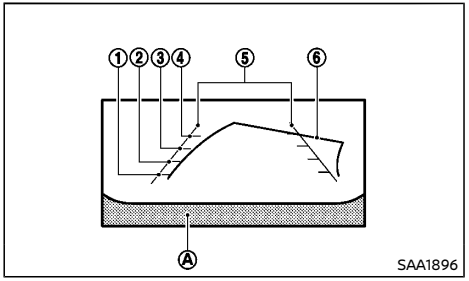


To display the rear view, the rear view monitor system uses a camera ① located on the rear hatch finisher.

REAR VIEW MONITOR SYSTEM OPERATION

With the ignition switch in the "ON" position, move the shift lever to the "R" (Reverse) position to operate the rear view monitor.

HOW TO READ 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 bumper.

- Red line ①: approx. 0.5 m (1.5 ft)
- Yellow line ②: approx. 1 m (3 ft)
- Green line ③: approx. 2 m (7 ft)
- Green line ④ (if equipped) : approx. 3 m (10 ft)

Vehicle width guide lines ⑤:

Indicate the approximate vehicle width.

Predictive course lines ⑥:

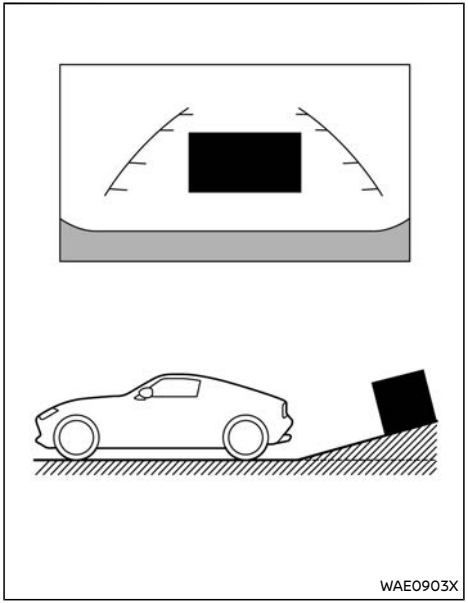
Indicate the predictive course when backing up. The predictive course lines will be displayed on the monitor when the shift lever is in the "R" (Reverse) position and the steering wheel is turned. The predictive course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the neutral position.

The vehicle width guide lines and the width of the predicted course lines are wider than the actual width and course.

DIFFERENCE BETWEEN PREDICTIVE AND ACTUAL DISTANCES

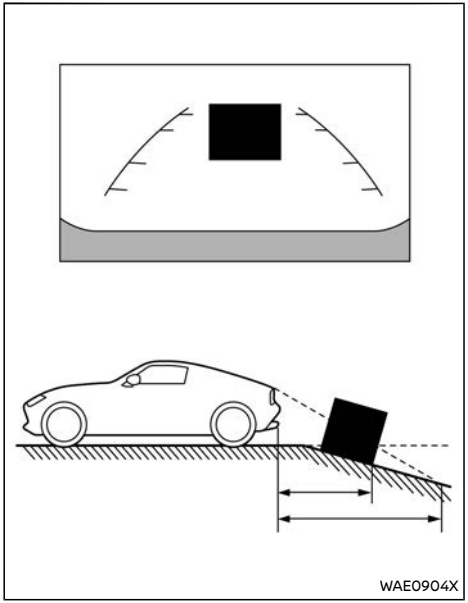
The displayed guide lines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guide lines (refer to illustrations). When in 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



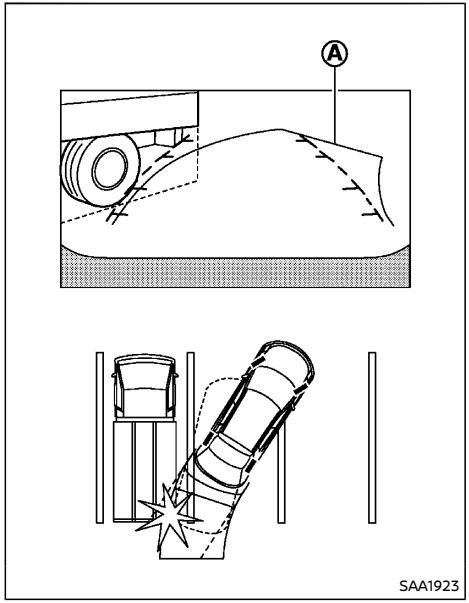
When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is farther than it appears on the monitor.

Backing up on a steep downhill



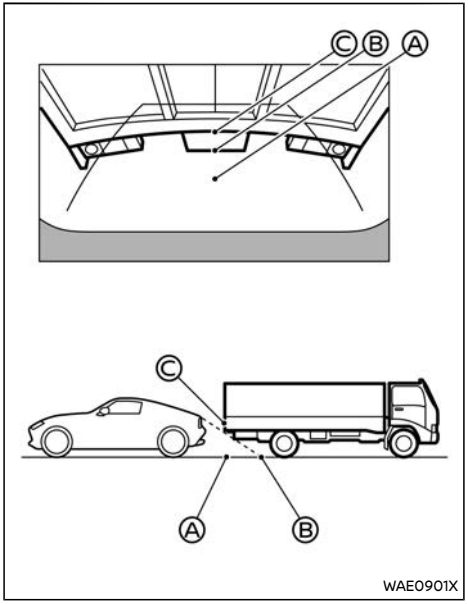
When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown farther than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

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

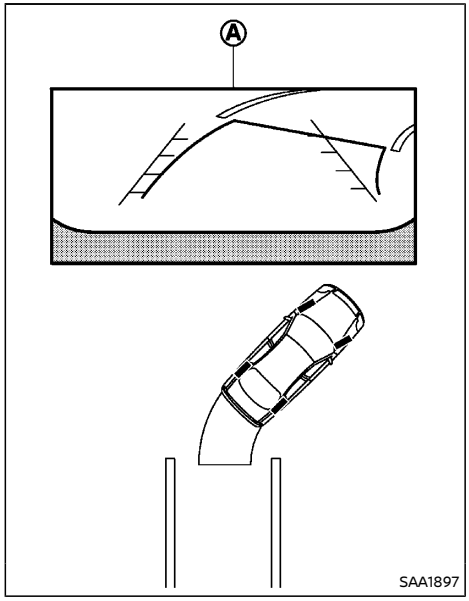


The position Ⓒ is shown farther than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when backing up to the position Ⓐ if the object projects over the actual backing up course.

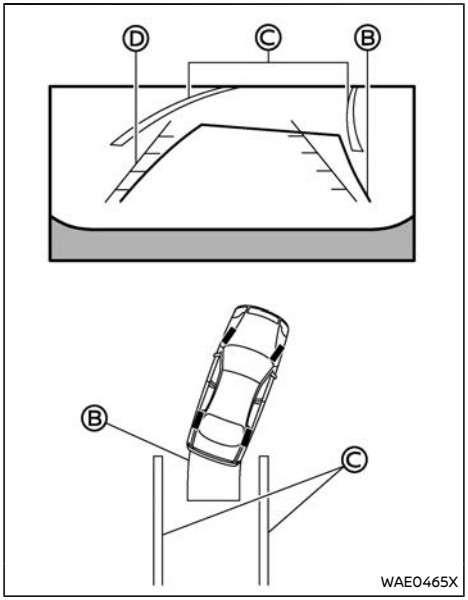
HOW TO PARK WITH PREDICTIVE COURSE LINES

WARNING:

- **If the tires are replaced with different sized tires, the predictive course lines may not be displayed correctly.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course lines and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predictive course lines may not be displayed correctly. If this occurs, 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 "ACC" position, the predictive course lines may be displayed incorrectly.**

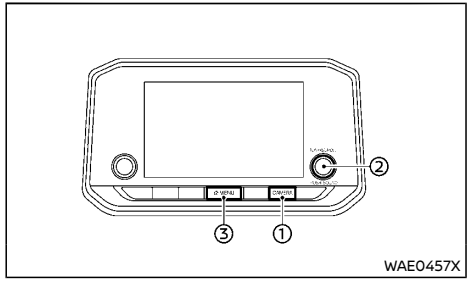


1. Visually check that the parking space is safe before parking your vehicle.
2. The rear view of the vehicle is displayed on the screen Ⓐ as illustrated when the shift lever is moved to the "R" (Reverse) position.



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 (Automatic Transmission models) or the shift lever in the "N" (Neutral) position (Manual Transmission models) and apply the parking brake.

ADJUSTING THE SCREEN



1. Push the CAMERA button ①.
2. Touch the "Display Settings" key.
3. Select the setting items you wish to adjust by touching or by turning and pushing the TUNE·SCROLL dial ②.

Available setting items:

- Brightness
- Contrast
- Tint
- Colour/Color
- Black Level

The "Display Settings" key can also be shown by pushing the MENU button ③, touching the "Settings" key and then touching the "Camera" key.

How to turn on and off predictive course lines

1. Push the CAMERA button ①.
2. Touch the "Predictive Course Lines" key to turn on and off the predictive course lines.

The "Predictive Course Lines" key can also be shown by pushing the MENU button ③, touching the "Settings" key and then touching the "Camera" key.

REAR VIEW MONITOR SYSTEM LIMITATIONS

WARNING:

Listed below are the system limitations for the 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 rearview and outside mirrors.**
- **Use the displayed lines as a reference. The lines are highly affected by the number of occupants, fuel level, vehicle**

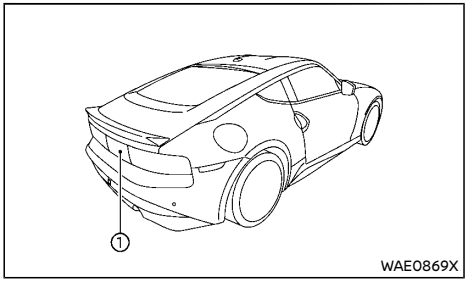
position, road conditions and road grade.

- **Make sure that the rear hatch 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 is directly coming 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 to the rear view monitor.
- If dirt, rain or snow accumulates on the camera, the rear view monitor may not display object 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.

SYSTEM MAINTENANCE



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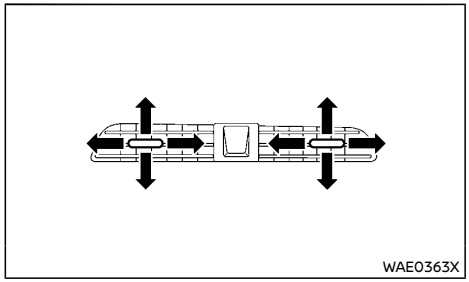
CAUTION:

- **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, the 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.

VENTILATORS

CENTER VENTILATORS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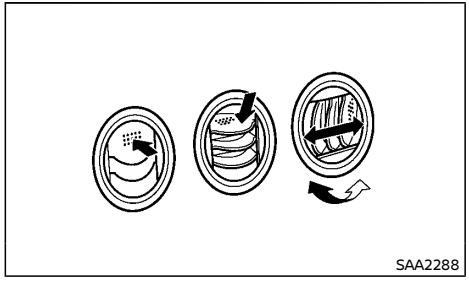
Open or close, and adjust the air flow direction of ventilators as illustrated.

SIDE VENTILATORS


SAA2288

Open or close, and adjust the air flow direction of ventilators as illustrated.

HEATER AND AIR CONDITIONER

WARNING:

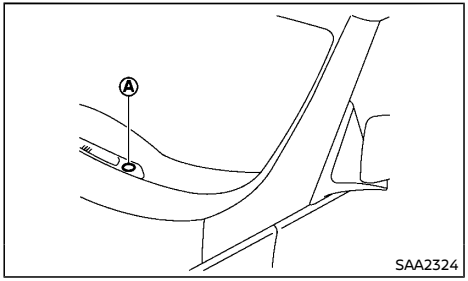
- **The heater and air conditioner operate only when the engine is running.**
- **Never leave children or adults who would normally require the support of others alone in the vehicle. Pets should not be left alone either. They could unknowingly activate switches or controls and inadvertently become involved 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.**

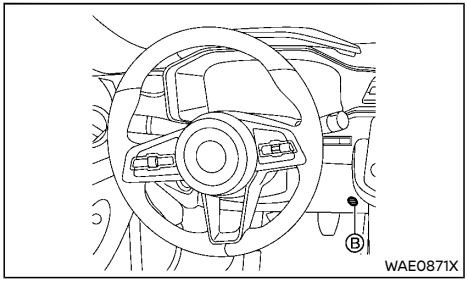
The heater and air conditioner operate when the engine is running. The air blower will operate even if the engine is turned off and the ignition switch is in the "ON" position.

NOTE:

- **Odors from inside and outside the vehicle can build up in the air conditioner unit. Odor can enter the passenger compartment through the vents.**
- **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.**

OPERATING TIPS





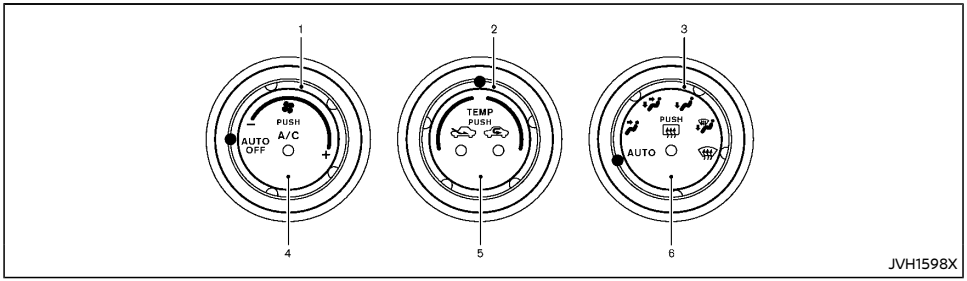
Left-Hand Drive (LHD) model*

When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate. However, this is not a malfunction. After the coolant temperature warms up, the air flow from the foot outlets will operate normally.

The sensors Ⓐ and Ⓑ located on the instrument panel help maintain a constant temperature. Do not put anything on or around the sensors.

*: The illustration is for the Left-Hand Drive (LHD) model. For the Right- Hand Drive (RHD) model, the layout will be the opposite.

AUTOMATIC AIR CONDITIONER



1. " " fan speed control dial
2. Temperature control dial
3. Air flow control dial
4. "A/C" air conditioner button
5. Air intake control button ("" outside air and "" air recirculation)
6. " " rear window defogger button (See "Defogger switch" (P.2-41).)

In your vehicle, the air conditioner system is designed to automatically activate the cooling function when operating the air flow control dial, the " " fan speed control dial or the "" " air intake control button. (The indicator light on the "A/C" button will illuminate.) Push the "A/C" button off when the cooling function is not necessary.

Automatic operation

Cooling and/or dehumidified heating (AUTO):

This mode may be used all year round. The system works automatically to control the inside temperature, air flow distribution and fan speed after the preferred temperature is set manually.

1. Turn the " " fan speed control dial and air flow control dial to the "AUTO" position. The air conditioner will automatically turn on. (The "A/C" button indicator light illuminates.)
2. Turn the temperature control dial to set the desired temperature.

   The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

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. When you need to heat only, use this mode.

1. Turn the " " fan speed control dial and air flow control dial to the "AUTO" position. (The air conditioner will turn on.)
2. Push the "A/C" button to turn off the air conditioner. (The "A/C" button indicator light will turn off.)
3. Turn the temperature control dial to set the desired temperature.

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
- Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
- Not recommended if windows fog up.

Dehumidified defrosting or defogging:

1. Turn the " " fan speed control dial to the desired position.
2. Turn the air flow control dial to the " " position.
3. Turn the temperature control dial to set the desired temperature.

- To quickly remove ice from the outside of the windows, turn the " " fan speed control dial to the maximum position.
- As soon as possible after the windshield is clean, turn the air flow control dial to the "AUTO" position to return to the auto mode.
- When the air flow control dial is turned to the " " or " " position, the air conditioner will automatically be turned on at outside temperatures above −5°C (23°F) to

defog the windshield, and the air recirculation mode will automatically be turned off.

Outside air is drawn into the passenger compartment to improve the defogging performance.

Manual operation

Fan speed control:

Turn the " " fan speed control dial clockwise (+) or counterclockwise (−) to manually control the fan speed.

Turn the dial to the "AUTO" position to return to automatic control of the fan speed.

Air intake control:

- Push the " " air intake control button to recirculate interior air inside the vehicle. The indicator light on the " " side will illuminate.

  — For Mexico:

  The air recirculation mode cannot be activated when the air conditioner is in the front defogging mode.
- Push the " " air intake control button to draw outside air into the passenger compartment. The indicator light on the " " side will illuminate.
- To switch to the automatic control mode, push the " " air intake control button for approximately 2 seconds. The indicator lights (both air recirculation and outside air circulation sides) will flash twice, and then the air intake will be controlled automatically.

Air flow control:

Turning the air flow control dial selects the air outlet to:

- : Air flows from center and side ventilators.
- : Air flows from center and side ventilators and foot outlets.
- : Air flows from foot outlets.*
- : Air flows from defogger and foot outlets.*
- : Air flows from defogger outlets.

*: Some air flows available from side ventilators.

To turn the system off

Turn the " " fan speed control dial to the "OFF" position.

SERVICING AIR CONDITIONER

The air conditioning system in your NISSAN is charged with a refrigerant designed with the environment in mind. **This refrigerant will not harm the earth's ozone layer.** However, special charging equipment and lubricant are required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioning system. (See "Air conditioner system refrigerant and lubricant" (P.9-4) for air conditioning system refrigerant and lubricant recommendations.)

Your NISSAN dealer will be able to service your environmentally friendly air conditioning system.

WARNING:

The 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.

Air conditioner filter

The air conditioning system is equipped with an air conditioner filter which collects dirt, dust, etc. To make sure the air conditioner heats, defogs and ventilates efficiently, replace the filter in according to the specified maintenance intervals listed in the separate maintenance booklet. To replace the filter, contact a NISSAN dealer.

The filter should be replaced if air flow is extremely decreased or when windows fog up easily when operating heater or air conditioning system.

ANTENNA

WINDOW ANTENNA

The antenna pattern is printed inside the rear window.

CAUTION:

- **Do not place metalized film near the rear window glass or attach any metal parts to it. This may cause poor reception or noise.**
- **When cleaning the inside of the rear window, be careful not to scratch or damage the rear window antenna. Lightly wipe along the antenna with a dampened soft cloth.**
- **Do not damage the antenna pattern with luggage.**

CAR PHONE AND CB RADIO

When installing a CB, ham radio or a car phone in your vehicle, be sure to observe the following cautions, otherwise the new equipment may adversely affect the Engine Control System and other electronic parts.

CAUTION:

- **Keep the antenna as far away as possible from the Electronic Control Module.**
- **Keep the antenna wire at least 20 cm (8 in) away from the Engine Control harnesses. Do not route the antenna wire next to any harnesses.**
- **Adjust the antenna standing wave ratio as recommended by the manufacturer.**
- **Connect the ground wire from the radio chassis to the body.**
- **For details, consult a NISSAN dealer.**

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BREAK-IN SCHEDULE

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.

- Do not drive at a constant speed, either fast or slow, for long periods of time.
- Do not run the engine over 4,000 rpm.
- Do not drive at a speed above 175km/h (109 MPH). (AT model) (for the Middle East)
- Do not accelerate at full throttle in any gear.
- Do not start quickly.
- Do not brake hard as much as possible.

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 (trailer coupling, 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 pushed to the "ON" position.
- Maintenance items in the "8. Maintenance and do-it-yourself" section should be checked periodically.

PRECAUTIONS WHEN STARTING AND DRIVING

WARNING:

- **Never 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 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 illness to people or animals.**
- **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.**

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 gases; they contain 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 any extended length of time.**
- **Keep the rear hatch closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the rear hatch open, follow these precautions:**
  - **— Open all the windows.**
  - **— Set the air recirculation to off and the fan control to high to circulate the air.**
- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  - **— The vehicle is raised for service.**
  - **— 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

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.**

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gas in the three-way catalyst is burned at high temperatures to help reduce pollutants.

CAUTION:

- **Do not use leaded gasoline. (See "Recommended fluids/lubricants and capacities" (P.9-2).) Deposits from leaded gasoline seriously reduce the ability of the three-way catalyst to help reduce exhaust pollutants and/or damage the three-way catalyst.**
- **Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems may cause overrich fuel to 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 promptly by a NISSAN dealer.**
- **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.**

TURBOCHARGER SYSTEM

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)

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 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) 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 also appears on 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 appears each time the ignition switch is placed in the ON position as long as the low tire pressure warning light remains illuminated.

  The "Low Tyre Pressure" warning does not appear if the 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.
- You can also check the tire pressure of all tires except the spare tire (if equipped) in the vehicle information display.
- 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 (model with TPMS reset function). Adjust the tire pressure to the recommended COLD tire pressure again when the tires are cold, and reset the TPMS.

WARNING:

- **After adjusting the tire pressure, be sure to reset the TPMS (model with TPMS reset function). Unless the resetting is performed, the TPMS will not warn of the low tire pressure.**
- **If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen**

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. 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 with the 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 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 (for models equipped with the emergency tire puncture repair kit). It is recommended you visit a NISSAN dealer as soon as possible after using tire repair sealant.**

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 an electronic device (such as a computer or drive recorder), a DC/AC converter or a smart phone, tablet or other electronic device charger are 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.

TPMS with tire inflation indicator (for The Middle East and Mexico)

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 (for Automatic Transmission model) or the shift lever to the N (Neutral) position (for Manual Transmission model).
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.

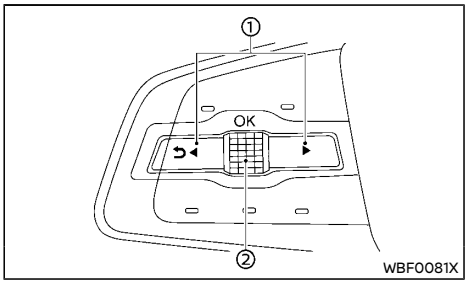
TPMS resetting (model with TPMS reset function)

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

Perform the following procedures to reset the TPMS.

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and place the shift position in the “P” (Park) position (Automatic Transmission model) or “N” (Neutral) position (Manual Transmission model).
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. Start the engine.



5. Push the ◀ ▶ button ① until "Settings" appears.
6. Use the scroll dial ② until “Tyre Pressures” is selected, and push the scroll dial.
7. Use the scroll dial until “TPMS Reset” is selected, and push the scroll dial.
8. Use the scroll dial until "Yes" is selected, and push the scroll dial to reset the TPMS.
9. After resetting the TPMS, drive the vehicle 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.2-14).

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

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.) The steering wheel will lock and could cause the driver to lose control of the vehicle. This could result in serious vehicle damage or personal injury.

Before operating the push-button ignition switch, be sure to push the park button to shift to the "P" (Park) position (Automatic Transmission model) or move the shift lever to the "N" (Neutral) position (Manual Transmission model).

INTELLIGENT KEY SYSTEM

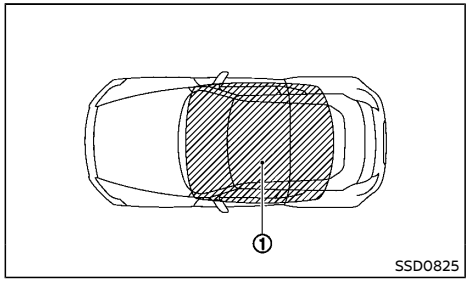
The Intelligent Key system can operate the ignition switch without taking the key out from your pocket or bag. The operating environment and/or conditions may affect the Intelligent Key system operation.

Some indicators and warnings for operation are displayed on the vehicle information display. (See "Vehicle information display (except sports mode display)" (P.2-18).)

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.**
- **If the vehicle battery is discharged, the ignition switch cannot be switched from the "LOCK" position, and if the steering lock (if equipped) is engaged, the steering wheel cannot be moved. Charge the battery as soon as possible. (See "Jump starting" (P.6-11).)**

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 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 area is not included in the operating range of the engine start function.
- If the Intelligent Key is placed on the instrument panel, rear parcel shelf, inside the glove box, door pocket or the corner of the interior compartment, 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.

Automatic Transmission (AT) model

The ignition lock is designed so that the ignition switch cannot be switched to the "LOCK" position until the shift position is in the "P" (Park) position. When pushing the ignition switch to the "OFF" position, make sure the shift position is in the "P" (Park) position.

When the ignition switch cannot be switched to the "LOCK" position:

1. Push the park button to shift to the "P" (Park) position.
2. Push the ignition switch to the "OFF" position.
3. Open the door. The ignition switch will change to the LOCK position.

For warnings and indicators on the vehicle information display, see "Vehicle information display (except sports mode display)" (P.2-18).

If the ignition switch is switched to the "LOCK" position, the shift position cannot be shifted from the "P" (Park) position. The shift position can be moved if the ignition switch is in the "ON" position with the foot brake depressed.

STEERING LOCK (if equipped)

To lock steering wheel

1. Push the ignition switch to the "OFF" position.
2. Open or close the door. The ignition switch turns to the "LOCK" position.
3. Turn the steering wheel 1/8 of a turn to the right or left from the straight up position.

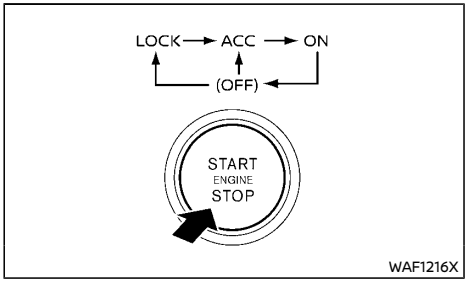
To unlock steering wheel

Push the ignition switch, and the steering wheel will be automatically unlocked.

CAUTION:

- **If the battery of the vehicle is discharged, the push-button ignition switch cannot be switched from the "LOCK" position.**
- **If the steering lock release malfunction indicator appears on the vehicle information display, push the ignition switch again while rotating the steering wheel slightly to the right and left. (See "Vehicle information display (except sports mode display)" (P.2-18).)**

IGNITION SWITCH POSITIONS



When the ignition switch is pushed without depressing the brake pedal (Automatic Transmission model) or the clutch pedal (Manual Transmission model), the ignition switch position will change as follows:

- Push center once to change to "ACC".
- Push center two times to change to "ON".
- Push center three times to change to "OFF".
- Push center four times to return to "ACC".
- Open or close any door to return to "LOCK" from the "OFF" position.

LOCK position

The ignition switch and steering lock (if equipped) can only be locked at this position.

The ignition switch will be unlocked when it is pushed to the "ACC" position while carrying the Intelligent Key.

ACC position

The electrical accessory power activates at this position without the engine turned on.

ON position

The ignition system and the electrical accessory power activate at this position without the engine turned on.

OFF position

The engine is turned off in this position.

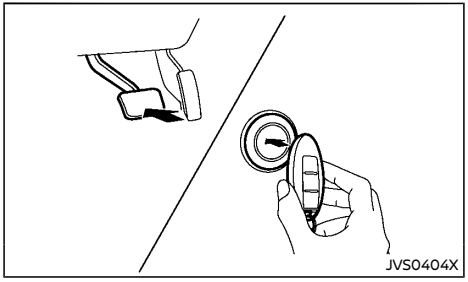
WARNING:

For models with a steering wheel lock mechanism: Never push the ignition switch to 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 "ACC" or "ON" position and the engine is not running. This can discharge the battery.

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 (for Automatic Transmission model) or the shift lever to the N (Neutral) position (for Manual Transmission model).
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 "ACC".

NOTE:

- **When the ignition switch is pushed to the "ACC" or "ON" position or the engine is started by the above procedures, the Intelligent Key battery discharge indicator appears in the vehicle information display even if the Intelligent Key is inside the vehicle. This is not a malfunction. To turn off the Intelligent Key battery discharge indicator, touch the ignition switch with the Intelligent Key again.**
- **If the Intelligent Key battery discharge indicator appears in the vehicle information display, replace the battery as soon as possible. (See "Intelligent Key battery" (P.8-17).)**

1. Apply the parking brake.
2. **Automatic Transmission (AT) model:**

   Confirm that the vehicle is in the "P" (Park) position.

   The Intelligent Key must be carried when operating the ignition switch.

   Manual Transmission (MT) model:

   Move the shift lever to the "N" (Neutral) position. Depress the clutch pedal fully to the floor.

   The starter is designed not to operate unless the clutch pedal is fully depressed.

   The Intelligent Key must be carried when operating the ignition switch.
3. Push the ignition switch to the "ON" position. Firmly depress the brake pedal (AT model) or the clutch pedal (MT model) 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 (AT model) or clutch pedal (MT model) with the ignition switch in any position.
4. Immediately release the ignition switch when the engine starts. If the engine starts, but fails to run, repeat the above procedures.

   If the engine is very hard to start in extremely cold or hot weather, depress the accelerator pedal and hold it. Push the ignition switch for up to 15 seconds while holding. Release the accelerator pedal when the engine starts.

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.**

5. Allow the engine to idle for at least 30 seconds after starting the engine to warm-up. Drive at moderate speeds for a short distance first, especially in cold weather.

CAUTION:

Do not leave the vehicle unattended while the engine is warming up.

6. To stop the engine, push the park button to shift to the "P" (Park) position (AT model) or move the shift lever to the "N" (Neutral) position (MT model), apply the parking brake and push the ignition switch to the "OFF" position.

DRIVING WITH AUTOMATIC TRANSMISSION (AT)

The Automatic Transmission (AT) 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.

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 vehicle

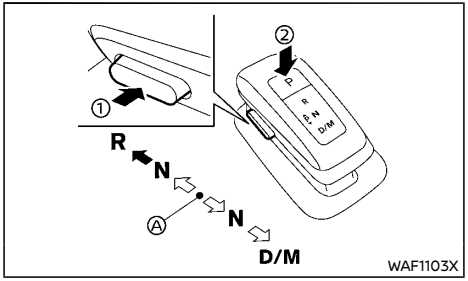
1. After starting the engine, fully depress the foot brake pedal before attempting to move the shift position out of the "P" (Park) position. **This AT is designed so that the foot brake pedal must be depressed before shifting from "P" (Park) to any driving position while the engine is running. The shift position cannot be placed out of the "P" (Park) position and into any of the other positions if the engine is not running.**
2. Keep the foot brake pedal depressed and move the shift position into a driving position.
3. Release the parking brake, the foot brake pedal, and then gradually start the vehicle in motion.

CAUTION:

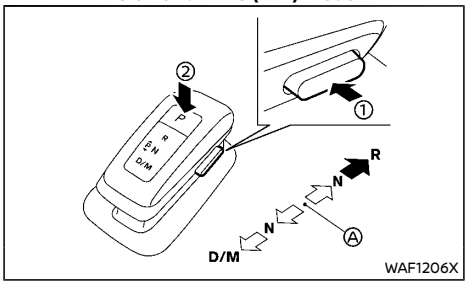
- **DEPRESS THE FOOT BRAKE PEDAL - Shifting the shift lever to "D", "R" or manual shift mode without depressing the foot brake pedal causes the vehicle to move slowly when the engine is running. Make sure the foot brake pedal is depressed fully and the vehicle is stopped before shifting the shift lever.**

- **MAKE SURE OF THE SHIFT LEVER POSITION – Make sure the shift lever is in the desired position. "D" and manual shift mode are used to move forward and "R" 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



Right-Hand Drive (RHD) model

Ⓐ Home position (central position)

To move the shift lever,

➡: Push the button ① to shift.

⇨: Shift without pushing the button ①.

Push the park button ② to shift to the "P" (Park) position.

After starting the engine, fully depress the brake pedal, push the shift lever button ① and move the shift lever from the "P" (Park) position ② to any of the desired shift positions.

Confirm that the vehicle is in the desired shift position by checking the shift indicator located on the shift lever or on the vehicle information display.

WARNING:

Apply the 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 when 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 parking brake. When parking on a hill, first depress the brake pedal, apply the 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 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" (Neutral) position unless the Neutral hold mode is engaged.

CAUTION:

To avoid AT 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.

To select this position from P (Park) or D (Drive): without pushing the shift lever button, push the shift lever forward (1 notch) and hold for approximately 0.5 seconds.

To select this position from P (Park) or R (Reverse): without pushing the shift lever button, pull the shift lever backward (1 notch) and hold for approximately 0.5 seconds.

D (Drive):

Use this position for all normal forward driving. The AT 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.**

When using this position, the shift range is displayed on the transmission position indicator in the meter.

Shift ranges up or down one by one as follows:

$D_1 \underset{\leftarrow}{\overset{\rightarrow}{}} D_2 \underset{\leftarrow}{\overset{\rightarrow}{}} D_3 \underset{\leftarrow}{\overset{\rightarrow}{}} D_4 \underset{\leftarrow}{\overset{\rightarrow}{}} D_5$

$\underset{\leftarrow}{\overset{\rightarrow}{}} D_6 \underset{\leftarrow}{\overset{\rightarrow}{}} D_7 \underset{\leftarrow}{\overset{\rightarrow}{}} D_8 \underset{\leftarrow}{\overset{\rightarrow}{}} D_9$

Neutral hold mode function

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 (when car washing) even if the ignition switch is in the OFF position. When using this function, release the 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.**
- **Do not use this function for a purpose other than car washing.**
- **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 parking brake.
3. Depress and hold the brake pedal.
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.

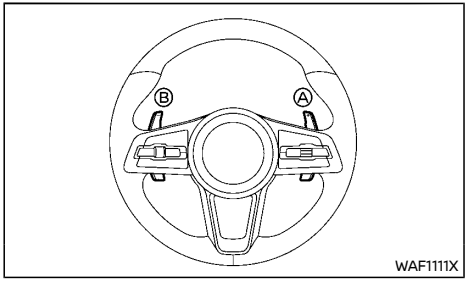
6. Slide the shift lever to the "N" (Neutral) position again, and hold it for approximately 0.5 seconds, until the Neutral Hold Mode activated indicator appears in the vehicle information display. (See "44. Neutral Hold Mode activated indicator (Automatic Transmission models)" (P.2-30).)
7. Place the 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 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 "43. Neutral Hold Mode guidance indicator (Automatic Transmission models)" (P.2-30).)**
- **If the Neutral hold mode is unavailable, a message will appear in the vehicle information display. (See "45. Neutral Hold Mode was not activated indicator (Automatic Transmission models)" (P.2-30).) 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 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 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 normal driving mode.

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 → ← 2 → ← 3 → ← 4 → ← 5

→ ← 6 → ← 7 → ← 8 → ← 9

9 (9th), 8 (8th), 7 (7th) and 6 (6th):

Use this position for all normal forward driving at highway speeds.

5 (5th):

Use this position when driving up long slopes, or for engine braking when driving down long slopes.

4 (4th), 3 (3rd) and 2 (2nd):

Use these positions for hill climbing or engine braking on downhill grades.

1 (1st):

Use this position when climbing steep hills slowly or driving slowly through deep snow, or for maximum engine braking on steep downhill grades.

Precautions:

- Remember not to drive at high speeds for extended periods of time in lower than 7th gear. This reduces fuel economy.
- Moving the shift lever to the same side 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 or may automatically shift to the other gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.**

- **When the transmission does not shift to the selected gear, the Transmission position indicator will blink and the buzzer will sound.**
- **In the manual shift mode, the transmission automatically shifts down to 1st gear before the vehicle comes to a stop. When accelerating again, it is necessary to shift up to the desired range.**

Accelerator downshift - in D (Drive) position -

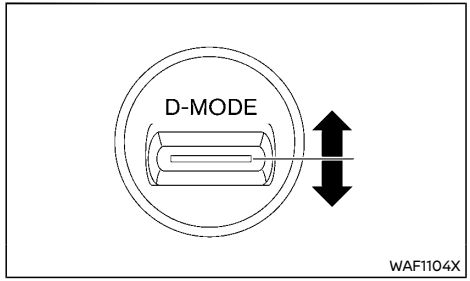
For passing or climbing hills, depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

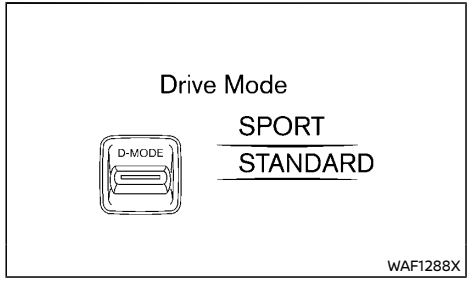
Fail-safe

When the fail-safe operation occurs, the AT will be locked in any of the forward gears depending on conditions.

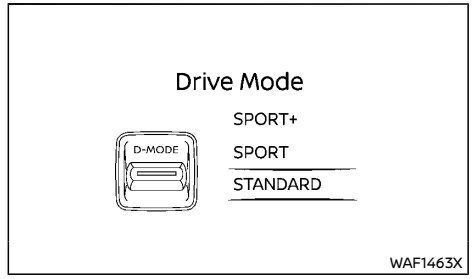
If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case, push the ignition switch to the "OFF" position and wait for 3 seconds. Then push the ignition switch back to the "ON" position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have a NISSAN dealer check the transmission and repair it if necessary.

Drive Mode Selector





Except for NISMO models



NISMO models

Multiple driving modes can be selected by using the Drive Mode Selector.

Except for NISMO models:

SPORT and STANDARD

For NISMO models:

SPORT+, SPORT and STANDARD

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 4 seconds after the mode is selected. (The mode list can be turned off by pushing the scroll dial on the steering-wheel mounted controls.)

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.

WARNING:

Do not stare at the Drive Mode Selector or the display while driving so that full attention may be given to vehicle operation.

STANDARD mode:

This is the standard mode that is most suitable for normal driving.

This mode will be selected first each time the ignition switch is placed in the ON position.

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.
- Changes the setting of VDC (Vehicle Dynamic Control) for a more sporty driving experience.

SPORT+ mode (for NISMO models):

In addition to the characteristics of the SPORT mode, this mode heightens adjusting the engine and transmission points for a higher response.

More steering effort is needed while the vehicle is turning than the SPORT mode. Because of this, you can feel a higher steering response from the ground.

WARNING:

- **Vehicle handling and performance may be adversely affected when using the SPORT mode or the SPORT+ mode (for NISMO models). To avoid injury or death, select the Drive Mode Selector the STANDARD mode if noticeable loss of steering control occurs.**
- **VDC operation is reduced when the Drive Mode Selector is used to select the SPORT mode or the SPORT+ mode (for NISMO models). The VDC system may not operate in the same circumstances when compared to operation in the STANDARD mode. To help prevent accidents drive carefully, avoid careless or dangerous driving techniques and be especially careful when driving and cornering on slippery surfaces.**

NOTE:

In the SPORT mode or the SPORT+ mode (for NISMO models), fuel economy may be reduced.

If the gear is shifted or the accelerator pedal is quickly operated when the Drive Mode Selector is used to select the SPORT mode or the SPORT + mode and the engine warmed up, a sound effect is output to enhance the sense of sportiness. (for NISMO models) (See "Active sound enhancement" (P.5-82).)

DRIVING WITH MANUAL TRANSMISSION (MT)

WARNING:

- **Do not downshift abruptly on slippery roads. This may cause a loss of vehicle control.**
- **Do not over-rev the engine when shifting to a lower gear. This may cause a loss of vehicle control or engine damage.**

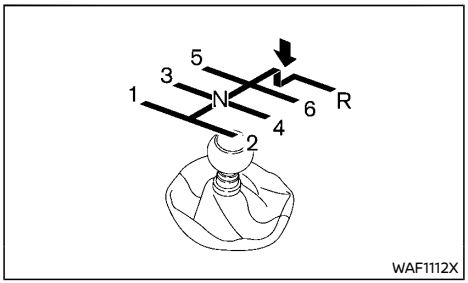
CAUTION:

- **Do not rest your foot on the clutch pedal while driving. This may damage the clutch system.**
- **Fully depress the clutch pedal before shifting to help prevent transmission damage.**
- **Stop the vehicle completely before shifting into the "R" (Reverse) position.**
- **When the vehicle is stopped for a period of time, for example waiting at stoplights, shift to the "N" (Neutral) position and release the clutch pedal with the foot brake pedal depressed.**

Starting vehicle

1. After starting the engine, depress the clutch pedal to the floor and move the shift lever to the "1" (1st) or "R" (Reverse) position.
2. Slowly depress the accelerator pedal, releasing the clutch pedal and parking brake at the same time.

Shifting gear



WAF1112X

To change gears, or when upshifting or downshifting, fully depress the clutch pedal, shift into the appropriate gear, then slowly and smoothly release the clutch pedal.

Start the vehicle in the “1” (1st) position and shift to the “2” (2nd), “3” (3rd), “4” (4th), “5” (5th) and “6” (6th) position in sequence according to the vehicle speed.

If it is difficult to move the shift lever into the “R” (Reverse) or “1” (1st) position, shift to the “N” (Neutral) position, and then release the clutch pedal once. Fully depress the clutch pedal again and shift into “R” (Reverse) or “1” (1st).

- To back up, stop the vehicle and move the shift lever into the “N” (Neutral) position, and then push the shift knob downward to move the shift lever into the “R” (Reverse) position.
- The shift knob returns to its original position when the shift lever is moved to the “N” (Neutral) position.

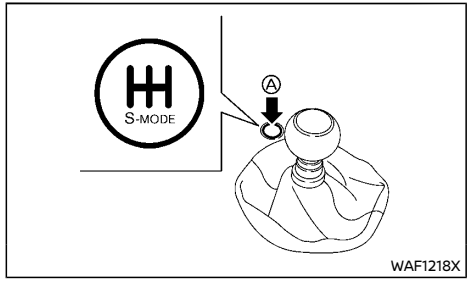
SynchroRev Match mode (S-MODE)

The SynchroRev Match mode (S-MODE) automatically adjusts the engine speed to match the selecting gear ratio while changing gears.

Precautions:

- Shift lever and clutch pedal operations are not different than a conventional manual transmission.
- Fully depress the clutch pedal. Insufficient pedal depression may cause slow response of this system.
- When the clutch pedal is depressed with the gear still engaged, the engine speed is kept at the proper level for the engaged gear. Thus, the engine speed may be kept high depending on the gear position and vehicle speed.
- When the clutch pedal is depressed with the transmission in neutral, the system operates for approximately 2 seconds, and then the engine speed will decrease to the idle speed.
- When the engine coolant temperature is low right after starting the engine, engine speed synchronization will be delayed or may be insufficient.
- The system controls the engine speed up to the rev limit. Note that S-MODE is not a function that prevents over-revving resulting from shifting mistakes.
- The system does not operate while the vehicle is backing up.
- If the engine speed is limited lower than usual when the engine oil temperature is extremely high, the system will control up to the limited engine speed.

Activating the system:



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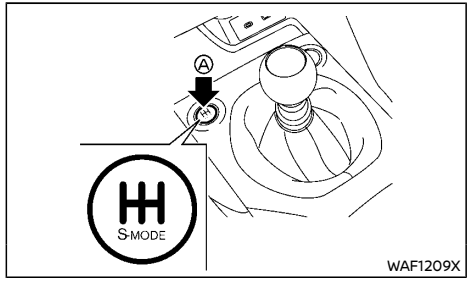
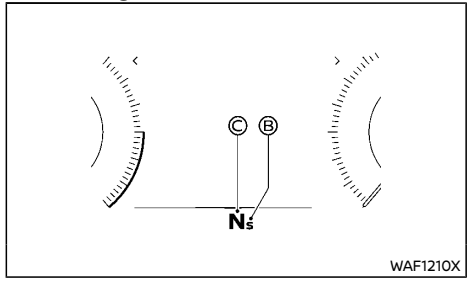
Left-Hand Drive (LHD) model



WAF1209X

Right-Hand Drive (RHD) model



WAF1210X

To activate the S-MODE, push the S-MODE switch Ⓐ. The S-MODE indicator Ⓑ on the vehicle information display will show "S". To deactivate, push and hold the S-MODE switch for more than 1 second. The S-MODE indicator will turn off.

While the S-MODE is off, you can drive the vehicle as a conventional Manual Transmission model.

Note that the status of the S-MODE (on or off) is memorized even after the ignition switch is turned off; however, it will be initialized (off) when the battery is disconnected. Even if the S-MODE switch is turned on and the S-MODE function may not operate, but manual transmission will operate normally and driving can be continued. Have the system checked. It is recommended you visit a NISSAN dealer for this service.

The transmission position indicator Ⓒ shows the selected gear: N (Neutral), 1, 2, 3, 4, 5, 6, R (Reverse).

SynchroRev Match mode (S-MODE) operation:

The SynchroRev Match mode (S-MODE) automatically adjusts the engine speed by controlling the engine throttle. The accelerator pedal does not have to be depressed.

The system detects the clutch pedal and shift lever operations, and then calculates the target engine speed using the shifting gear position and the vehicle speed information.

The system provides accurate engine speed control that helps achieve quick gear shifting and reduces shift shock on clutch engagement.

- **When downshifting:**
  The engine speed is automatically increased to the target engine speed before the clutch is engaged.
- **When upshifting:**
  The engine speed is automatically kept after the engine speed lowers to the target engine speed.
  Rapid clutch engagement before the engine speed lowers to the target engine speed may cause shift shock.
- **When depressing the clutch pedal with the gear engaged:**
  The engine speed is automatically kept at the proper engine speed for the engaged gear.
  This function will not operate when low (1st) gear is selected.
  There is a delay between the clutch pedal operation and the S-MODE operation. Make sure the engine speed is adjusted before engaging the clutch again.

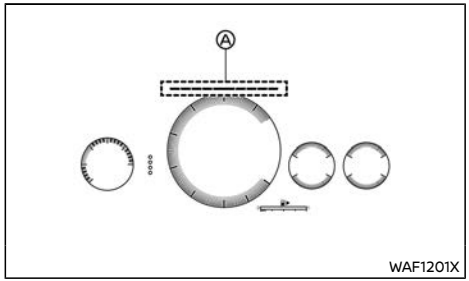
Suggested maximum speed in each gear

Downshift to a lower gear if the engine is not running smoothly, or if you need to accelerate.

Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions which will ensure safe operation. Do not overrev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

	km/h (MPH)
1st	59 (37)
2nd	96 (60)
3rd	137 (85)
4th	175 (109)
5th & 6th	— (—)

UPSHIFT INDICATOR



The upshift indicator Ⓐ is displayed in the sports mode display and shows the driver the timing to shift into a higher gear by illuminating. The use of the upshift indicator Ⓐ will help you to upshift at a constant engine speed from any gear.

The upshift indicator can be customized. The options are shown in the following table. (See "vehicle information display" (P.2-10).)

Mode	Indication color	Conditions
Customization	Green	Illuminates about 1,800 to 2,400 rpm before the set engine speed.
	Yellow	Illuminates about 600 to 1,200 rpm before the set engine speed.
	Red (illuminate)	Illuminates when the engine speed reaches the set engine speed.
Auto	Green	The engine speed that illuminates is set automatically according to each gear position.
	Yellow	
	Red (illuminate)	
	Red (flash)	Flashes when the engine speed reaches near the maximum engine speed.
OFF	No color	Indicator is off at all times.

It is notified that the shift-up timing is imminent when two segments of yellow indicators illuminate. Please shift into the higher gear at the latest when the upshift indicator illuminates in red. If the upshift indicator flashes in red, the fuel supply will be restricted to protect the engine.

LAUNCH CONTROL

This function enables the driver to start acceleration from a stop by:

- Selecting the SPORT mode with the Drive Mode Selector (except for NISMO models)
- Selecting the SPORT+ mode with the Drive Mode Selector (for NISMO models)
- Pushing the SynchroRev Match mode (S-MODE) switch (for Manual transmission models)

WARNING:

- **Failure to follow the warnings and instruction for the use of this feature may cause a loss of vehicle control or a collision which may lead to serious personal injury or death.**
- **Make sure to drive carefully within legal limits.**
- **Only use this function when you can guarantee that it is safe to do so, based on the surrounding traffic conditions.**
- **Do not use this function on slippery or wet roads. This may cause loss of vehicle control and could result in an accident.**
- **The launch control function has been developed not only for controlling the engine and VDC system, but also the settings of the tires. Therefore, any modification of the vehicle may disrupt the vehicle's balance. This will not only reduce the optimum performance of the vehicle but may also cause damage to powertrain components, including the transmission.**

NOTE:

- **When the temperature of the engine coolant and transmission oil is high or low, the function cannot be used. The temperature range in which the launch control function can be used:**
  - **Engine coolant: 60°C - 100°C (140°F - 212°F)**
  - **Automatic Transmission fluid: 60°C - 100°C (140°F - 212°F)**
- **The performance of start may vary depending on the amount of wheel spin, or increase and decrease of the engine output in response to the outside temperature.**
- **For safety reasons, VDC control may activate automatically when the potential tire performance cannot be exhibited and/or driving on a slippery road surface, such as a wet road, in order to apply the brakes or limit the engine output.**
- **Frequent use of the launch control function increases the load on the powertrain related parts such as the clutch (Manual Transmission models) and transmission compared to normal driving. In particular, the clutch will wear out more quickly.**

HOW TO USE LAUNCH CONTROL FUNCTION

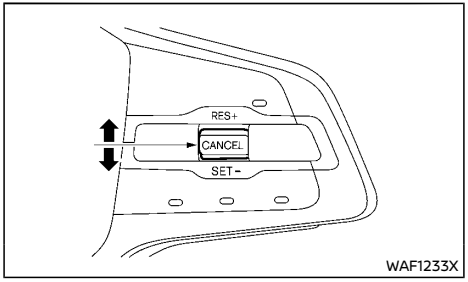
Automatic Transmission model

1. Select the SPORT mode (except for NISMO models) or the SPORT+ mode (for NISMO models) with the drive mode selector.
2. Move the shift lever to the D (Drive) position.
3. Depress the brake pedal firmly with your left foot and keep depressing the brake pedal.
4. Depress the accelerator pedal quickly to the floor with your right foot while pulling the right-side and left-side paddle shifter at the same time.

   If the wheel spin occurs due to the weak depressing force on the brake pedal, the pedal misapplication prevention control system activates from the safety reason.
5. The message "Launch Control" will appear in the vehicle information display.

   If the message "Launch Control" appears, release the both sides of paddle shifters. If you start the vehicle with the paddle shifter pulled, the shift mode will transfer to manual shift from Launch control.
6. Within 6 seconds after depressing the accelerator pedal, release the brake pedal.

Manual Transmission model



1. To activate the S-MODE, push the S-MODE switch.
2. Fully depress the clutch pedal with your left foot.
3. Move the shift lever into 1st gear.
4. Depress the accelerator pedal quickly to the floor with your right foot.
5. The message "Launch Control" will appear in the vehicle information display.

   The engine speed can be changed by 500 rpm operating the CANCEL switch to the RES+ direction or SET- direction on the steering wheel up and down within 6 seconds.

   Initial revolution: 3000 rpm

   Setting range: 3000 to 5000 rpm

   The setting engine speed is memorized even after the ignition switch is placed in the OFF position.
6. Within 6 seconds after depressing the accelerator pedal, start the vehicle with the clutch engaged quickly.
7. When starting the vehicle, operate clutch pedal and shift lever with the accelerator pedal depressed.

   If the accelerator pedal is released, the launch control function will be ended.

WARNING:

- **The VDC 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 system may not operate properly. This could adversely affect vehicle handling performance, and the VDC warning light may illuminate.**
- **If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the VDC warning light may illuminate.**
- **If engine control related parts are not NISSAN recommended or are extremely deteriorated, the VDC warning light may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the VDC warning 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 VDC warning 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 system may not operate properly and the VDC warning light may illuminate.**
- **The VDC system is not a substitute for winter tires or tire chains on a snow covered road.**

The Vehicle Dynamic Control (VDC) system uses various sensors to monitor driver inputs and vehicle motion. In the VDC system, the Traction mode can be selected by using the VDC OFF switch (for NISMO models). Under certain driving conditions, the VDC 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 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 system operates, the VDC warning 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 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 system is working properly.
- Adjust your speed and driving to the road conditions.

If a malfunction occurs in the system, the VDC warning light illuminates in the instrument panel. The VDC system automatically turns off.

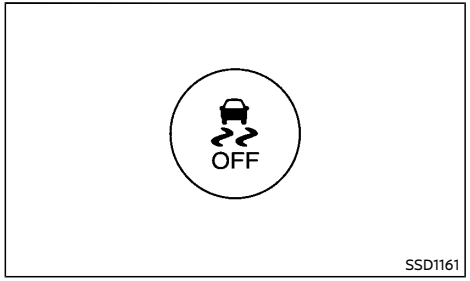
The VDC OFF switch is used to turn off the VDC system. The VDC off indicator light illuminates to indicate the VDC system is off. When the VDC OFF switch is used to turn off the system, the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The VDC warning light flashes if this occurs. All other VDC functions are off and the VDC warning light will not flash. The VDC system is automatically reset to on when the ignition switch is placed in the "OFF" position then back to the "ON" position.

See "Vehicle Dynamic Control (VDC) warning light" (P.2-16) and "Vehicle Dynamic Control (VDC) off indicator light" (P.2-17).

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.

VDC operation is reduced when the Drive Mode Selector is used to select the SPORT mode (if equipped) or the SPORT+ mode (for NISMO models). The VDC system may not operate in the same circumstances when compared to operation in the standard mode. To help prevent accidents drive carefully, avoid careless or dangerous driving techniques and be especially careful when driving and cornering on slippery surfaces. For safe driving operation, push the VDC OFF switch and turn on the VDC system as soon as possible.

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM OFF SWITCH



The vehicle should be driven with the Vehicle Dynamic Control (VDC) system ON for most driving conditions.

When the vehicle is stuck in mud or snow, the VDC 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 system off or select the Traction mode (for NISMO models).

Except for NISMO models:

To turn off the VDC system, push and hold the VDC OFF switch. The indicator light will illuminate.

For NISMO models:

To turn on the Traction mode and turn off the VDC system, perform the following steps:

1. Push and hold the VDC OFF switch. The Traction mode will be selected. The OFF indicator light and the Traction Mode indicator will illuminate. (See "54. Traction Mode indicator (NISMO models)" (P.2-31).)
2. Push and hold the VDC OFF switch again. The VDC system will be turned off. The OFF indicator light will remain on. The Traction Mode indicator will go off.

Push the VDC OFF switch again or restart the engine to turn on the system. (See "Vehicle Dynamic Control (VDC)system" (P.5-21).)

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.

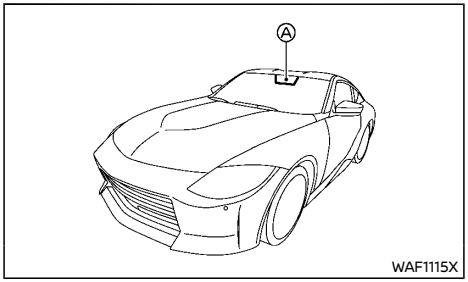
The hill start assist system will operate automatically under the following conditions:

- 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 "N" or on a flat and level road.

TRAFFIC SIGN RECOGNITION (TSR) (if equipped)



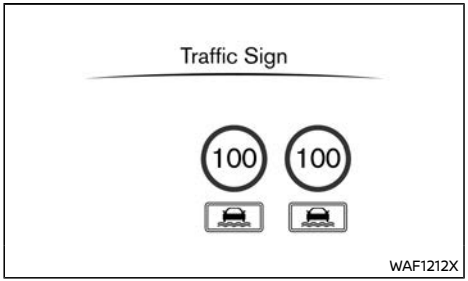
The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. The system captures the road sign information with the multi-sensing front camera unit Ⓐ located on the windshield in front of the inside rearview mirror and displays the detected signs in the vehicle information display.

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

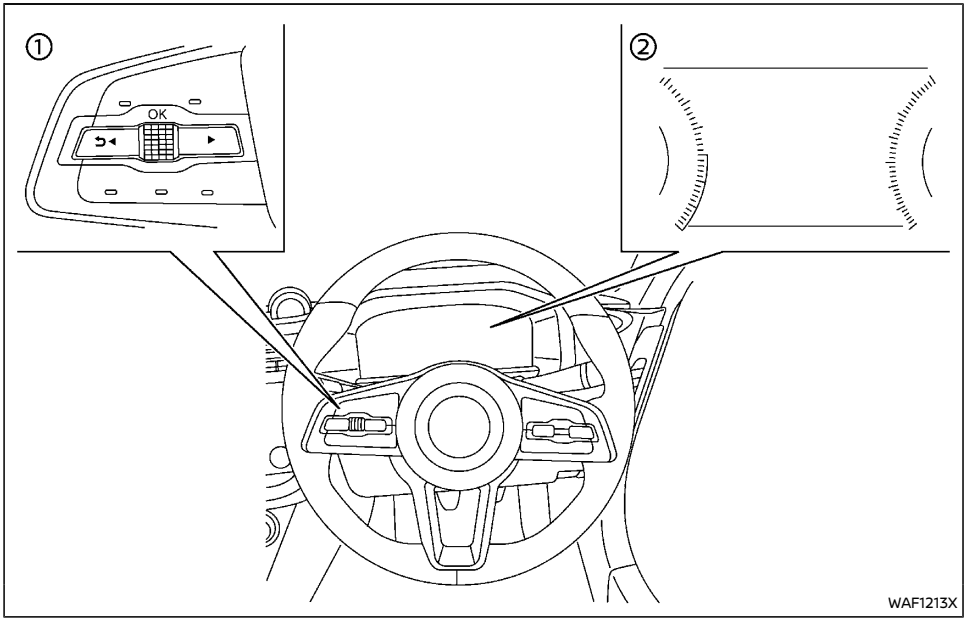
The TSR system displays the following types of road sign:



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 overtaking buses or trucks with speed stickers.**
- **The TSR system may display a traffic sign, 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 truck, advisory sign, different speed limit sign between daytime and nighttime, or speed limit sign written in different unit near the border, 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 "Speed Limit Sign" and push the scroll dial to turn the system on or off.

SYSTEM TEMPORARILY UNAVAILABLE

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.

SYSTEM MALFUNCTION

If the TSR system malfunctions it will be turned off automatically and the TSR "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

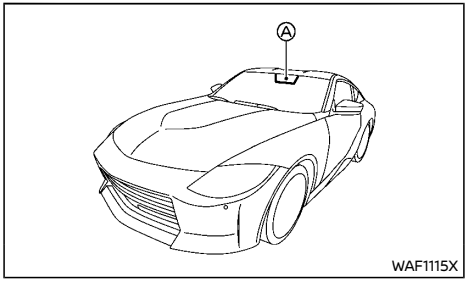
The TSR system uses the same multi-sensing front camera unit that is used by the Lane Departure Warning (LDW) system, located in front of the inside rearview mirror. For maintenance of the camera, see "System maintenance" (P.5-28).

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.

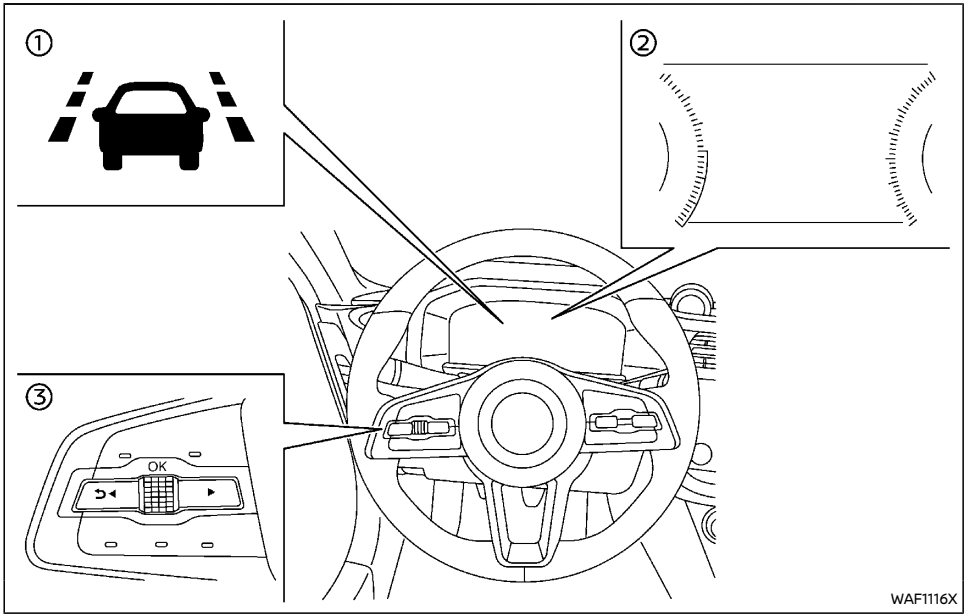
- **This system is only a warning device to inform the driver of a potential unintended lane departure. It will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.**



The LDW system will operate when the vehicle is driven at speeds of approximately 70 km/h (43 MPH) and above, and the lane markings are clearly visible on the road.

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 sound. (See "LDW system operation" (P.5-26).)



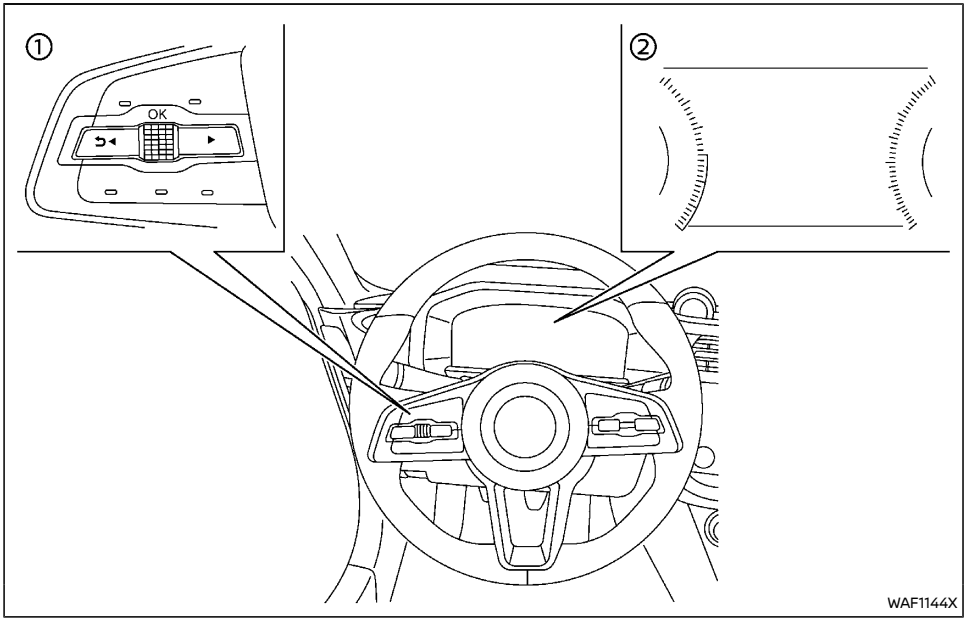
① LDW indicator (on the vehicle information display)
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

LDW SYSTEM OPERATION

The LDW system provides a lane departure warning function when the vehicle is driven at speeds of approximately 70 km/h (43 MPH) and above and the lane markings are clear. When the vehicle approaches either the left or the right side of the traveling lane, a chime will sound 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.

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:

The system will retain current settings in the vehicle information display even if the engine is restarted.

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 approximately 70 km/h (43 MPH) 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 spare tire, tire chains, non-standard wheels).**
  - **— When the vehicle is equipped with non-original brake parts or suspension parts.**
- **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.)

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, the LDW indicator will flash 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 and the LDW indicator will stop flashing.

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 approximately 70 km/h (43 MPH).

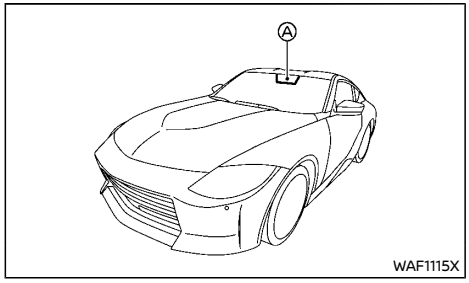
Action to take:

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, the LDW indicator will illuminate 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 recommended 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.

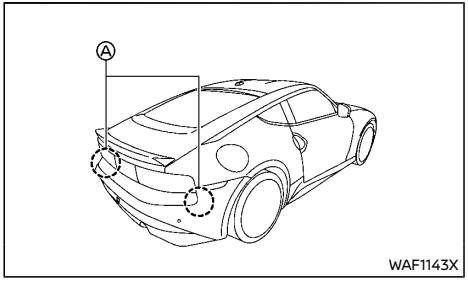
- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, it is recommended that you visit a NISSAN dealer.

WARNING:

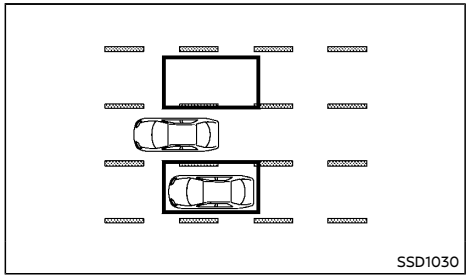
Failure to follow the warnings and instructions for proper use of the BSW system could result in serious injury or death.

- **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.

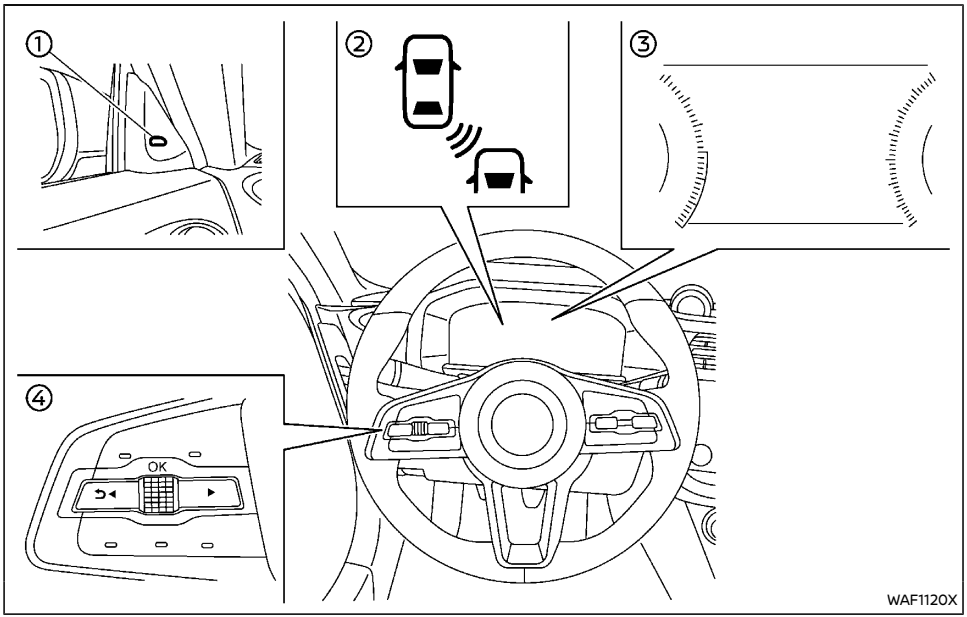


The BSW system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane.



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
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 ① illuminates.

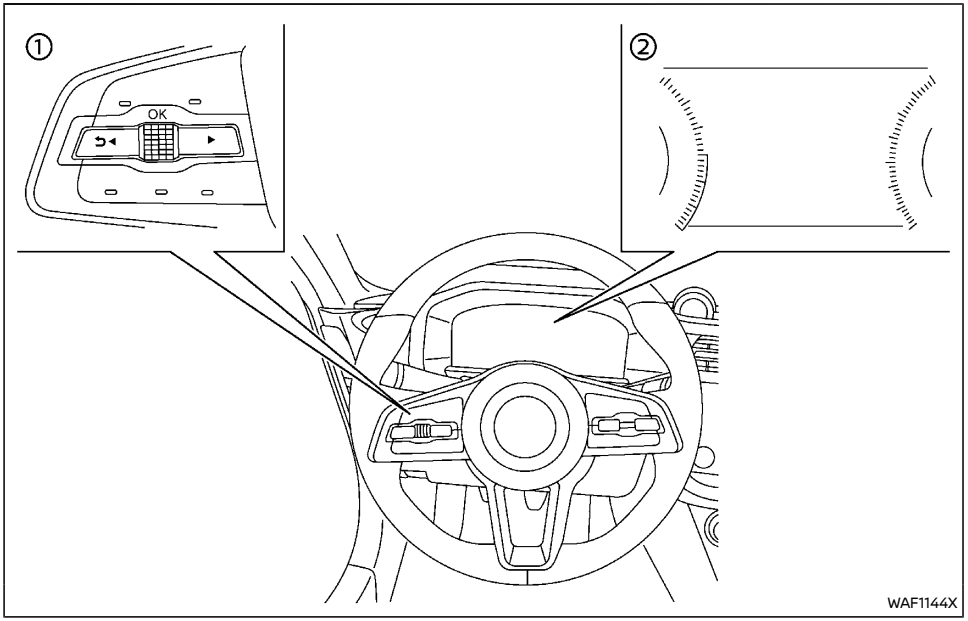
If the turn signal is then activated, the system chimes (twice), the side indicator light flashes, and the BSW indicator ② blinks (yellow) in the vehicle information display. The side indicator light and BSW indicator continues to flash until the detected vehicle leaves the detection zone.

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.

If a vehicle comes into the detection zone after the driver activates the turn signal, then the side indicator light and BSW indicator flashes and no chime sounds. For additional information, see "BSW driving situations" (P.5-32).

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.

Setting the side indicator light brightness

The brightness of the side indicator lights can be changed using the following steps:

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 "Indicator Brightness" and push the scroll dial.

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.**
- **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

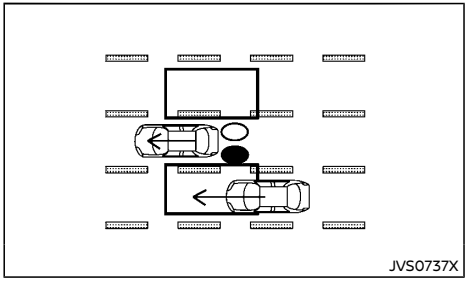


Illustration 1 – Approaching from behind

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

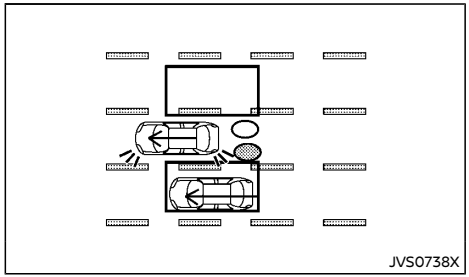


Illustration 2 – Approaching from behind

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.**
- **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.**

Overtaking another vehicle

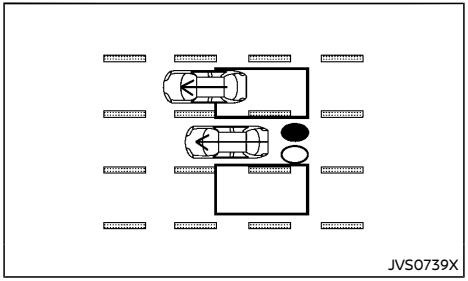


Illustration 3 – Overtaking another vehicle

Illustration 3: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 2 seconds.

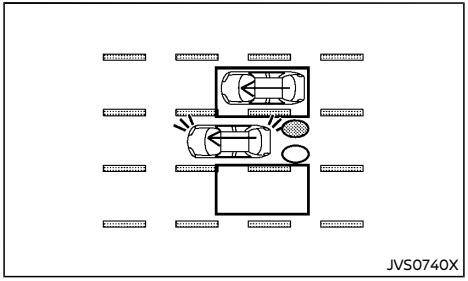


Illustration 4 – Overtaking another vehicle

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

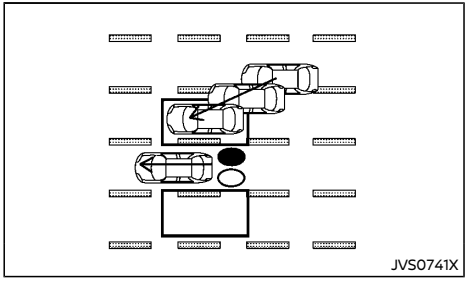


Illustration 5 – Entering from the side

Illustration 5: The side indicator light illuminates if a vehicle enters the detection zone from either side.

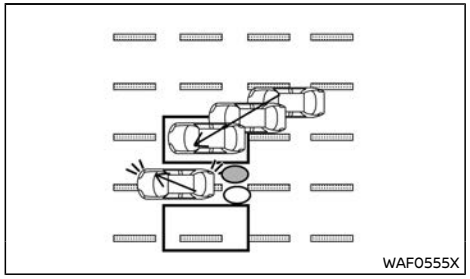


Illustration 6 – Entering from the side

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:

- **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.**
- **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, the BSW indicator will flash 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 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, the BSW indicator illuminates and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

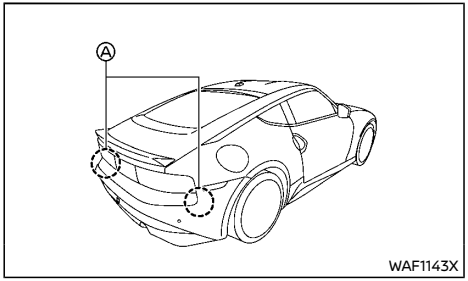
NOTE:

If the BSW system stops working, the 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.

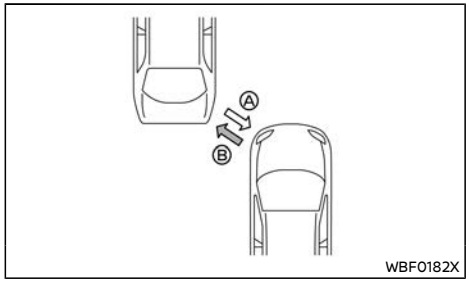
Do not strike or damage the area around the radar sensors.

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 cautious because the radar sensors are installed on the bumper.

Mechanism of the radar sensor:

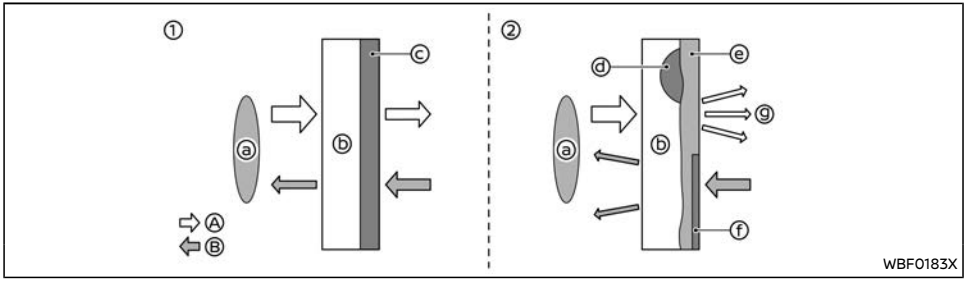


Ⓐ Radar signal

Ⓑ Reflected signal

The radar sensor detects objects by emitting a radar signal and then measuring its reflection.

Repairing the bumper:



① Normal condition (before the repair)
② Poor condition (after the improper repair)
Ⓐ Radar signal
Ⓑ Reflected signal
ⓐ Radar sensor
ⓑ Vehicle bumper
ⓒ Film layer
ⓓ Putty
ⓔ Touch-up layer
ⓕ Repaint
ⓖ Radar signal diffusion

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 weaken or prevented from functioning properly. This may cause the radar sensor not to detect objects correctly.

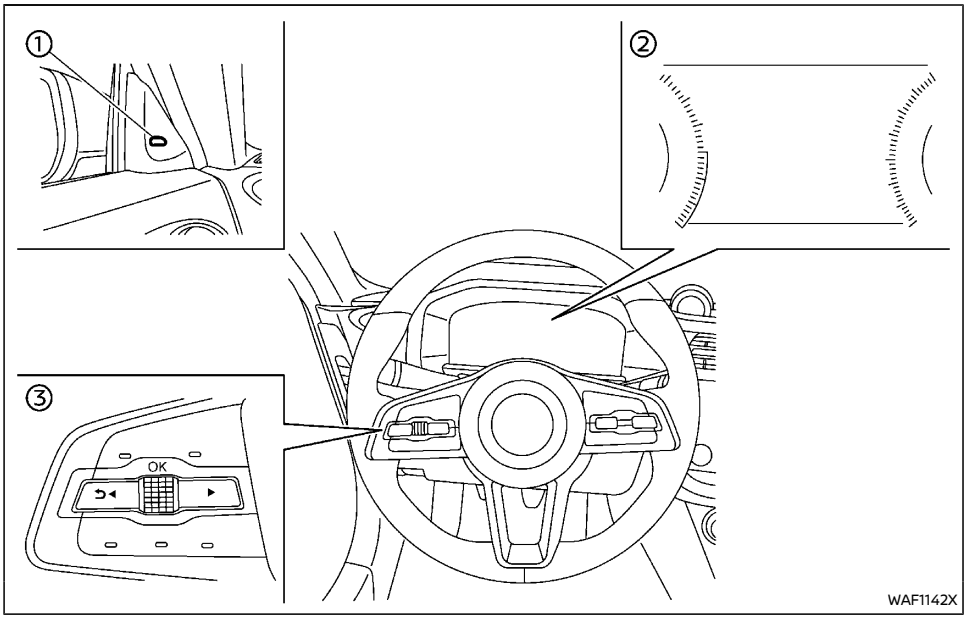
REAR CROSS TRAFFIC ALERT (RCTA) (if equipped)

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.



WAF1142X

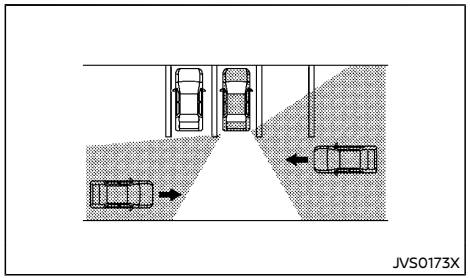
① Side indicator light
② Vehicle information display
③ Steering-wheel-mounted controls (left side)

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.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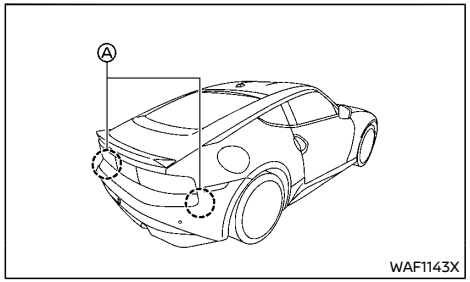
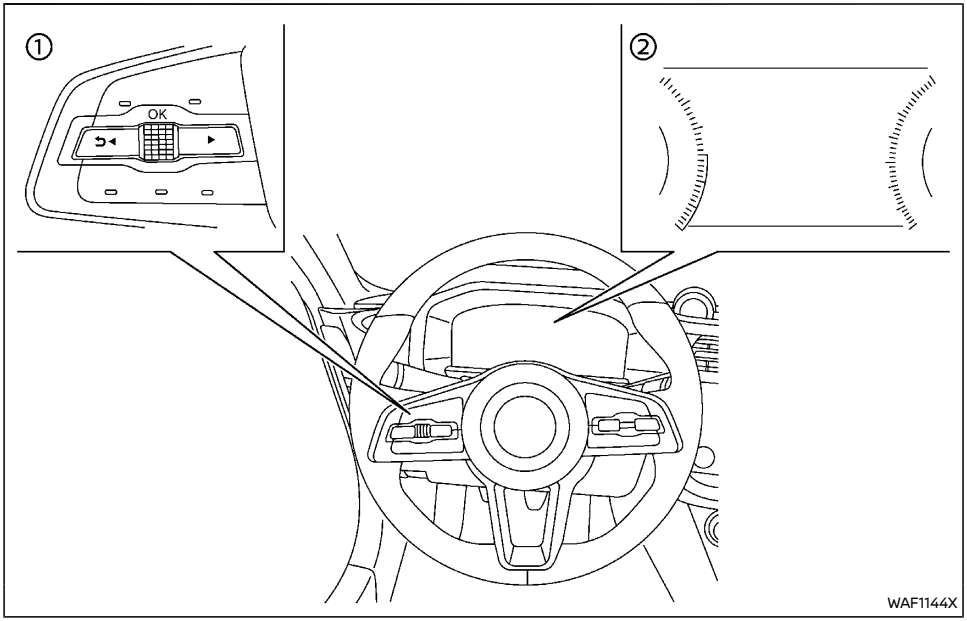


WAF1143X

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)

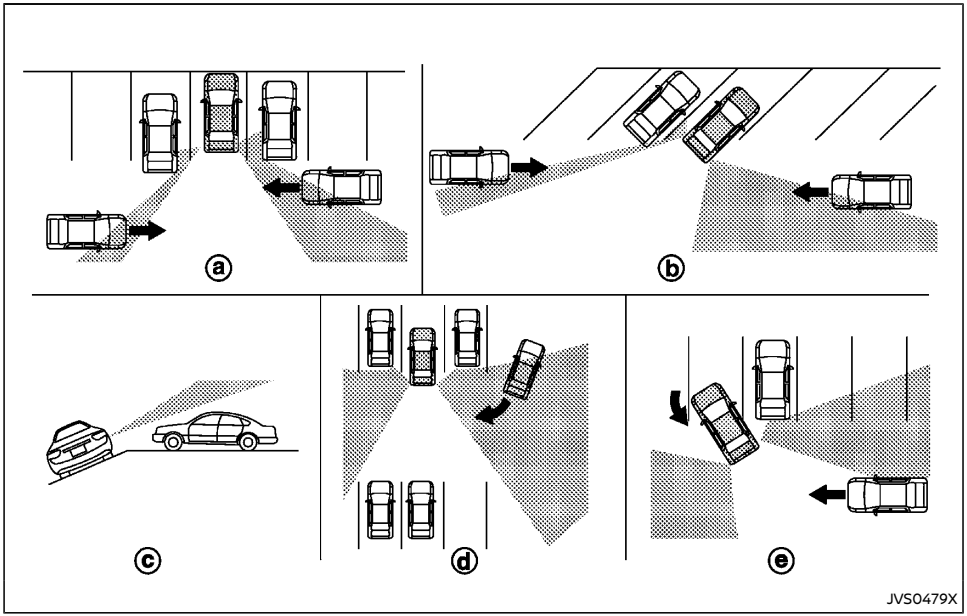
② Vehicle information display

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. Use the button to select "Rear Cross Traffic Alert" then push the scroll dial.
3. Use the scroll dial to enable or disable the system.

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**
- **Excessive noise (e.g. audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.**

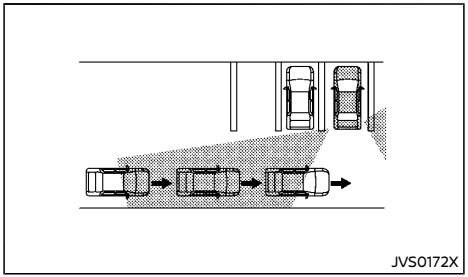

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Illustration 1

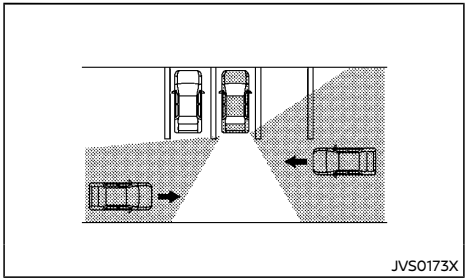
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Illustration 2

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 system 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.

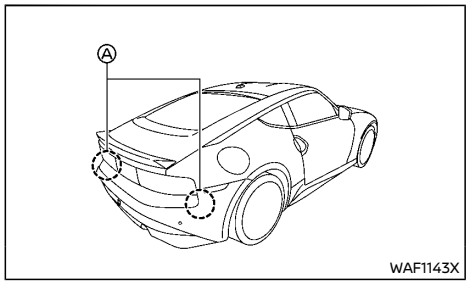
NOTE:

If the BSW system stops working, the RCTA 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 system checked. It is recommended that you visit a NISSAN dealer for this service.

SYSTEM MAINTENANCE



WAF1143X

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.

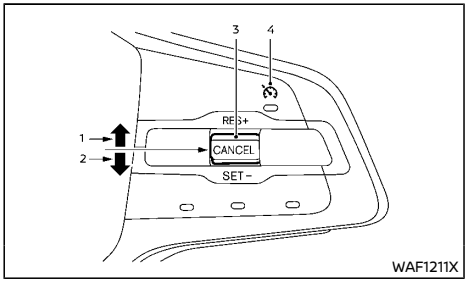
Check for and remove objects obstructing the area around the radar sensors.

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 cautious because the radar sensors are installed on the bumper. For more details, see "Precautions on repairing the bumper" (P.5-34).



1. RES+ operation
2. SET- operation
3. CANCEL switch
4. Cruise ON/OFF switch

WARNING:

- **Always observe the posted speed limits. 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**

CAUTION:

On Manual Transmission (MT) model, do not shift to the "N" (Neutral) position without depressing the clutch pedal when the cruise control is operated. Should this occur, depress the clutch pedal and turn the cruise control MAIN switch off immediately. Failure to do so may cause engine damage.

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, 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 the RES+ direction, pushing down the CANCEL switch to the SET- direction, 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) 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.

Moving the shift lever to the "N" (Neutral) position (Automatic Transmission models) or depressing the clutch pedal (Manual Transmission models) will cancel the cruise control.

Turning on cruise control

Push the Cruise ON/OFF switch. The cruise indicator in the vehicle information display will appear.

Setting cruising speed

1. Accelerate to the desired speed.
2. Push the CANCEL switch to the SET- direction down or RES+ direction up and release it.
3. Take your foot off the accelerator pedal.

The vehicle will maintain the set 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 and release the CANCEL switch to the SET- direction.
- Push down and hold the CANCEL switch to the SET- direction. When the vehicle reaches the desired speed, release the CANCEL switch.
- Quickly push down and release the CANCEL switch to the SET- direction. This will reduce the vehicle speed by about 1 km/h (0.6 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 and release the CANCEL switch to the SET- direction.
- Push up and hold the CANCEL switch to the RES+ direction. When the vehicle reaches the desired speed, release the CANCEL switch.
- Quickly push up and release the CANCEL switch to the RES+ direction. This will increase the vehicle speed by about 1 km/h (0.6 MPH).

Resuming at preset speed:

Push up and release the CANCEL switch to the RES+ direction.

The vehicle will resume the last set cruising speed when the vehicle speed is over 40 km/h (25 MPH).

Canceling cruising speed

Use any one of the following methods to cancel the vehicle set speed.

- 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) SYSTEM (if equipped)

The Intelligent Cruise Control (ICC) system maintains a selected distance from the vehicle in front of you within the following speeds up to the set speed.

- 0 to 144 km/h (0 to 90 MPH) (for Mexico, Australia and New Zealand)
- 0 to 180 km/h (0 to 112 MPH) (except for Mexico, Australia and New Zealand)

The set speed can be selected by the driver between the following speeds.

- 30 to 144 km/h (20 to 90 MPH) (for Mexico, Australia and New Zealand)
- 30 to 180 km/h (20 to 112 MPH) (except for Mexico, Australia and New Zealand)

The vehicle travels at a set speed when the road ahead is clear.

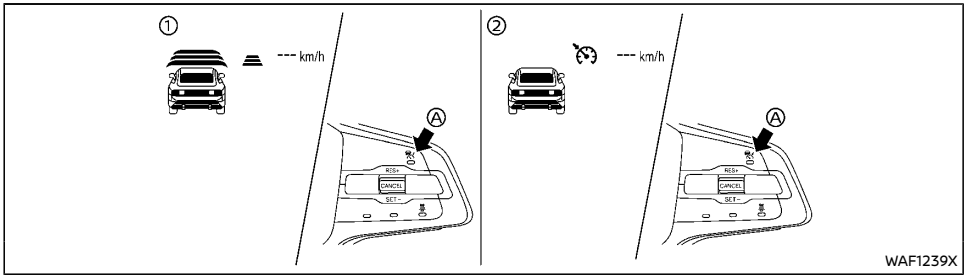
The ICC system can be set to one of two cruise control modes.

- 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.

WARNING:

- **Always drive carefully and attentively when using either cruise control mode. 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.**

- **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.**



① Vehicle-to-vehicle distance control mode
② Conventional (fixed speed) cruise control mode

Push the MAIN switch Ⓐ to choose the cruise control mode between the vehicle-to-vehicle distance control mode ① and the conventional (fixed speed) cruise control mode ②.

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch Ⓐ. To choose the conventional (fixed speed) cruise control mode ②, push and hold the MAIN switch Ⓐ for longer than approximately 1.5 seconds.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the MAIN switch once to turn the system off. Then push the MAIN switch again to turn the system back on and select the desired cruise control mode.

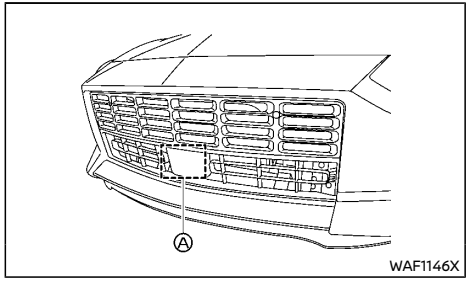
Always confirm the setting in the ICC system display.

For the vehicle-to-vehicle distance control mode, see the following description. For the conventional (fixed speed) cruise control mode, see “Conventional (fixed speed) cruise control mode” (P.5-52).

SELECTING VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch Ⓐ.

PRECAUTIONS ON VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE



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.

The detection range of the sensor is approximately 200 m (650 ft) ahead.

WARNING:

- **This 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.**
- **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, or on icy roads, in heavy rain or in fog.**

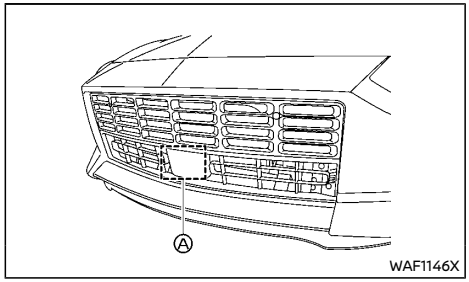
The radar sensor will not detect the following objects:

- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

WARNING:

- **As there is a performance limit to the distance control function, never rely solely on the Intelligent Cruise Control (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.**
- **If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges that the vehicle has come to a standstill and sound a warning chime. To prevent the vehicle from moving, the driver must depress the brake pedal.**
- **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**
- **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.**

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE OPERATION



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 Intelligent Cruise Control (ICC) system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.

The vehicle-to-vehicle distance control mode uses a sensor Ⓐ located behind the lower grille of the front bumper to detect vehicles traveling ahead. 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 cargo area of your vehicle

The ICC system is designed to automatically check the sensor's operation within the limitations of the system. When the sensor area of the front bumper is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor area 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 area regularly.

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, 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 will sound a warning chime and blink the system display to notify the driver to take necessary action.

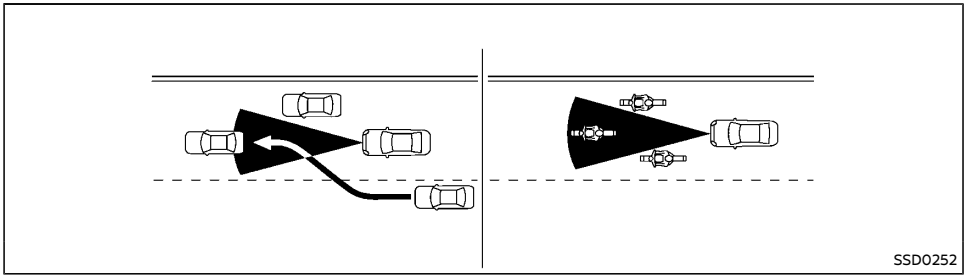
The system will cancel and a warning chime will sound if the speed is below approximately 24 km/h (15 MPH) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed.

See "Approach warning" (P.5-50).

The following items are controlled in the vehicle-to-vehicle distance control mode:

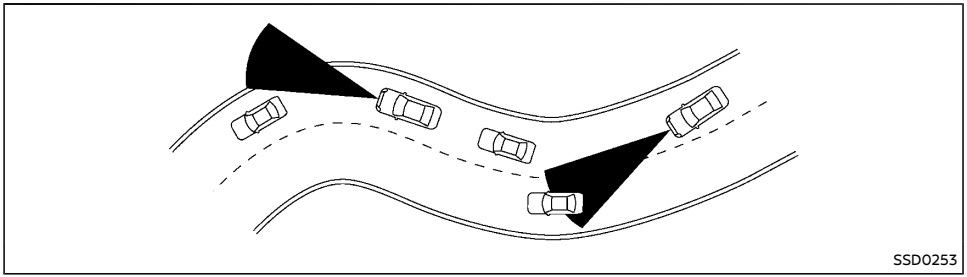
- When there are no vehicles traveling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is the following speed.
  - 30 and 144 km/h (20 and 90 MPH) (for Mexico, Australia and New Zealand)
  - 30 and 180 km/h (20 and 112 MPH) (except for Mexico, Australia and New Zealand)
- When there is a vehicle traveling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by the driver, from the vehicle ahead. The adjusting speed range is up to the set speed. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges a standstill with a warning chime.
- 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.


SSD0252

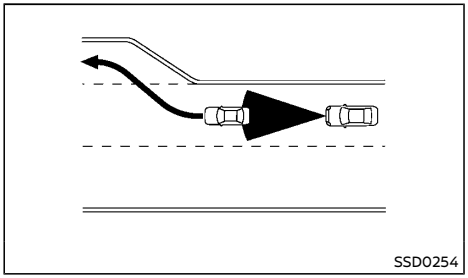
The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

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.

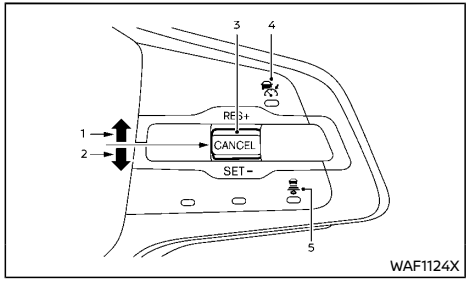
The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**


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.

ICC system switch



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The system is operated by a MAIN switch and four control switches, all mounted on the steering wheel.

1. RES+ operation:

   Resumes set speed or increases speed incrementally.
2. SET- operation:

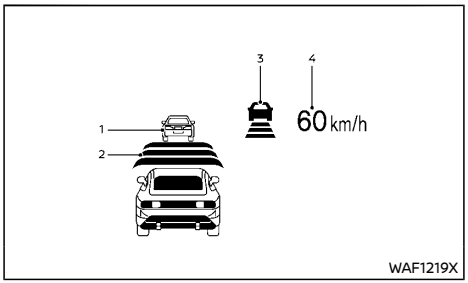
   Sets desired cruise speed, reduces speed incrementally.
3. CANCEL switch:

   Deactivates the system.
4. MAIN switch:

   Master switch to activate the system
5. DISTANCE switch:

   Changes the vehicle's following distance:
   - Long
   - Middle
   - Short

ICC system display and indicators



The display is located n the vehicle information display.

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 depending on a color.
   - Intelligent Cruise Control system ON indicator (gray):

     ICC standby.
   - Intelligent Cruise Control 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)
   - Intelligent Cruise Control system ON indicator (yellow):

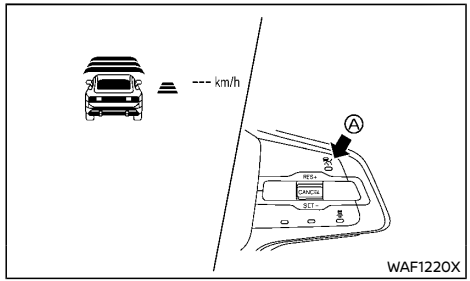
     Indicates that there is a malfunction in the ICC system.

4. Set vehicle speed indicator:

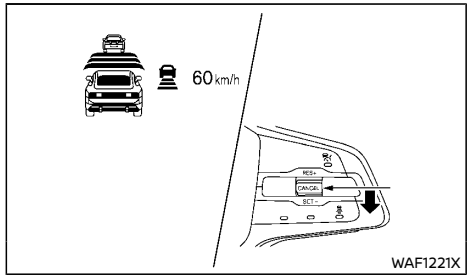
   Indicates the set vehicle speed.
   - Green: ICC active
   - Gray: ICC standby

   The speed unit can be converted between “km/h” and “MPH”.

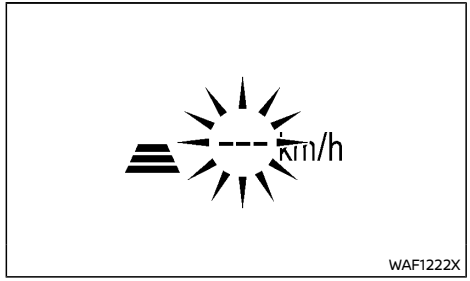
Operating vehicle-to-vehicle distance control mode



To turn on the cruise control, quickly push and release the MAIN switch Ⓐ on. The Intelligent Cruise Control (ICC) system ON indicator (gray), set distance indicator and set vehicle speed indicator come on and in a standby state for setting.



To set cruising speed, accelerate your vehicle to the desired speed, push down the CANCEL switch to the SET- direction and release it. (The ICC system set 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- direction under the following conditions, the system cannot be set. 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) or manual shift mode (Automatic Transmission models)
- When the shift lever is in the N (Neutral) position (Manual Transmission models)
- When the parking brake is applied
- When the brakes are operated by the driver

When the CANCEL switch is pushed to SET- direction under the following conditions, the system cannot be set.

The "Currently Not Available" warning message or "Unavailable Slippery Road" warning message appears in the vehicle information display.

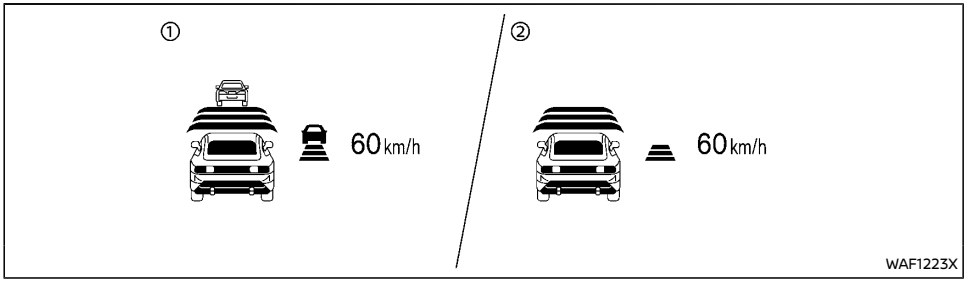
- When the Vehicle Dynamic Control (VDC) system is off or the Traction mode is on (for NISMO models) (To use the ICC system, turn on the VDC system. Push the MAIN switch to turn off the ICC system and reset the ICC system by pushing the MAIN switch again.)

  For details about the VDC system, see "Vehicle Dynamic Control (VDC)system" (P.5-21).
- When ABS or VDC system (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.)

The "Temporary disabled Radar blocked See owner's Manual" warning message appears in the vehicle information display.

- When the radar sensor area of the front bumper is covered with dirt or is obstructed

System operation



① System set display with vehicle ahead
② System set display without vehicle ahead

WARNING:

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.

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:

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.

The stop lights 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.

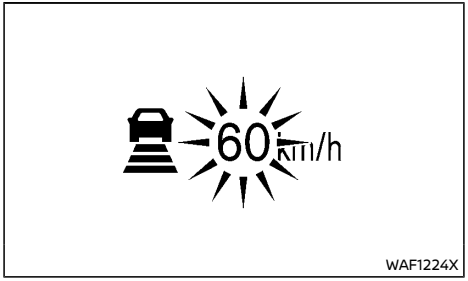
Vehicle ahead not detected:

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 traveling under approximately 24 km/h (15 MPH), the system will be canceled.



WAF1224X

When passing another vehicle, the set speed indicator will flash when the vehicle speed exceeds the set speed. The vehicle ahead detection 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 change set vehicle speed

To cancel the preset speed, use any of the following methods:

- Push the CANCEL switch. The set vehicle speed indicator and the cruise indicator will turn grey.
- Tap the brake pedal. The set vehicle speed indicator and the cruise indicator will turn grey.
- Turn the MAIN switch off. Both the Intelligent Cruise Control system set indicator (green) and set vehicle speed indicator will turn off.

To reset at a faster cruising speed, use one of the following methods:

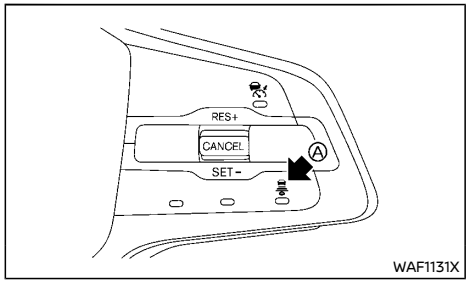
- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the CANCEL switch to the SET- direction.
- Push and hold the CANCEL switch to the RES+ direction. The set vehicle speed will increase by approximately 5 km/h or 5 MPH.
- Push, then quickly release the CANCEL switch to the RES+ direction. Each time you do this, the set speed will increase by approximately 1 km/h or 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 the CANCEL switch to the SET- direction and release it.
- Push and hold the CANCEL switch to the SET- direction. The set vehicle speed will decrease by approximately 5 km/h or 5 MPH.
- Push, then quickly release the CANCEL switch to the SET- direction. Each time you do this, the set speed will decrease by approximately 1 km/h or 1 MPH.

To resume the preset speed, push and release the CANCEL switch to the RES+ direction. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH).

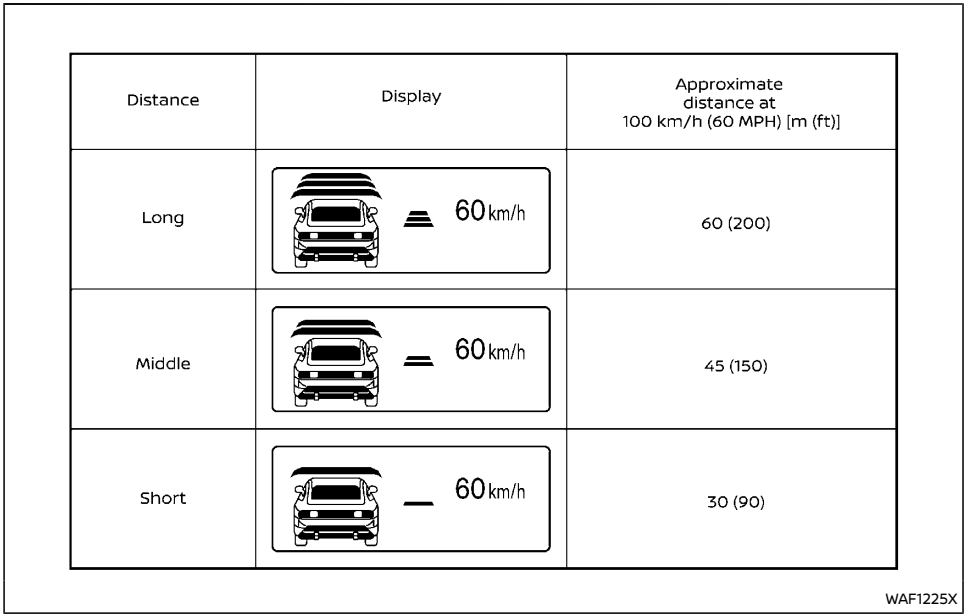
How to change set distance to vehicle ahead



WAF1131X

The distance to the vehicle ahead can be selected at any time of the ICC Standby or the ICC is active depending on the traffic conditions.

Each time the DISTANCE switch Ⓐ is pushed, the set distance will change to long, middle, short and back to long again in that sequence.



- 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 blink.

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).

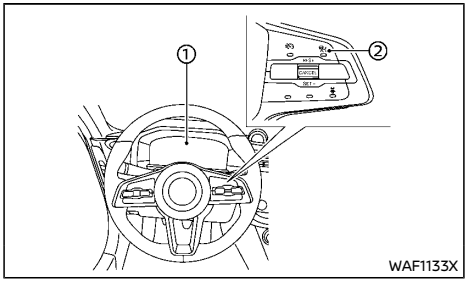
Automatic cancellation

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 24 km/h (15 MPH)

- When the system judges the vehicle is at standstill
- When the shift lever is not in the "D" (Drive) position or Manual shift mode (Automatic Transmission models)
- When the shift lever is in the "N" (Neutral) position (Manual Transmission models)
- When the parking brake is applied
- When the VDC system is turned off
- When the Traction mode is selected (NISMO models)
- When ABS or VDC (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
- When the clutch pedal is depressed

Warning and display



① Vehicle information display
② MAIN switch

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 vehicle speed fails below approximately 30 km/h (20 MPH)
- When the parking brake is applied
- When the clutch pedal is depressed (Manual Transmission models)
- When the transmission is not in the D (drive) or manual shift mode (Automatic Transmission models)
- When the shift lever is in the N (Neutral) position (Manual Transmission models)
- When the radar sensor area of the front bumper is covered with dirt or is obstructed

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

Condition B:

Under the following conditions, the ICC system is automatically canceled. The chime will sound and the "Currently Not Available" warning message will appear in the vehicle information display.

- When the VDC is turned off
- When the Traction mode is selected (NISMO models)

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

Condition C:

Under the following conditions, the chime will sound and the "Unavailable Slippery Road" warning message will appear in the vehicle information display.

- When the ABS or VDC (including the traction control system) operates
- When a tire slips

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

Condition D:

The chime will sound and the "Temporary disabled Radar blocked See owner's Manual" warning message will appear in the vehicle information display.

- When the radar sensor area is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead, the ICC system is automatically canceled.

Action to take:

If the warning message appears, park the vehicle in a safe place and turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area and restart the engine. If the "Temporary disabled Radar blocked See owner's Manual" 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 illuminate the ICC system warning (yellow), display the "Temporary disabled Radar blocked See owner's Manual" message and sound the chime.

Action to take:

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

Condition E:

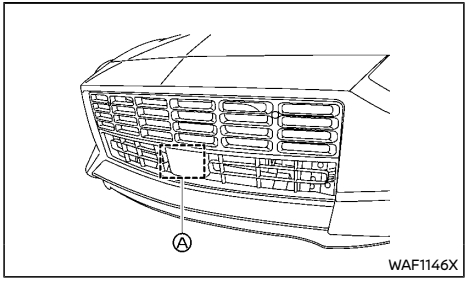
When the ICC system is not operating properly, the chime sounds and the ICC system warning (orange) will appear and the "System fault See Owner's Manual" warning message will appear in the vehicle information display.

Action to take:

If the warning appears, stop the vehicle in a safe place and place the shift position in the P (Park) position (Automatic Transmission models) or the shift lever in the N (Neutral) position (Manual Transmission models). 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. It is recommended you visit a NISSAN dealer for this service.

Sensor maintenance



The sensor for the ICC system Ⓐ is located behind the lower grille of the front bumper.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area of the front bumper 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. Before customizing or restoring the front bumper, contact a NISSAN dealer.

CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

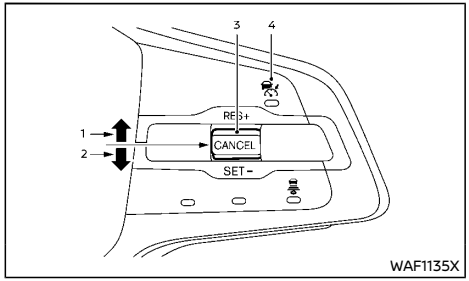
This mode allows driving at speeds:

- between approximately 40 to 144 km/h (25 to 90 MPH) without keeping your foot on the accelerator pedal (except for the Middle East and Philippines).
- between approximately 40 to 180 km/h (25 to 112 MPH) without keeping your foot on the accelerator pedal (for the Middle East and Philippines).

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 Intelligent Cruise Control (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 switch



1. RES+ operation:

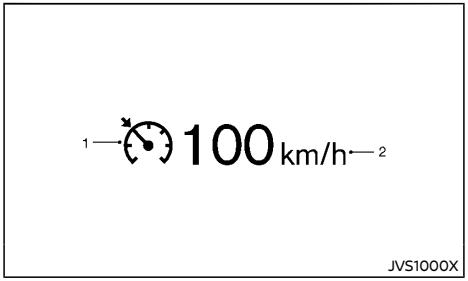
   Resumes set speed or increases speed incrementally.
2. SET- operation:

   Sets the desired cruise speed, reduces

speed incrementally.

3. CANCEL switch:
   Deactivates the system.
4. MAIN switch:
   Master switch to activate the system.

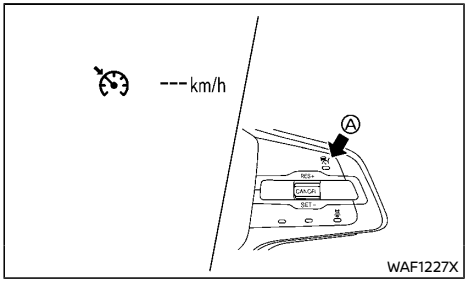
Conventional (fixed speed) cruise control mode display and indicators



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 (white):
     Indicates that the MAIN switch is ON.
   - Cruise control set indicator (green):
     Displays while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.
   - Cruise control system warning (orange):
     Indicates that there is a malfunction in the ICC system.
2. Set vehicle speed indicator:
   This indicator indicates the set vehicle speed.

Operating conventional (fixed speed) cruise control mode



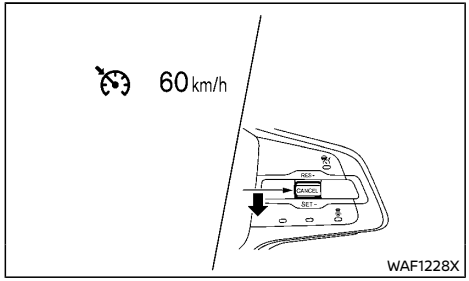
To turn on the conventional (fixed speed) cruise control mode, push and hold the MAIN switch Ⓐ for longer than about 1.5 seconds.

When pushing the MAIN switch on, the set vehicle speed indicator is displayed in the vehicle information display. After you hold the MAIN switch on for longer than about 1.5 seconds, the cruise indicator appears. You can now set your desired cruising speed. Pushing the MAIN 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 MAIN switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

CAUTION:

To avoid accidentally engaging cruise control, make sure to turn the MAIN switch off when not using the ICC system.



To set cruising speed, accelerate your vehicle to the desired speed, push the CANCEL switch to the SET- direction and release it. (The color of the cruise indicator changes to green and set vehicle 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 speed, use one of the following methods:

- Push the CANCEL switch. The vehicle speed indicator will turn grey.
- Tap the brake pedal. The vehicle speed indicator will turn grey.

- Turn the MAIN switch off. Both the cruise indicator and vehicle speed indicator will turn off.

To reset at a faster cruising speed, use one of the following methods:

1. Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the CANCEL switch to the SET- direction.
2. Push and hold the CANCEL switch to the RES+ direction. When the vehicle attains the speed you desire, release the switch.
3. Push, then quickly release the CANCEL switch to the RES+ direction. Each time you do this, the set speed will increase by about 1 km/h (1 MPH).

To reset at a slower cruising speed, use one of the following methods:

1. Lightly tap the brake pedal. When the vehicle attains the desired speed, push the CANCEL switch to the SET- direction and release it.
2. Push and hold the CANCEL switch to the SET- direction. Release the switch when the vehicle slows down to the desired speed.
3. Push, then quickly release the CANCEL switch to the SET- direction. Each time you do this, the set speed will decrease by about 1 km/h (1 MPH).

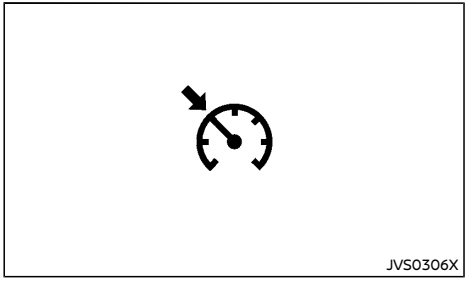
To resume the preset speed, push and release the CANCEL switch to the RES+ direction. The vehicle will resume the last set cruising speed when the vehicle speed is over 40 km/h (25 MPH).

Automatic cancellation

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle slows down more than 13 km/h (8 MPH) below the set speed
- When the shift lever is not in the "D" (Drive) or manual shift mode (Automatic Transmission models)
- When the shift lever is in the "N" (Neutral) position (Manual Transmission models)
- When the parking brake is applied
- When the VDC system is turned off
- When the Traction mode is selected (NISMO models)
- When the VDC system (including the traction control system) operates
- When a wheel slips
- When the clutch pedal is depressed

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 orange.

Action to take:

If the color of the cruise indicator changes to orange, stop the vehicle in a safe place and place the shift position in the "P" (Park) position (Automatic Transmission models) or the shift lever in the "N" (Neutral) position (Manual Transmission models). 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 at a NISSAN dealer.

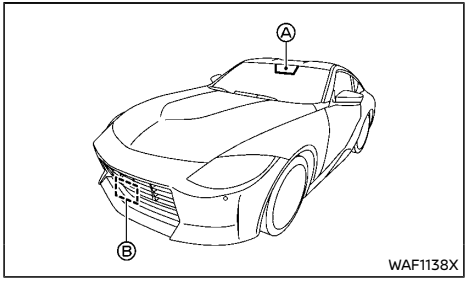
INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM (if equipped)

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.

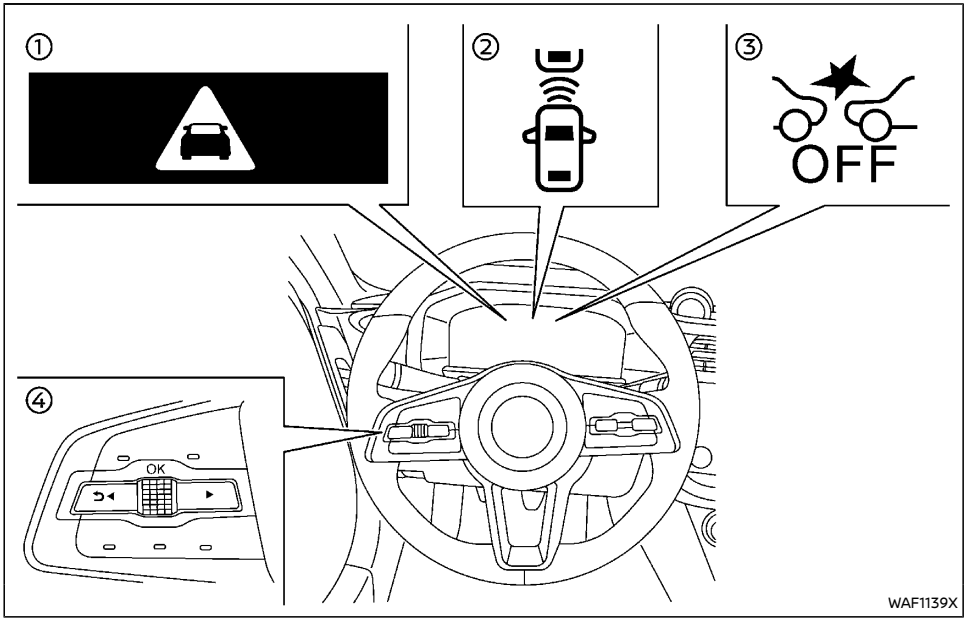
- **The Intelligent Emergency Braking with pedestrian detection system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.**
- **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 the vehicle ahead in the traveling lane or with a pedestrian.



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, the Intelligent Emergency Braking system uses a multi-sensing front camera unit Ⓐ installed behind the windshield in addition to the radar sensor.



① Intelligent Emergency Braking emergency warning indicator
② Vehicle ahead detection indicator
③ Intelligent Emergency Braking system OFF warning light
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 detection function, the Intelligent Emergency Braking with pedestrian detection system operates at speeds between 10 – 60 km/h (6 – 37 MPH).

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.

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 Intelligent Emergency Braking emergency warning indicator (flashing) (red and white) and audible warning. If the driver releases the accelerator pedal, 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.

Depending on vehicle speed and distance to the vehicle or pedestrian 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.

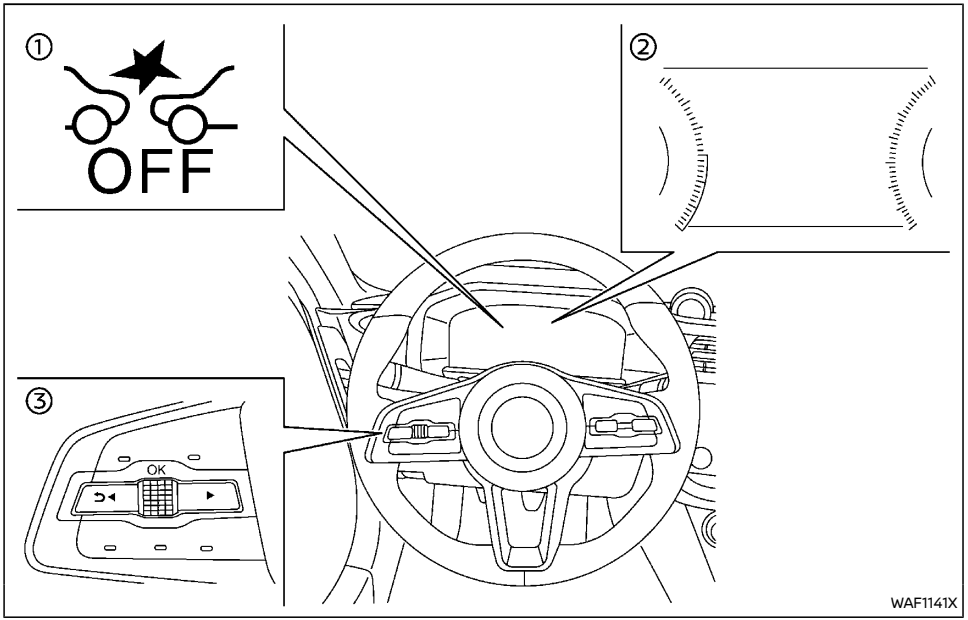
If the driver is handling the steering wheel, accelerating or braking, the Intelligent Emergency Braking with pedestrian detection system will function later or will not function.

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 or pedestrian 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.

TURNING THE INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM ON/OFF



① Intelligent Emergency Braking system OFF warning light

② Vehicle information display

③ Steering-wheel-mounted controls (left side)

Perform the following steps to enable or disable the Intelligent Emergency Braking with pedestrian detection 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 "Emergency Brake" and use 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:

- **The Intelligent Emergency Braking with pedestrian detection system will be automatically turned ON when the engine is restarted.**
- **When the Intelligent Emergency Braking with pedestrian detection system is turned off, the Intelligent Forward Collision Warning system are also turned off. For details about the Intelligent Forward Collision Warning system, see "Intelligent Forward Collision Warning" (P.5-63).**
- **When the Vehicle Dynamic Control (VDC) system is turned off or the Traction mode is ON (for NISMO models), the Intelligent Emergency Braking with pedestrian detection system is also turned off. In this case only the visible and audible warning operates. For details about the VDC system, see "Vehicle Dynamic Control (VDC) system" (P.5-21).**
- **While driving, Intelligent Emergency Braking with pedestrian detection system cannot be turned off. (for Australia and New Zealand)**

INTELLIGENT EMERGENCY BRAKING WITH PEDESTRIAN DETECTION SYSTEM LIMITATIONS

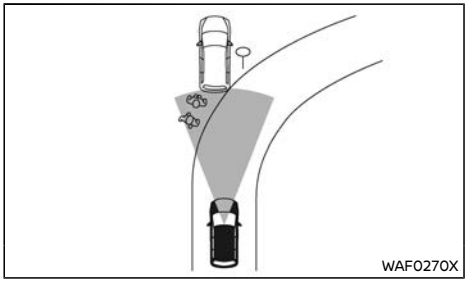
WARNING:

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.

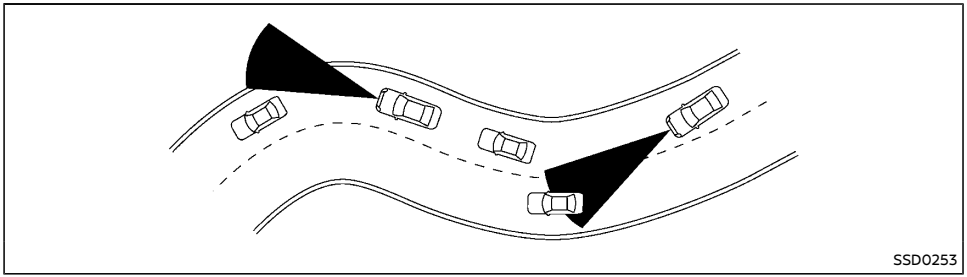
- The Intelligent Emergency Braking with pedestrian detection system cannot detect all vehicles or pedestrians under all conditions.
- The Intelligent Emergency Braking with pedestrian detection system does not detect the following:
  - Pedestrians that are small (for example, children), in a sitting 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.
  - Oncoming or 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 speeds over approximately 80 km/h (50 MPH).
  - Pedestrian detection will not function when the vehicle is driven at speeds over approximately 60 km/h (37 MPH) or below approximately 10 km/h (6 MPH).
- 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 or pedestrian 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 or pedestrian 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 or pedestrian 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. (for Australia and New Zealand)
  - 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 or pedestrian is located near a traffic sign, a reflective area (for example, water on road), or is in a shadow.
  - When multiple pedestrians are grouped together.

— When the view of the pedestrian is obscured by a vehicle or other object.

- 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 cargo area of your vehicle.
- The system is designed to automatically check the sensor (radar and camera)'s 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 if they are the same size and position as a vehicle'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 oncoming vehicle in front of your vehicle.
- The Intelligent Emergency Braking with pedestrian detection system may react to:
  — objects on the roadside (traffic sign, guardrail, pedestrian, vehicle, etc.)



  — 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 approaching the traveling lane
  — vehicles, pedestrians or objects in adjacent lanes or close to the vehicle
  — oncoming pedestrians
  — 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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When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, 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

Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the Intelligent Emergency Braking with Pedestrian Detection system is automatically turned off.

The Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will illuminate.

The "Currently unavailable Radar inhibited" warning message will appear in the vehicle information display. (for Australia and New Zealand)

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition B (except for Australia and New Zealand)

If the following conditions, the Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will flash (no message appears in the vehicle information display).

- Strong light is shining from the front of the vehicle.
- The cabin temperature is over approximately 40°C (104°F) in direct sunlight.
- The camera area of windshield glass is continuously covered with dirt, etc.
- The camera unit detects it's misalignment condition.

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

NOTE:

When the inside of the windshield on camera area is misted or frozen, it will take a period of time to remove it after air conditioner turns on. If dirt appears on this area, it is recommended you visit a NISSAN dealer.

Condition C

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the Intelligent Emergency Braking with Pedestrian Detection system will be canceled, the "Temporary disabled Radar blocked See owner's Manual" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will illuminate.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display. If the "Temporary disabled Radar blocked See owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition D

When the radar sensor of the front bumper is covered with dirt or is obstructed, the Intelligent Emergency Braking with Pedestrian Detection system will automatically be canceled. The "Temporary disabled Radar blocked See owner's Manual" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will illuminate.

Action to take:

If the warning message appears, stop the vehicle in a safe place, push the park button to shift to the P (Park) position (Automatic Transmission model) or the shift lever to the N (Neutral) position (Manual Transmission model). And turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front bumper and restart the engine. If the "Temporary disabled Radar blocked See owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition E

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snowfields, driving next to long walls), the system may illuminate the Intelligent Emergency Braking system OFF warning light and display the "Temporary disabled Radar blocked See owner's Manual" message.

The Vehicle ahead detection indicator will illuminate.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

NOTE:

If the Intelligent Emergency Braking with Pedestrian Detection system stops working, the I-FCW system will also stop working.

Condition F

When the Vehicle Dynamic Control (VDC) system is OFF or the Traction mode is ON (for NISMO models), the Intelligent Emergency Braking brake will not operate. In this case only visible and audible warning operates. The Intelligent Emergency Braking system OFF warning light (orange) will illuminate.

The "Currently unavailable VDC OFF" warning message will appear in the vehicle information display. (for Australia and New Zealand)

Action to take:

When the VDC system is ON, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition G (for Australia and New Zealand)

If the following conditions, the Intelligent Emergency Braking system OFF warning light will illuminate and Vehicle ahead detection indicator will flash.

The "Currently unavailable Poor visibility" warning message will appear in the vehicle information display.

- Strong light (for example, sunlight or high beams) enters the front camera
- In poor visibility conditions (such as rain, snow, fog, dust storms, sand storms, smoke, and road spray from other vehicles)

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition H (for Australia and New Zealand)

When the front camera temperature becomes high due to parking in direct sunlight under high temperature conditions, the Intelligent Emergency Braking with Pedestrian Detection system will be canceled, the "Currently unavailable Front camera high temperature" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light will illuminate and Vehicle ahead detection indicator will flash.

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition I (for Australia and New Zealand)

When the camera area of the windshield is frozen, the Intelligent Emergency Braking with Pedestrian Detection system will be canceled and the "Temporary disabled Camera blocked See Owner's manual" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light will illuminate and Vehicle ahead detection indicator will flash.

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition J (for Australia and New Zealand)

When the camera area of the windshield is covered with dirt, the Intelligent Emergency Braking with Pedestrian Detection system will be canceled and the "Temporary disabled Radar blocked See Owner's manual" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light will illuminate and Vehicle ahead detection indicator will flash.

Action to take:

Always keep the area near the front camera clean.

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

Condition K (for Australia and New Zealand)

If the following conditions, the Intelligent Emergency Braking system OFF warning light will illuminate and Vehicle ahead detection indicator will flash.

The "Currently unavailable" warning message will appear in the vehicle information display.

- When being towed
- When the system check has not completed properly

Action to take:

When the above conditions no longer exist, the Intelligent Emergency Braking with Pedestrian Detection system will resume automatically.

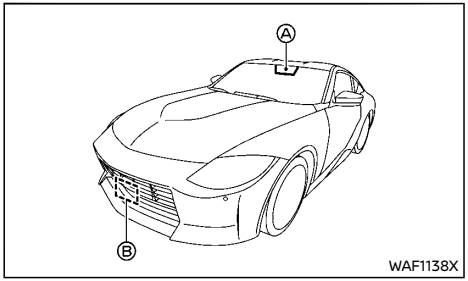
SYSTEM MALFUNCTION

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 (orange) will illuminate and the warning message "System fault See Owner's Manual" and Vehicle ahead detection indicator will appear in the vehicle information display.

Action to take:

If the warning light (orange) 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 by a NISSAN dealer.

SYSTEM MAINTENANCE



The radar sensor Ⓑ is located on the front of the vehicle. The multi-sensing front camera unit Ⓐ 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.
- 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. Contact a NISSAN dealer before customizing or restoring the sensor area.

For the radio approval numbers and information, see "Radio approval number and information" (P.9-13).

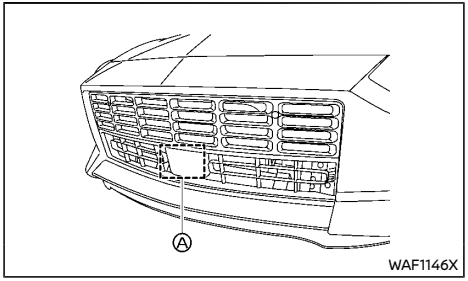
INTELLIGENT FORWARD COLLISION WARNING (if equipped)

WARNING:

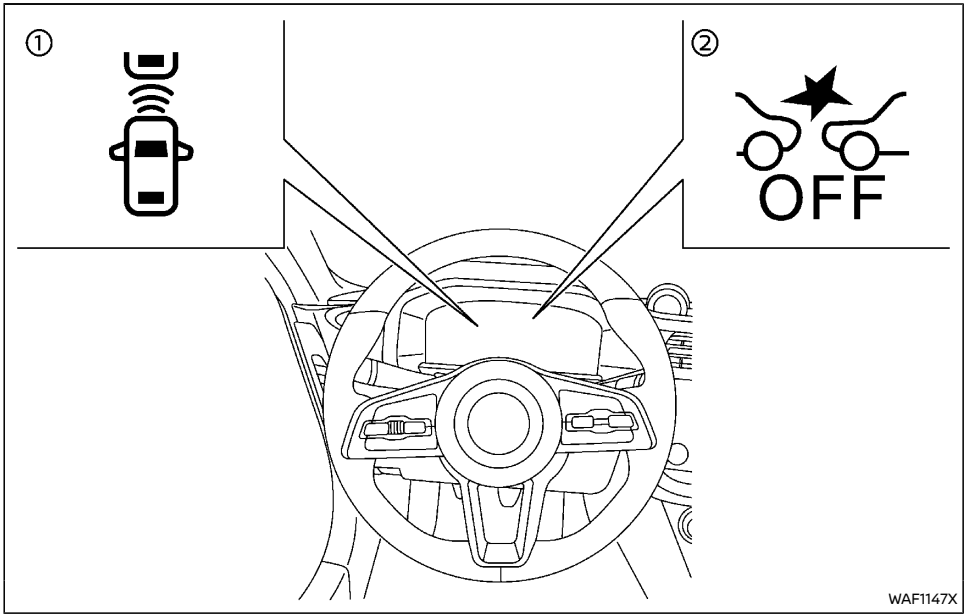
Failure to follow the warnings and instructions for proper use of the Intelligent Forward Collision Warning system could result in serious injury or death.

- **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.**

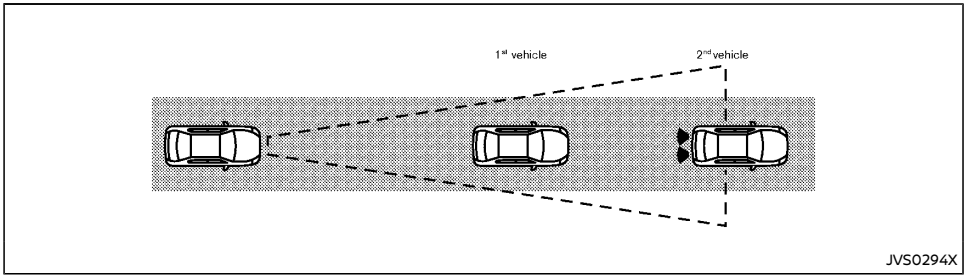
The Intelligent Forward Collision Warning system can help alert the driver when there is a sudden braking of a second vehicle traveling in front of the vehicle ahead in the same lane.



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
② Intelligent Emergency Braking system OFF warning light

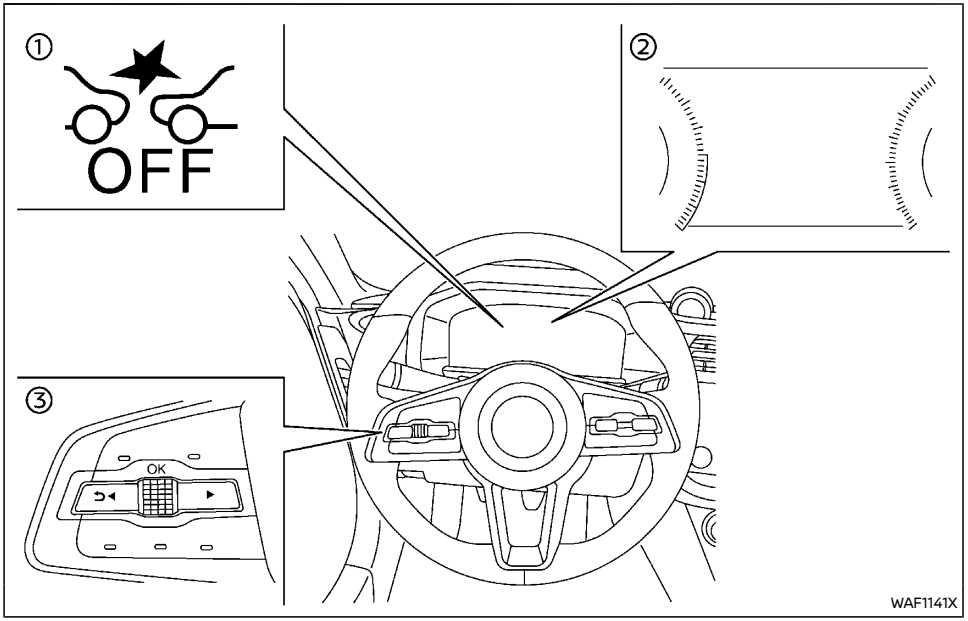


INTELLIGENT FORWARD COLLISION WARNING SYSTEM OPERATION

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

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. Select "Emergency Brake" and use 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 (orange) 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.**
- **While driving, Intelligent Forward Collision Warning system cannot be turned off. (for Australia and New Zealand)**

INTELLIGENT FORWARD COLLISION WARNING SYSTEM LIMITATIONS

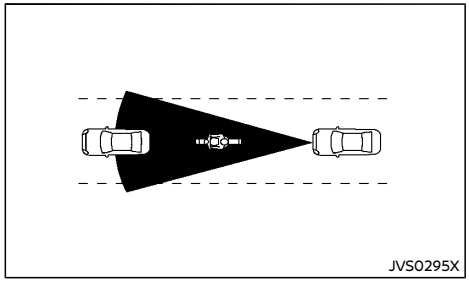


Illustration A

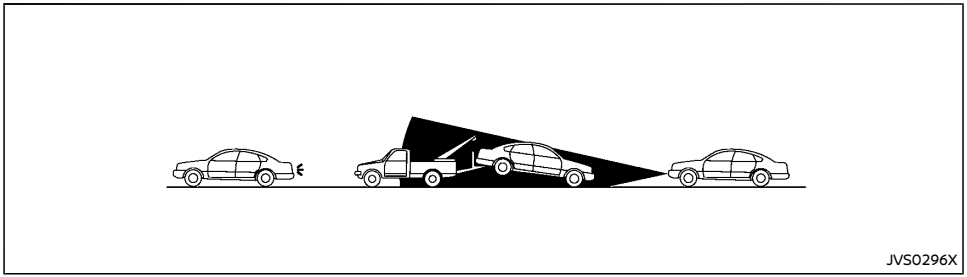


Illustration B

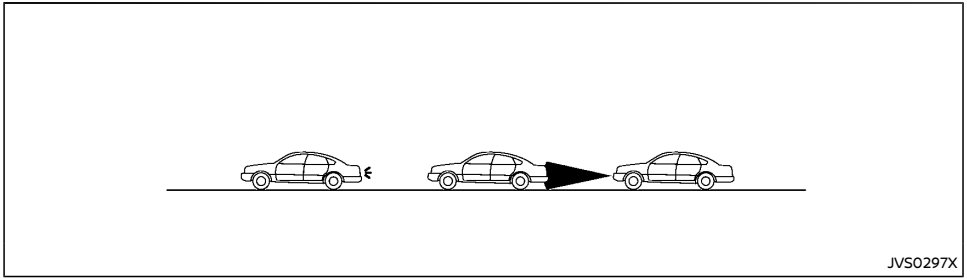


Illustration C

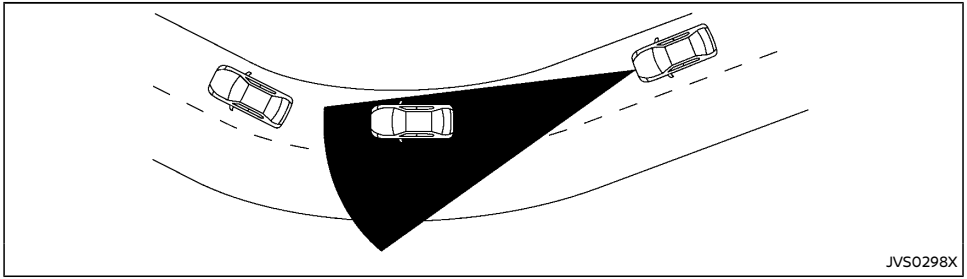


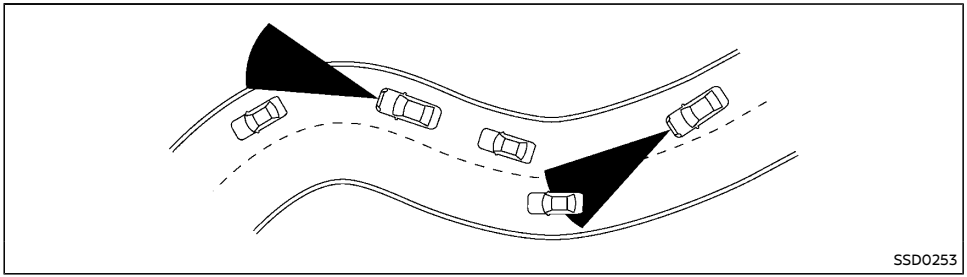
Illustration D

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 travelling vehicles.**
  - **— Driving in a tunnel**
- **(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

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 and Vehicle ahead detection indicator will illuminate.

The "Currently unavailable Radar inhibited" warning message will appear in the vehicle information display. (for Australia and New Zealand)

Action to take:

When the above conditions no longer exist, the Intelligent Forward Collision Warning system will resume automatically.

Condition B

When there is inclement weather (rain, fog, snow, etc.) blocking the front radar sensor, the Intelligent Forward Collision Warning system will be canceled, the "Temporary disabled Radar blocked See owner's Manual" warning message will appear in the vehicle information display. The Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will illuminate.

Action to take:

When the conditions listed above are no longer present, the warning message will no longer be available in the vehicle information display. If the "Temporary disabled Radar blocked See owner's Manual" warning message continues to be displayed, have the system checked. It is recommended that you visit a NISSAN dealer for this service.

Condition C

When the radar sensor of the front bumper is covered with dirt or is obstructed, the Intelligent Forward Collision Warning system will automatically be canceled. The "Temporary disabled Radar blocked See owner's Manual" warning message will appear in the vehicle information display.

The Intelligent Emergency Braking system OFF warning light and Vehicle ahead detection indicator will illuminate.

Action to take:

If the warning message appears, stop the vehicle in a safe place, push the park button to shift to the P (Park) position (Automatic Transmission model) or the shift lever to the N (Neutral) position (Manual Transmission model). And turn the engine off. When the radar signal is temporarily interrupted, clean the sensor area of the front bumper and restart the engine. If the "Temporary disabled Radar blocked See owner's Manual" warning message continues to be displayed, 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, snowfields, driving next to long walls), the system may illuminate the Intelligent Emergency Braking system OFF warning light and display the "Temporary disabled Radar blocked See owner's Manual" message.

The Vehicle ahead detection indicator will illuminate.

Action to take:

When the above driving conditions no longer exist, turn the system back on.

NOTE:

If the Intelligent Emergency Braking with Pedestrian Detection system stops working, the Intelligent Forward Collision Warning system will also stop working.

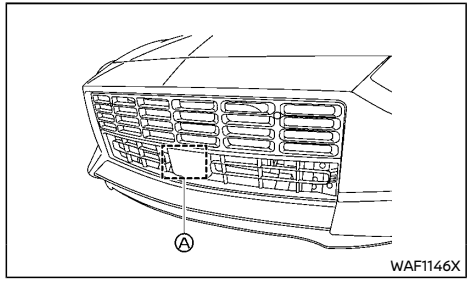
SYSTEM MALFUNCTION

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 (orange) will illuminate and the "System fault See Owner's Manual" warning message and Vehicle ahead detection indicator will appear in the vehicle information display.

Action to take:

If the warning light (orange) 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.

INTELLIGENT DRIVER ALERTNESS (if equipped)

WARNING:

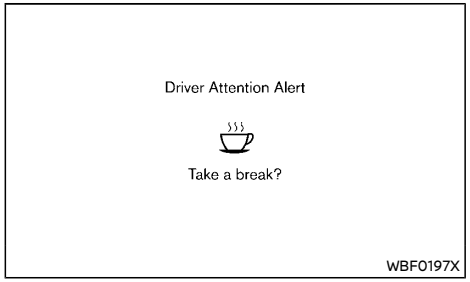
Failure to follow the warnings and instructions for proper use of the Intelligent Driver Alertness system could result in serious injury or death.

- **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.

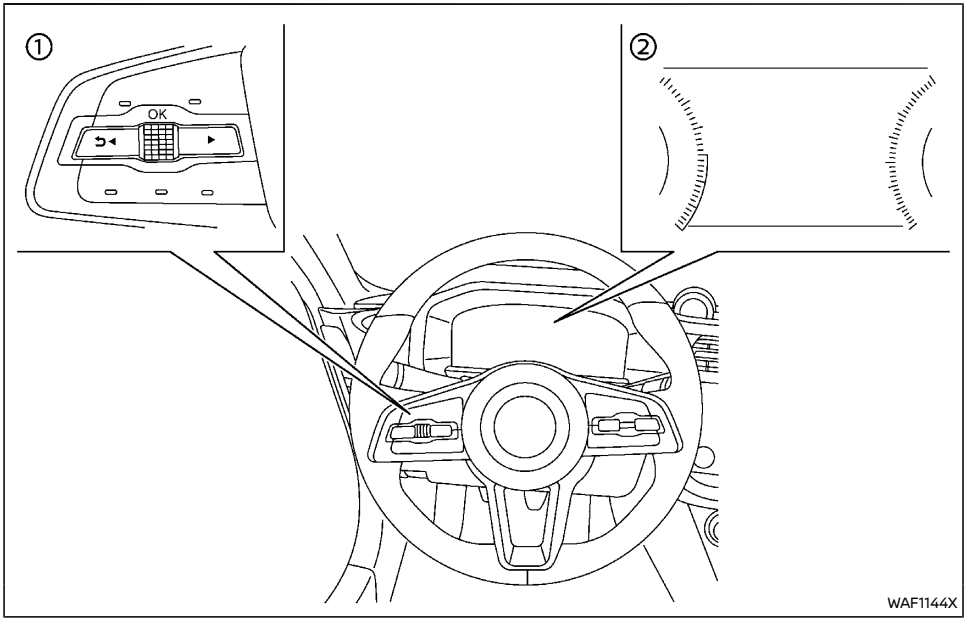
INTELLIGENT DRIVER ALERTNESS SYSTEM OPERATION



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).

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.

HOW TO ENABLE/DISABLE THE INTELLIGENT DRIVER ALERTNESS SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the Intelligent Driver Alertness system.

1. Push the ◀ ▶ button until "Settings" appears in the vehicle information display.
2. Use the ▲▼ button to select "Driver Assistance". Then push the OK button.
3. Select "Driver Attention Alert" and push the OK button to turn the system on or off.

NOTE:

The setting will be retained even if the engine is restarted.

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 may 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.**

SYSTEM MALFUNCTION

If the Intelligent Driver Alertness system malfunctions, the "System fault See Owner's Manual" message will appear in the vehicle information display and the function will be stopped automatically.

Action to take:

Stop the vehicle in a safe location, place the vehicle in "P" (Park) position, 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.

FUEL EFFICIENCY AND CARBON DIOXIDE REDUCTION DRIVING TIPS

Follow these easy-to-use Fuel Efficiency and Carbon Dioxide Reduction Driving Tips to help you achieve the most fuel economy from your vehicle and reduce carbon dioxide emissions.

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. 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.
4. Use cruise control (if equipped).
   - 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.
5. Plan for the shortest route.
   - Utilize a map or navigation system (if equipped) to determine the best route to save time.
6. Avoid idling.
   - Shutting off your engine when safe for stops exceeding 30-60 seconds saves fuel and reduces emissions.
7. 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.
8. 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.
9. 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.
10. Do not carry excessive weight.
    - Remove unnecessary objects from the vehicle to reduce vehicle weight.

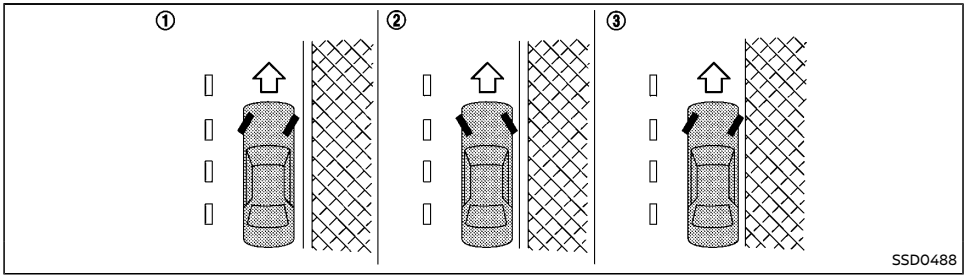
INCREASING FUEL ECONOMY AND REDUCING CARBON DIOXIDE EMISSIONS

- 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).)

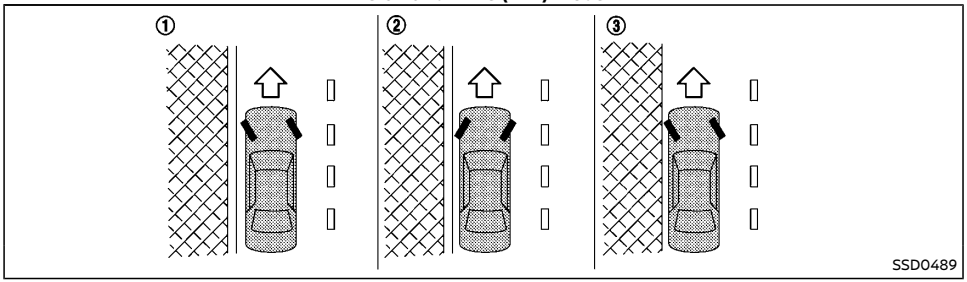
PARKING

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.**
- **Safe parking procedures require that both the parking brake be applied and the transmission placed into the "P" (Park) for Automatic Transmission (AT) model or in an appropriate gear for Manual Transmission (MT) model. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**
- **When parking the vehicle, make sure the vehicle is placed in the "P" (Park) position. The shift position cannot be moved out of the "P" (Park) position without depressing the foot brake pedal. (AT model)**
- **Never leave the engine running while the vehicle is unattended.**
- **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.**



Left-Hand Drive (LHD) model



Right-Hand Drive (RHD) model

1. Firmly apply the parking brake.
2. Automatic Transmission (AT) model: Push the park button to shift to the "P" (Park) position.

   Manual Transmission (MT) model: Move the shift lever to the "R" (Reverse) position. When parking on an uphill grade, move the shift lever to the "1" (1st) position.
3. To help prevent the vehicle from moving into traffic when parked on an incline, 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. Then apply the parking brake.

   HEADED UPHILL WITH CURB ②

   Turn the wheels away from the curb and allow the vehicle to move back until the curb side wheel gently touches the curb. Then apply the parking brake.

   HEADED UPHILL OR DOWNHILL, WITHOUT CURB ③

   Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if the vehicle moves. Then apply the parking brake.
4. Push the ignition switch to the "OFF" position.

TRAILER TOWING

Do not tow a trailer with your vehicle.

ELECTRIC POWER STEERING

WARNING:

- **If the engine is not running or is turned off while driving, the power assist for the steering will not work. The 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 (Automatic Transmission model), the steering wheel effort is moderately increased for a sporty feel. (See "Drive Mode Selector" (P.5-15).)

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.2-14).)

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.

BRAKE SYSTEM

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking ability at two wheels.

BRAKE PRECAUTIONS

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the foot brake pedal. However, greater foot pressure on the foot brake pedal will be required to stop the vehicle. The stopping distance will be longer.

If the engine is not running or is turned off while driving, the power assisted brakes will not function. Braking will be harder.

WARNING:

Do not coast with the engine stopped.

When the brake pedal is depressed slowly and firmly, you may hear a clicking noise and feel a slight pulsation. This is normal and indicates that the Brake Assist System is operating.

Using brakes

Avoid resting your foot on the foot brake pedal while driving. This will overheat the brakes, wear out the brake linings/pads faster, and increase fuel consumption.

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.

While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or acceleration could cause the wheels to skid and result in an accident.

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 the brakes, drive the vehicle at a safe speed while lightly depressing the foot 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.

Parking brake break-in

Break in the parking brake shoes whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums/rotors are replaced, in order to assure the best braking performance.

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

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, make sure that it is the proper size and type as specified on the tire placard. (See "Tire placard" (P.9-9).)**
- **For detailed information, see "Tires and wheels" (P.8-23).**

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 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 by a NISSAN dealer.

Normal operation

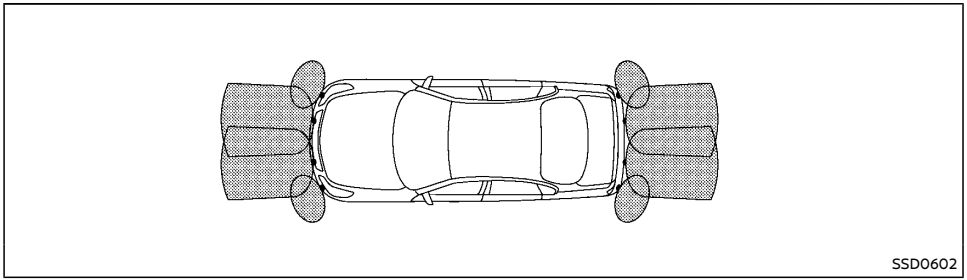
The ABS operates at speeds above 5 to 10 km/h (3 to 6 MPH). The speed varies according to road conditions.

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 SECURITY

When leaving your vehicle unoccupied:

- Always take the key with you - even when leaving the vehicle in your own garage.
- Close all windows completely and lock all doors.
- Always park your vehicle where it can be seen. Park in a well lit area during the night.
- If the security system is equipped, use it - even for a short period.
- Never leave children or pets in the vehicle unattended.
- Never leave valuables inside the vehicle. Always take valuables with you.
- Never leave the vehicle documents in the vehicle.
- Never leave articles on a roof rack. Remove them from the rack and keep and lock them in a safe place such as inside the cargo area.
- Never leave the spare key in the vehicle.


SSD0602

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 and in the center display (when the camera screen is activated).

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.**
- **Read and understand the limitations of the parking sensor (sonar) system as contained in this section. The colors of the parking sensor indicator indicates 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.**

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.**
- **The front and rear parking sensors (sonar) detect the distance between the vehicle and the obstacle by detecting the sound wave reflected from the surface of an 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.**
- **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

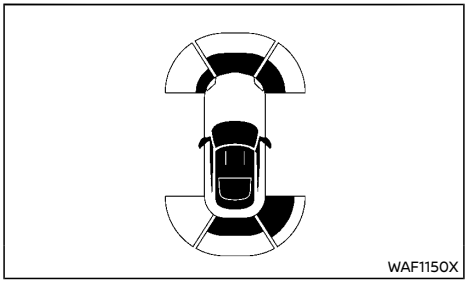
The system informs with a visual and audible signal of front obstacles when the shift lever is in the "D" (Drive) position and both front and rear obstacles when the shift lever is in the "R" (Reverse) position.

The system is deactivated at speeds above 10 km/h (6 MPH). It is reactivated at lower speeds.

The intermittent tone will stop after 3 seconds when an obstacle is detected by only the corner sensor and the distance does not change. The tone will stop when the obstacle get away from the vehicle.

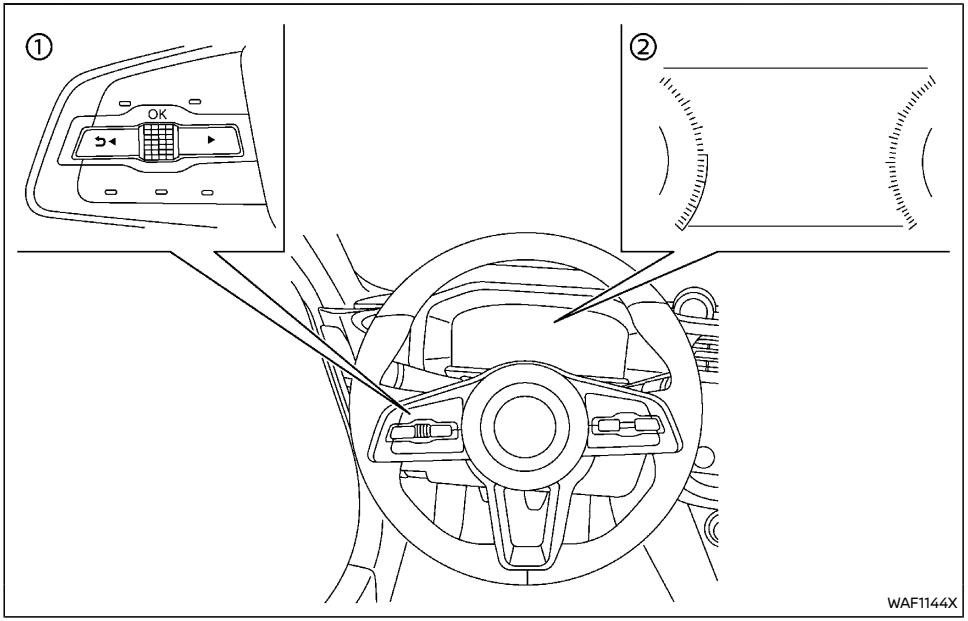
When the object is detected, the indicator (green) appears and blinks and the tone sounds intermittently. When the vehicle moves

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.



When the vehicle moves closer to an obstacle, the parking sensor indicator (detected area) appears in the vehicle information display.

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) or "R" (Reverse) position.

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:

- Sensor

  — Changes the mode of sonar sensors to "ON," "OFF" or "Front Only"
- Distance

  — Changes the sensor's detection distance to "Far," "Medium" or "Near"
- Display

  — Shows the parking sensor display in the vehicle information display when the parking sensor (sonar) system activates
- 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 is a structure (for example, a wall, a toll gate equipment, a narrow tunnel or a parking lot gate) near the side of 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.

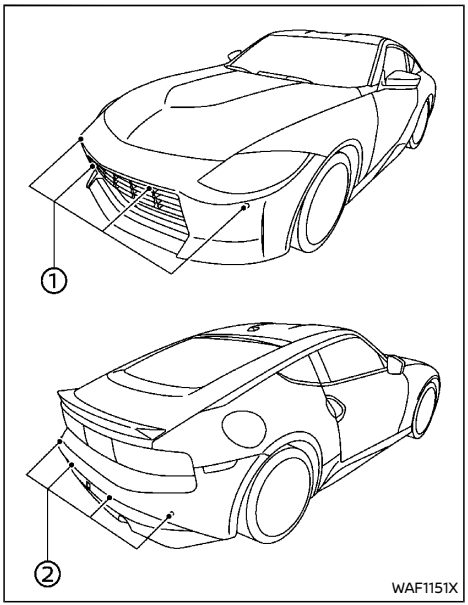
The system is not available until the conditions no longer exist.

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 ① and ② are located on the front and rear 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.

LIMITED SLIP DIFFERENTIAL (LSD)

The rear final drive of this vehicle is equipped with a mechanical Limited Slip Differential (LSD).

WARNING:

Sudden operation of the accelerator pedal can result in fishtailing or sideslip, possibly causing an accident. Use particular caution when driving in rainy weather or on slippery roads.

NOTE:

- **Use the designated differential gear oil. If any oil other than the designated oil is used, the LSD may not operate correctly, and noise and vibration may occur, possibly resulting in a malfunction.**
- **If the vehicle accelerates from a stop with the steering wheel turned in cold temperatures, the inner wheel tire may slip and some noise or vibration may be heard. This phenomenon is unique to vehicles equipped with the LSD. This does not indicate that there is a malfunction.**
- **The LSD controls the speed difference between the left and right wheels, and optimally allocates torque to the wheels.**
- **The mechanical LSD in the rear final drive of this vehicle is characterized by its asymmetrical LSD effects when the accelerator pedal is ON and when it is OFF. This allows the appropriate amount of torque for the driving environment to be transmitted to the road surface.**

COLD WEATHER DRIVING

WARNING:

- **Whatever the condition, drive with caution. Accelerate and decelerate with great care. If accelerating or decelerating too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance in cold weather driving. Braking should be started sooner than on dry pavement.**
- **Keep at a greater distance from the vehicle in front of you on slippery roads.**
- **Wet ice (0°C, 32°F and freezing rain), very cold snow and ice can be slick and very difficult to drive on. The vehicle will have a lot less traction or grip under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Watch for slippery spots (glaring 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 actually on the ice, and avoid any sudden steering maneuvers.**
- **Do not use cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gas under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

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 details, see "Battery" (P.8-16) of this manual.

ENGINE COOLANT

If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see "Changing engine coolant" (P.8-7) of this manual.

TIRE EQUIPMENT

CAUTION:

Tire chains/cables should not be installed on 19-inch size tires. Doing so will cause damage to the vehicle.

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.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during the winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.

PARKING BRAKE

When parking in the area where the outside temperature is below 0°C (32°F), the parking brake, if applied, may freeze in place and may be difficult to release.

Manual Transmission (MT) models:

For safe parking, it is recommended that you place the shift lever in the "R" (Reverse) or "1" (1st) position and securely block the wheels.

Automatic Transmission (AT) models:

For safe parking, it is recommended that you place the shift position in the "P" (Park) position and securely block the wheels.

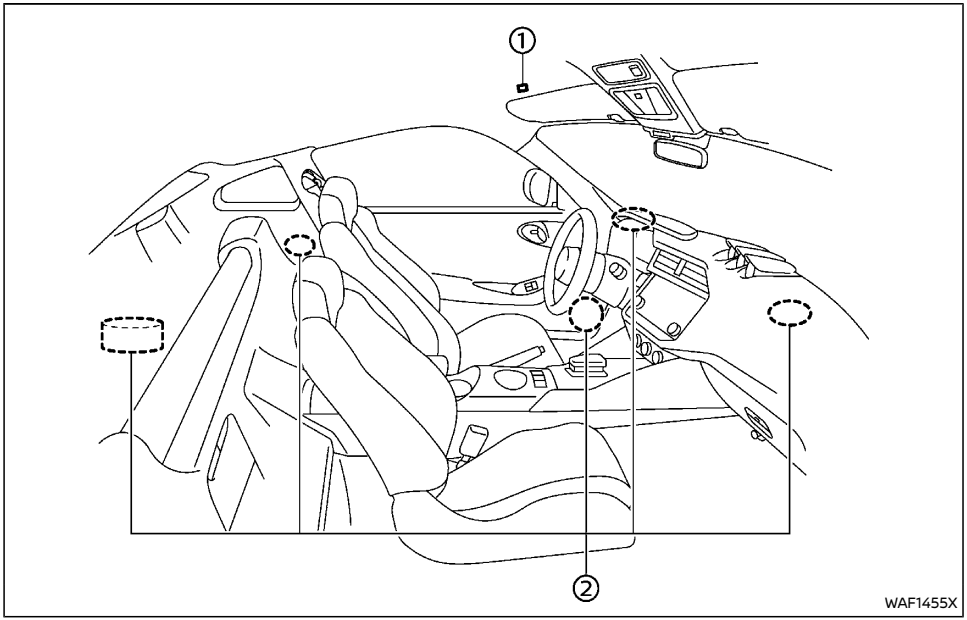
CORROSION PROTECTION

Chemicals used for road surface deicing are extremely corrosive and will accelerate corrosion and the 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 information, see "Corrosion protection" (P.7-5) of this manual.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

ACTIVE NOISE CANCELLATION/ACTIVE SOUND ENHANCEMENT (if equipped)



① Microphones
② Speakers

NOTE:

To operate the active noise cancellation and active sound enhancement properly:

- Do not cover the speakers.
- 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 or speakers.

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 to reduce engine booming noise.

If the microphone 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 to enhance the quality of the engine sound.

In addition, if the gear is shifted or the accelerator pedal is quickly operated when the Drive Mode Selector is used to select the SPORT mode or the SPORT+ mode and the engine warmed up, a sound effect is output to enhance the sense of sportiness. (for NISMO models) (See "Drive Mode Selector" (P.5-15).)

6 In case of emergency

Hazard indicator flasher switch 6-2
Flat tire 6-2
- Tire Pressure Monitoring System (TPMS) 6-2
- Stopping vehicle 6-3
- Preparing tools 6-3
- Changing flat tire (for model with spare tire) 6-3
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Towing your vehicle 6-14
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- Towing recommended by NISSAN (except for NISMO models) 6-14
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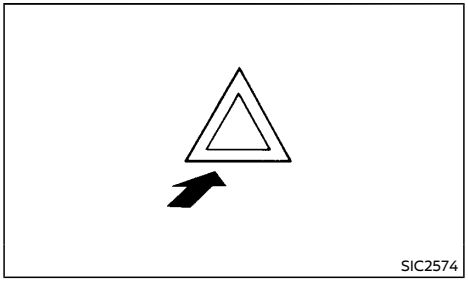
HAZARD INDICATOR FLASHER SWITCH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The hazard indicator flasher switch operates regardless of the ignition switch position except when the battery is discharged.

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.

FLAT TIRE

If you have a flat tire, follow the instructions as follows.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

WARNING:

- **If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen 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. 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 with the 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 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 (for models equipped with the emergency tire puncture repair kit). It is recommended you visit a NISSAN dealer as soon as possible after using tire repair sealant.**

The Tire Pressure Monitoring System (TPMS) monitors tire pressure of all tires except the spare tire (if equipped). When the low tire pressure warning light is lit and the "Low Tyre Pressure" warning appears on 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 (in the meter panel). This system will activate only when the vehicle is driven at speeds above 25 km/h (16 MPH).

For more details, see "Low tire pressure warning light" (P.2-14) and "Tire Pressure Monitoring System (TPMS)" (P.5-5).

STOPPING VEHICLE

WARNING:

- **Be sure to apply the parking brake firmly.**
- **Be sure to Push the park button to engage the "P" (Park) position (Automatic Transmission model).**
- **Be sure to move the shift lever to the "R" (Reverse) position (Manual Transmission model).**
- **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.**

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. Automatic Transmission model: Push the park button to engage the "P" (Park) position.

   Manual Transmission model: Move the shift lever to the "R" (Reverse) position.
6. Turn off the engine.
7. Open the hood and set up the triangle reflector (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.

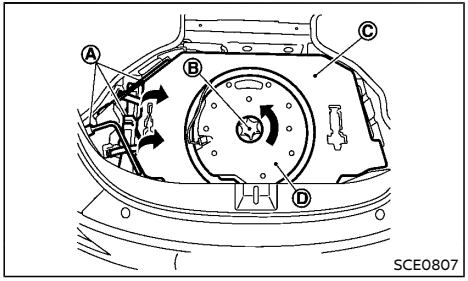
PREPARING TOOLS

Raise the cargo room carpet and floor cover.

Your vehicle is equipped with either a spare tire or an emergency tire puncture repair kit. Carefully read the instructions provided in the appropriate section.

- For model with spare tire: See "Changing flat tire (for model with spare tire)" (P.6-3).
- For model with emergency tire puncture repair kit: See "Repairing flat tire (for model with emergency tire puncture repair kit)" (P.6-6).

CHANGING FLAT TIRE (for model with spare tire)



With subwoofer

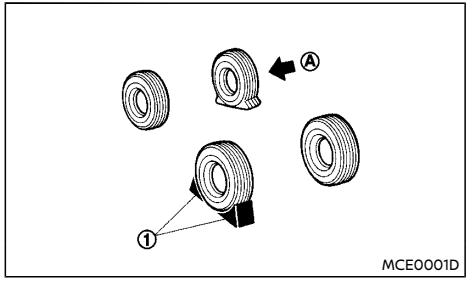
Remove jacking tools Ⓐ located under the cargo area as illustrated.

Unfasten the belts and lift the jack up to remove.

Models with subwoofer

Remove the spare tire cover Ⓒ. Turn the retainer Ⓑ counterclockwise, remove the subwoofer Ⓓ and place it on the side of the cargo area (with the flat surface facing down), then carefully remove the spare tire.

Blocking wheels

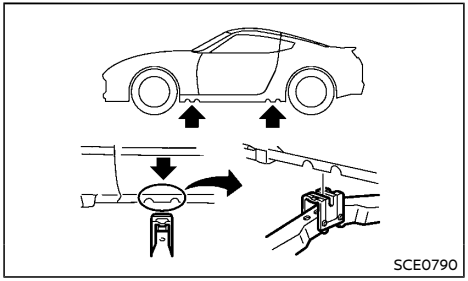


WARNING:

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

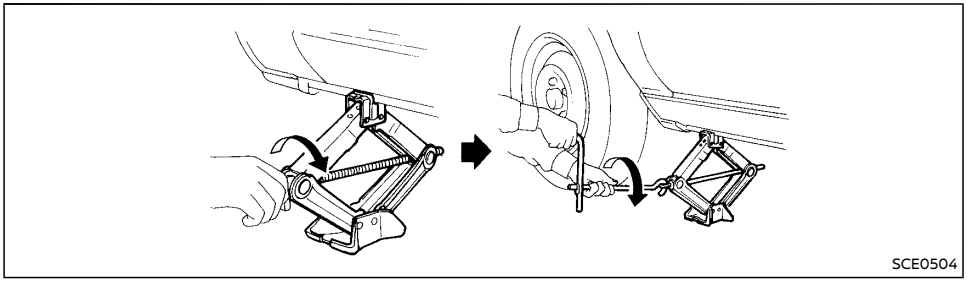


Jack-up points

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 is not provided with your vehicle.**
- **The jack, which is provided with your vehicle, is designed only to lift your vehicle during a tire change.**
- **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 or run the engine 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.**

Jacking up vehicle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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.

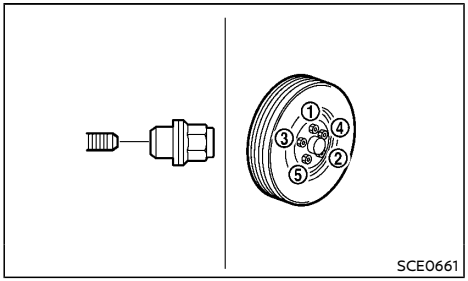
Removing tire

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 spare tire



SCE0661

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 is designed for emergency use only.**

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the spare tire on and tighten the wheel nuts with your fingers. Check that all the wheel nuts contact the wheel surface horizontally.

   Note the following information for the models equipped with different size tires on the front and rear: When replacing a front tire, make sure the hole in the spare tire wheel is aligned with the pin on the brake rotor.
3. Tighten the wheel nuts alternately and evenly, more than 2 times in the sequence illustrated (① to 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 as 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.

WARNING:

Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles) (also in case of a flat tire, etc.).

For models equipped with the Tire Pressure Monitoring System (TPMS)

- After adjusting the tire pressure, the TPMS must be reset (model with TPMS reset function). See "Tire Pressure Monitoring System (TPMS)" (P.5-5) 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 the tire temperature rises. This does not indicate a system malfunction.

Stowing damaged tire and tools

WARNING:

Be sure that the tire, jack and tools 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 in the storage area.
2. Replace the spare tire cover (if equipped), floor cover and cargo room carpet.
3. Close the rear hatch.

REPAIRING FLAT TIRE (for model with emergency tire puncture repair kit)

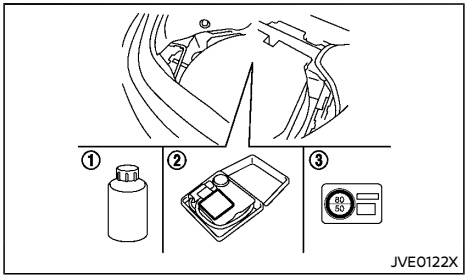
The emergency tire puncture repair kit is supplied with the vehicle instead of a spare tire. This repair kit must be used for temporarily fixing a minor tire puncture. After using the repair kit, see a NISSAN dealer as soon as possible for tire inspection and repair/replacement.

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**

Getting emergency tire puncture repair kit

Take out the emergency tire puncture repair kit located under the cargo room. The repair kit consists of the following items:



① Tire sealant bottle
② Air compressor
③ Speed restriction sticker
*: The stored items and their shape may differ depending on the models.

NOTE:

For models with the emergency tire puncture repair kit, a spare tire, jack and rod are not equipped as standard. These parts are dealer options. Contact a NISSAN dealer about obtaining these parts. See "Changing flat tire (for model with spare tire)" (P.6-3) for usage of jacking tools and tire replacement.

Before using emergency tire puncture repair kit

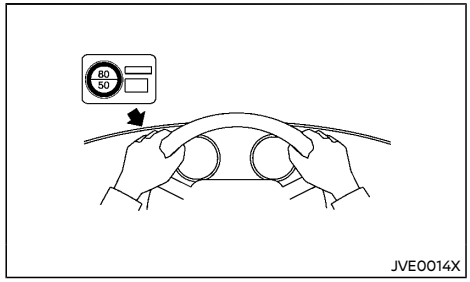
- If any foreign object (for example, a screw or nail) is embedded in the tire, do not remove it.
- Check the expiration date of the sealant (shown on the label attached to the bottle). Never use a sealant whose expiration date has passed.

Repairing tire (Type A)

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.**
- **The emergency repair compound may cause a malfunction of the tire pressure sensors and cause the low tire pressure warning light to illuminate. Have the tire pressure sensor replaced as soon as possible.**

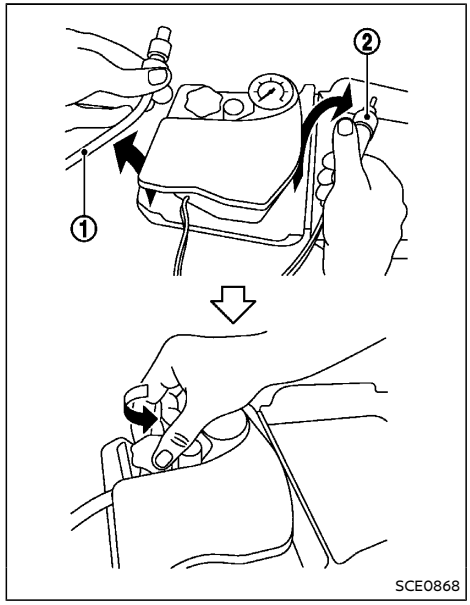


1. Take out the speed restriction sticker from the air compressor*, then put it in a location where the driver can see it while driving.

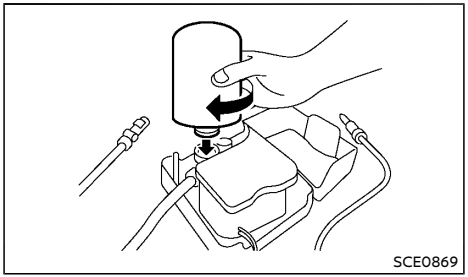
   *: The compressor shape may differ depending on the models.

CAUTION:

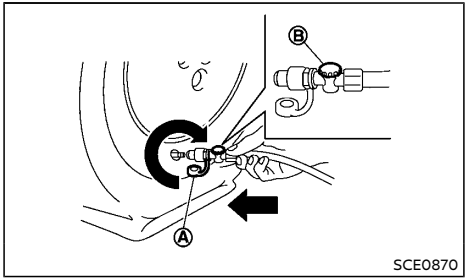
Do not put the speed restriction label on the steering wheel pad, the speedometer or the warning light locations.



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.


SCE0869

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.



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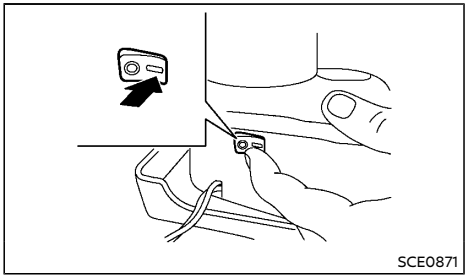
5. Remove the protective cap Ⓐ of the hose and screw the hose securely onto the tire valve. Make sure that the pressure release valve Ⓑ is securely tightened. Make sure that the air compressor switch is in the OFF (○) position, and then insert its power plug into the power outlet in the vehicle.


SCE0871

6. Push the ignition switch to the "ACC" 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 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 step 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 the repair/replacement as soon as possible.

CAUTION:

Do not reuse the tire sealant bottle or the hose.

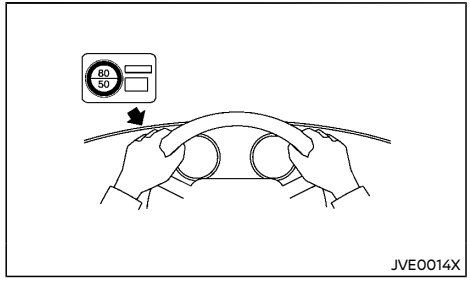
For a new tire sealant bottle and hose, see a NISSAN dealer.

Repairing tire (Type B)

WARNING:

Observe the following precautions when using the emergency tire puncture repair kit.

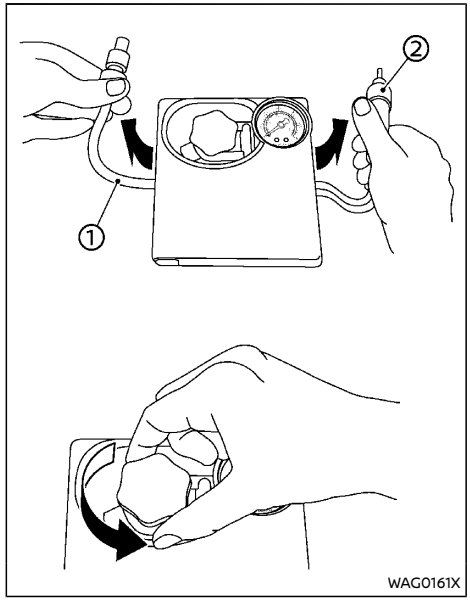
- **Swallowing the compound is dangerous. Immediately drink as much water as possible and seek prompt medical assistance.**
- **Rinse well with lots of water if the compound comes into contact with skin or eyes. If irritation persists, seek prompt medical attention.**
- **Keep the repair compound out of the reach of children.**
- **The emergency repair compound may cause a malfunction of the tire pressure sensors and cause the low tire pressure warning light to illuminate. Have the tire pressure sensor replaced as soon as possible.**



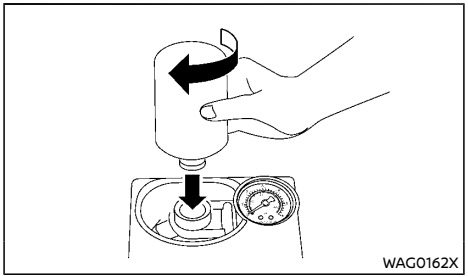
1. Take out the speed restriction sticker from the air compressor, then put it in a location where the driver can see it while driving.

CAUTION:

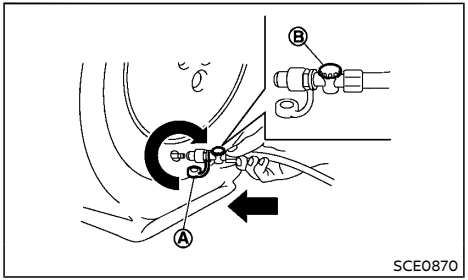
Do not put the speed restriction label on the steering wheel pad, the speedometer or the warning light locations.



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.

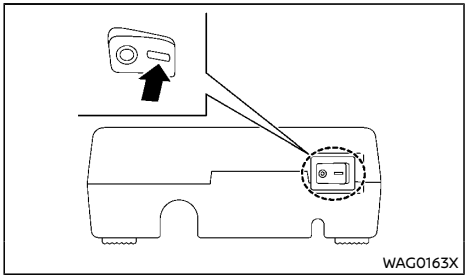

WAG0162X

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.



SCE0870

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.


WAG0163X

6. Place the ignition switch in the "ACC" position. Then turn the compressor switch to the ON (–) position and inflate the tire up to the pressure that is specified on the Tire and Loading Information label 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 and Loading Information label 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.** It is recommended that you contact a NISSAN certified 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. It is recommended that you contact a NISSAN certified 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.** It is recommended that you contact a NISSAN certified dealer.

When the tire pressure is the specified pressure:

The temporary repair is completed.

It is recommended that you visit a NISSAN certified 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, it is recommended that you contact a NISSAN certified dealer.

After repairing tire

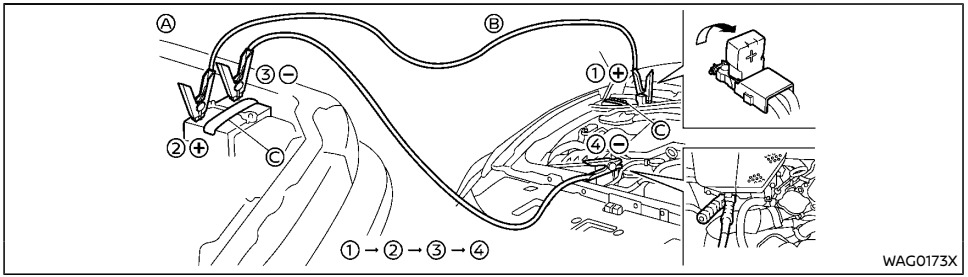
See a NISSAN dealer for tire repair/replacement as soon as possible.

WARNING:

- **Incorrect jump starting can lead to a battery explosion. The battery explosion may result in severe injury or death. It may also result in damage to the vehicle. Be sure to follow the instructions in this section.**
- **Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.**
- **Always wear suitable eye protection and remove rings, bracelets, and any other jewelry whenever working on or near a battery.**
- **Never lean over the battery while jump starting.**
- **Never allow battery fluid to come into contact with eyes, skin, clothes or the vehicle's painted surfaces. Battery fluid is a corrosive sulfuric acid which can cause severe burns. If the fluid comes into contact with anything, immediately flush the contacted area with plenty of water.**
- **Keep the battery out of the reach of children.**
- **The booster battery must be rated at 12 volts. Use of an incorrectly rated battery will damage your vehicle.**
- **Never attempt to jump start a frozen battery. It could explode and cause serious injury.**

NOTE:

For automatic transmission models, the malfunction Indicator Light (MIL) may be lit by detecting low voltage. This does not affect the driving function. When the voltage returns to the normal value (>12V) or the engine is started 3 times or more, the MIL turns off.



1. If the booster battery is in another vehicle Ⓐ, position the two vehicles Ⓐ and Ⓑ to bring the batteries into close proximity to each other.

CAUTION:

- **Do not allow the two vehicles to touch.**
- **For models with a steering wheel lock mechanism: If the battery is discharged, the steering wheel will lock and cannot be turned with the ignition switch in the "OFF" position. Supply power using jumper cables before pushing the ignition switch to any position other than the "OFF" position and disengaging the steering lock.**

2. Apply the parking brake.
3. Automatic Transmission model: Push the park button to engage the "P" (Park) position.

   Manual Transmission model: Move the shift lever to the "N" (Neutral) position.
4. Switch off all unnecessary electrical systems (headlights, heater, air conditioner, etc.).
5. Push the ignition switch to the "OFF" position.
6. Remove the vent caps, if equipped, on the battery.
7. Cover the battery with a firmly wrung out moist cloth Ⓒ to reduce the hazard of an explosion.
8. Connect the jumper cables in the sequence as illustrated (①, ②, ③, ④).

CAUTION:

- **Always connect positive ⊕ to positive ⊕ and negative ⊖ to body ground, NOT to the battery's negative ⊖.**
- **Be sure that the jumper cables do not touch moving parts in the engine compartment.**
- **Be sure that the jumper cable's clamps do not contact any other metal.**

9. Start the engine of the booster vehicle Ⓐ and let it run for a few minutes.
10. Depress the accelerator pedal of the booster vehicle Ⓐ at about 2,000 rpm.
11. Start the engine of the jumped vehicle Ⓑ in the normal manner.

CAUTION:

Never keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, push the ignition switch to the "LOCK" position and wait at least 10 seconds before trying again.

12. After the engine is started, carefully disconnect the jumper cables in the opposite sequence from that illustrated (④, ③, ②, ①).
13. Remove and dispose of the cloth properly as it may be contaminated with corrosive acid.
14. Replace the vent caps, if removed.
15. Put the battery cover and the engine compartment cover back to the original location.

PUSH STARTING

Do not attempt to start the engine by pushing the vehicle.

CAUTION:

- **Automatic Transmission (AT) model cannot be started by pushing. Attempting to do so may cause damage to the transmission.**
- **Three-way catalyst equipped models should not be started by pushing. Attempting to do so may cause damage to the three-way catalyst.**
- **Never try to start the engine by towing. When the engine starts, the forward surge could cause the vehicle to collide with the towing vehicle.**

IF YOUR VEHICLE OVERHEATS

WARNING:

- **Never continue driving if your vehicle overheats. Doing so could cause engine damage and/or a vehicle fire.**
- **Never open the hood if steam is coming out.**
- **Never remove the radiator cap while the engine is hot. If the radiator 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 scalded.**
- **The engine cooling fan can start at any time 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 the high temperature indicator), or if you feel a lack of engine power, detect unusual noise, etc., take the following steps:

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard indicator flashers.
3. Apply the parking brake.
4. Automatic Transmission model: Push the park button to shift to the “P” (Park) position.

   Manual Transmission model: Move the shift lever to the “N” (Neutral) position.

   DO NOT STOP THE ENGINE.
5. Open all the windows.
6. Turn off the air conditioner. Move the temperature control to maximum hot and the fan control to high speed.
7. Get out from the vehicle.
8. Visually inspect and listen for steam or coolant escaping from the radiator before opening the hood. Wait until no steam or coolant can be seen before proceeding.
9. Open the engine hood.
10. Visually inspect if the cooling fan is running.
11. Visually inspect the radiator and radiator hoses for leakage. If the cooling fan is not running or the coolant is leaking, stop the engine.
12. After the engine cools down, check the coolant level in the reservoir with the engine running. **Do not open the radiator cap.**
13. Add coolant to the reservoir if necessary.

Have your vehicle inspected/repaired at a NISSAN dealer.

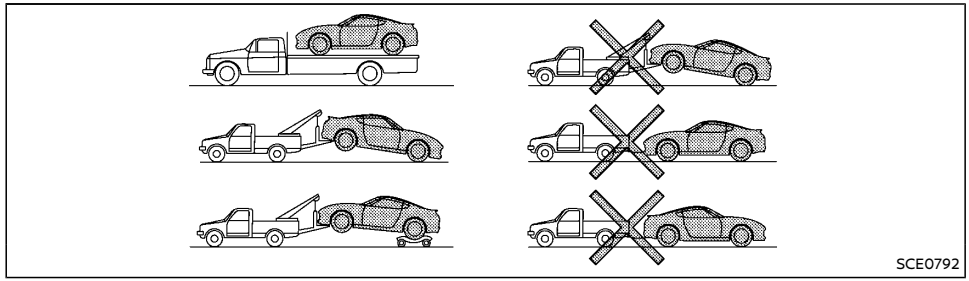
TOWING YOUR VEHICLE

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.

TOWING PRECAUTIONS

- Be sure that the transmission, steering system and drivetrain are in working condition before towing. If any units are damaged, the vehicle must be towed using a dolly or flatbed tow truck.
- NISSAN recommends that your vehicle be towed with the driving wheels off the ground.
- Always attach safety chains before towing.

TOWING RECOMMENDED BY NISSAN (except for NISMO models)



CAUTION:

For models with a steering wheel lock mechanism: Never secure the steering wheel by pushing the ignition switch to the "OFF" position. This may damage the steering lock mechanism.

Front wheels on the ground:

1. Push the ignition switch to the "ON" position and turn all accessories off.
2. Secure the steering wheel in a straight ahead position with rope or similar device.
3. Move the shift lever to the "N" (Neutral) position.
4. Release the parking brake.
5. Attach safety chains before towing.

Rear wheels on the ground:

NISSAN recommends that towing dollies be used under the rear wheels when towing your vehicle or the vehicle be placed on a flatbed tow truck as illustrated.

NOTE:

If the battery is completely drained the transmission will not manually shift to other positions. (Automatic Transmission models)

CAUTION:

Never tow Automatic Transmission (AT) model with the rear wheels on the ground. Doing so will cause serious and expensive damage to the transmission.

Manual Transmission (MT) model:

If you have to tow a MT vehicle with rear wheel on the ground, perform the following procedures.

CAUTION:

Observe the following restricted towing speeds and distances.

- **Speed: Below 80 km/h (50 MPH)**
- **Distance: Less than 80 km (50 miles)**

1. Push the ignition switch to the "ON" position and turn all accessories off.
2. Move the shift lever to the "N" (Neutral) position.
3. Release the parking brake.
4. Attach safety chains whenever towing.

All four wheels on the ground:

NISSAN recommends that the vehicle be placed on a flatbed tow truck as illustrated.

CAUTION:

Never tow Automatic Transmission (AT) model with all four wheels on the ground. Doing so will cause serious and expensive damage to the drivetrain.

Manual Transmission (MT) model:

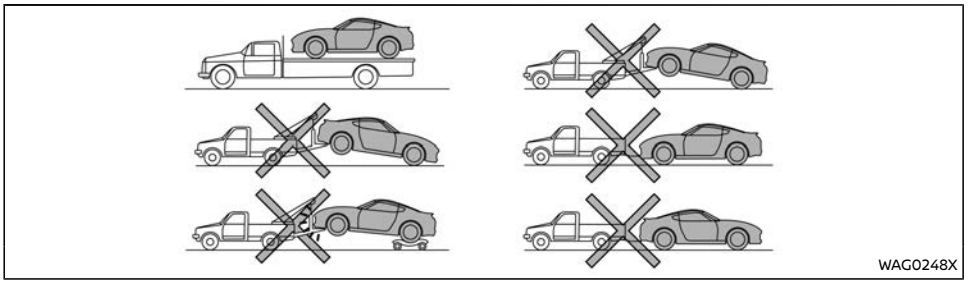
If you have to tow a MT vehicle with all four wheels on the ground, perform the following procedures.

CAUTION:

- **Never tow a Manual Transmission (MT) model backward with all four wheels on the ground.**
- **Observe the following restricted towing speeds and distances.**
  - **— Speed: Below 112 km/h (70 MPH)**
  - **— Distance: Less than 800 km (500 miles)**

1. Push the ignition switch to the "ON" position and turn all accessories off.
2. Move the shift lever to the "N" (Neutral) position.
3. Release the parking brake.

TOWING RECOMMENDED BY NISSAN (NISMO models)

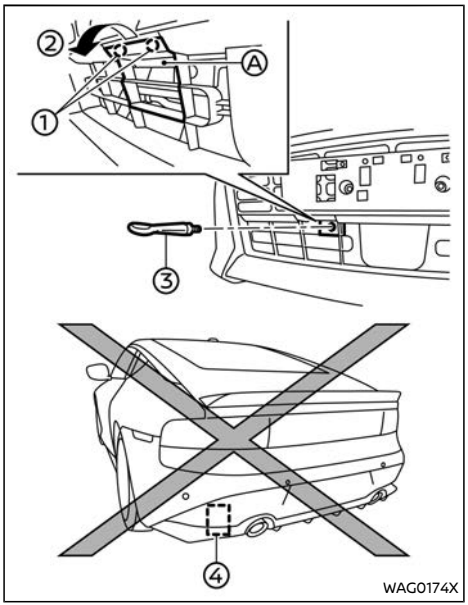


CAUTION:

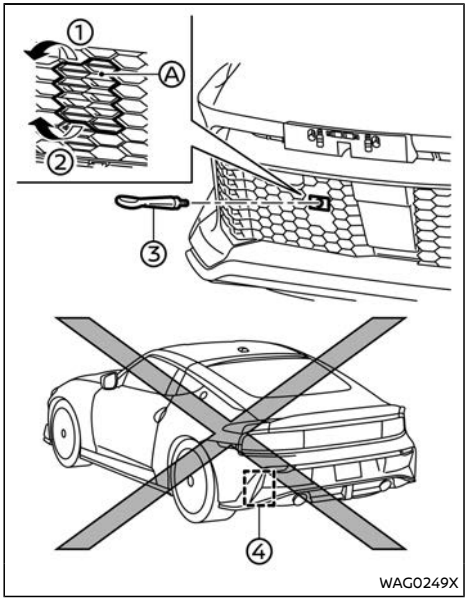
Do not tow NISMO models with any wheel on the ground, or with the front or rear wheels raised, because this may cause damage to the front bumper with an aerodynamic splitter, rear bumper with an aerodynamic diffuser or grille.

NISSAN recommends that you place the vehicle on a flatbed truck as illustrated.

FREEING TRAPPED VEHICLE



Except for NISMO models



NISMO models

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.**
- **Do not pull the vehicle using the rear hook ④. The rear hook is not designed to pull the vehicle out in the event that the vehicle becomes trapped.**
- **Be careful not to damage the grille when towing your vehicle.**

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. Never tow a vehicle using only the recovery hook.
- 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.

Front

Except for NISMO models:

To use the recovery hook:

1. To remove the cover Ⓐ, first unhook the claws ① using a suitable tool wrapped in a cloth, and then pull the upper side of the cover ②.
2. Securely install the recovery hook ③ (stored with jacking tools) to the attaching mount located on the front bumper. If the license plate and/or license plate bracket prevents recovery hook installation, remove it temporarily using a suitable tool.
3. Make sure that the recovery hook is properly secured in its storage location after use and the license plate is properly reinstalled before driving the vehicle.

NISMO models:

To use the recovery hook:

1. Remove the cover Ⓐ pulling the upper side ① and then the lower side ②.
2. Securely install the recovery hook ③ (stored with jacking tools) to the attaching mount located on the front bumper. If the license plate and/or license plate bracket prevents recovery hook installation, remove it temporarily using a suitable tool.
3. Make sure that the recovery hook is properly secured in its storage location after use and the license plate is properly reinstalled before driving the vehicle.

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:

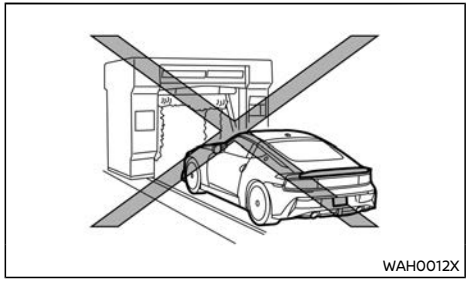
- **Do not concentrate water spray directly on the parking sensors (sonar) on the bumper as this will result in damage to the sensors.**
- **Do not use pressure washers capable of spraying water over 8,274 kPa (1,200 psi) to wash your vehicle. Use of high-pressure washers over 8,274 kPa (1,200 psi) can 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 engine compartment with water or by directly spraying wax, car polish, engine degreaser, etc. Doing so may cause a failure in engine starting or a malfunction, or a short circuit in the electrical parts. When using water or these products, apply them to a cloth and then wipe the engine compartment with it.**
- **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.**
- **For models with decorative sticker, observe the following:**
  - **— Wash dirt off the vehicle with a wet sponge and plenty of water. Then wipe the vehicle gently using a soft cloth.**
  - **— Do not apply direct water pressure, such as high-pressure sprayer, on the vehicle body around the sticker. This may cause the sticker edges to peel away or come off from the vehicle.**
  - **— 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.

NISMO models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CAUTION:

Do not use an automatic car wash for NISMO models. The rear spoiler and the license plate may be damaged.

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 stores. It is recommended that you visit a NISSAN dealer for these products.

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.**
- **NISSAN does not recommend to apply water repellent on mirror.**

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.

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, radio antenna elements or rear window defogger elements.

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.

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.**
- **Never use chloride solutions for cleaning aluminum decoratives (if equipped), damage may occur.**

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.

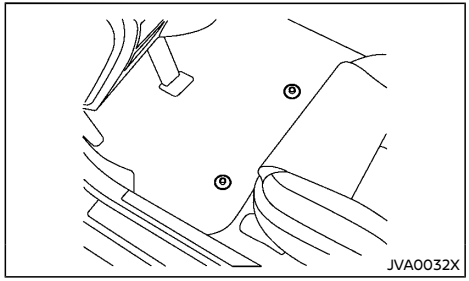
Carefully read and follow the manufacturer's instructions before using air fresheners.

FLOOR MATS

NISSAN recommends the use of genuine NISSAN 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 at all times. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

Floor mat positioning aid



Example

This vehicle includes a front floor mat bracket 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 through the floor mat grommet hole while centering the mat in the foot area.

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 radio antenna elements or 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.1-8).)

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 THE 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.**
- **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

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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.

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.

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 or inspections can be done by yourself, a qualified technician, or if you prefer, a NISSAN dealer.

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) transmitter components (if so equipped):

Replace the TPMS transmitter grommet seal, valve core and cap 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. Check that the lever (if so equipped) or the pedal (if so equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.

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.

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.

Power steering fluid level and lines*:

Check the level when the fluid is cold, with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Windshield 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 (Automatic Transmission model) or the shift lever to the "N" (Neutral) position (Manual Transmission model).**
- **Be sure the ignition switch is in the "LOCK" position when performing any parts replacement or repairs.**
- **Do not work under the hood while the engine is hot. Always turn off the engine and wait until it cools down.**
- **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 any jewelry, such as rings, watches, etc. before working 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 by a jack.**
- **Keep smoking materials, flame and sparks away from fuel and the battery.**
- **Never connect or disconnect either the battery or any transistorized component connector while the ignition switch is in the "ON" position.**
- **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.**
- **Always wear eye protection whenever you work on your vehicle.**
- **Never leave the engine or the transmission related component harness connector disconnected while the ignition switch is in the "ON" position.**
- **Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant, and/or other vehicle fluids can hurt the environment. Always conform to local regulations for disposal**

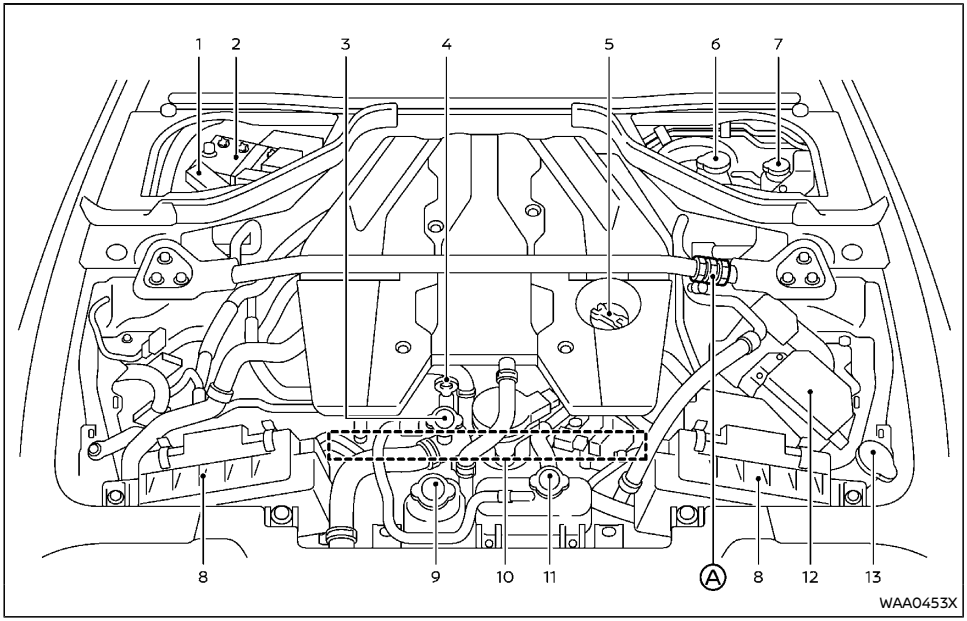
of vehicle fluids.

This "8. Maintenance and do-it-yourself" section provides 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

VR30DDTT ENGINE MODEL



1. Fuse/fusible link holder*
2. Battery*
3. Radiator filler cap
4. Engine oil dipstick
5. Engine oil filler cap
6. Brake fluid reservoir*
7. Clutch fluid reservoir* (Manual Transmission model)
8. Air cleaner
9. Intercooler cooling reservoir
10. Drive belt location
11. Engine coolant reservoir
12. Fuse/fusible link holder
13. Window washer fluid reservoir

*: The layout illustrated is for the Left-Hand Drive (LHD) model. On the Right-Hand Drive (RHD) model, these components

are located on the opposite side.

Do not tamper with the strut tower bar adjustment Ⓐ. The strut tower bar has been adjusted to the most suitable position at the factory.

CAUTION:

Tampering with the strut tower bar adjustment may cause a noise while driving or damage to the hood or engine.

NOTE:

Your vehicle may not be equipped with an engine cover.

WARNING:

- **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. 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:**

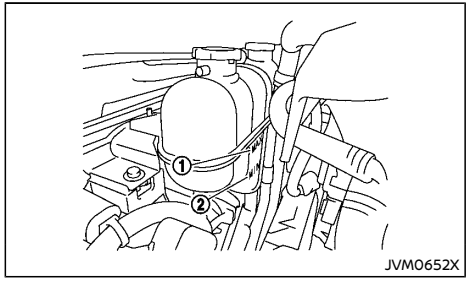
Outside temperature down to		Engine coolant (concentrated)	Demineralized or distilled water
°C	°F		
–15	5	30%	70%
–35	–30	50%	50%

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



Check the coolant level in the reservoir when the engine is running and after it reaches normal operating temperature. If the coolant level is below the MIN level ②, add coolant up to the MAX level ①. If the reservoir is empty, check the coolant level in the radiator **when the engine is cold**. If there is insufficient coolant in

the radiator, fill the radiator with coolant up to the radiator filler cap above the radiator upper hose opening and also add it to the reservoir up to the MAX level ①. Put on the filler cap above the radiator upper hose and with the reservoir cap open, start the engine. Run the engine until it reaches normal operating temperature. Add coolant up to the MAX level ①. Tighten the cap securely after adding engine coolant.

CAUTION:

If the cooling system frequently requires coolant, have it checked by a NISSAN dealer.

CHANGING ENGINE COOLANT

Contact a NISSAN dealer if replacement is required.

Major engine cooling system repair should be performed by a NISSAN dealer. The service procedures can be found in the appropriate 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 cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.**
- **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 reach of children and pets.**

Engine coolant must be disposed of properly. Check your local regulations.

WARNING:

- **Never remove the coolant reservoir cap when the engine is hot. Serious burns could be caused by high-pressure fluid escaping from the coolant reservoir. Wait until the engine cools down.**
- **Coolant is poisonous and should be stored carefully in marked containers out of the reach of children.**

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:

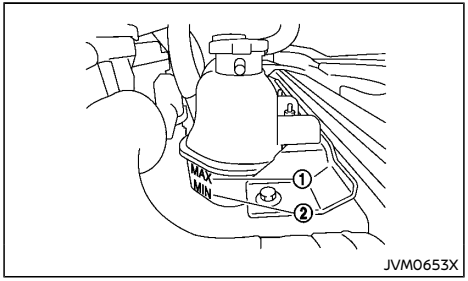
- **Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the intercooler.**
- **When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in its quality with the proper mixture ratio. Examples 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



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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.

If the intercooler cooling system frequently requires coolant, have it checked by a NISSAN dealer.

CHANGING INTERCOOLER COOLANT

Intercooler coolant is maintenance-free.

If replacement is required, NISSAN recommends you visit a NISSAN dealer for this service.

Improper servicing can result in intercooler overheating.

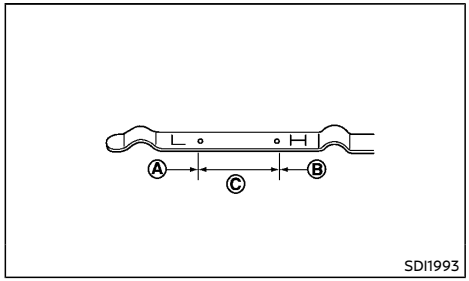
WARNING:

- **To avoid the danger of being scalded, never change the coolant when the engine is hot.**
- **Never remove the cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the intercooler 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



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1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and warm it up until the engine temperature reaches the normal operating temperature (approximately 5 minutes).
3. Stop the engine.
4. Wait at least 15 minutes for the engine oil to drain back to the oil pan.
5. Remove the dipstick and wipe it clean.
6. Reinsert the dipstick all the way.
7. Remove the dipstick and check the oil level. It should be within the range Ⓒ.
8. If the oil level is below Ⓐ, remove the oil filler cap and pour the recommended oil into the opening. Do not overfill Ⓑ.
9. Recheck the oil level with the dipstick.

CAUTION:

- **The oil level should be checked regularly. Operating your vehicle with an insufficient amount of oil can damage the engine, and such damage is not covered**

by the warranty.

- **It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.**

NOTE:

It is recommended you visit a NISSAN dealer before any performance driving on closed circuit tracks. Obey all traffic laws when on public roads.

If driving on a circuit or closed track, set the oil amount range of the oil level gauge should be Hi to Hi - 9 mm.

CHANGING ENGINE OIL AND OIL 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.**

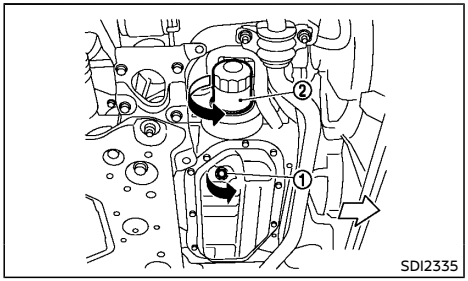
CAUTION:

Waste oil must be disposed of properly. Check your local regulations.

Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and warm it up until the engine temperature reaches the normal operating temperature (approximately 5 minutes).
3. Stop the engine.
4. Wait at least 15 minutes for the engine oil to drain back to the oil pan.

Engine oil and filter



1. Place a large drain pan under the drain plug.
2. Remove the oil filler cap.
3. Remove the drain plug ① with a wrench and completely drain the oil.

   (Perform steps 4 to 7 only when the engine oil filter change is needed.)
4. Loosen the oil filter ② 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 rubber gasket 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:
   14.7 to 20.6 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:
   30 to 37 N·m
   (3.1 to 3.7 kg-m, 22 to 27 ft-lb)

   Do not use excessive force.
9. Refill engine with 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 15 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

After operation

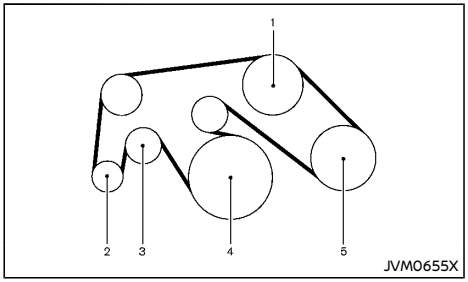
1. Install the engine undercover into position as the following steps.
   a. Pull the center of the small plastic clip out.
   b. Hold the engine undercover into position.
   c. Insert the clip through the undercover into the hole in the frame, then push the center of the clip in to lock the clip in place.
   d. Install the bolts that hold the undercover in place. Be careful not to strip the bolts or over-tighten them.
2. Lower the vehicle carefully to the ground.
3. Dispose of waste oil and filter properly.

PROTECT ENVIRONMENT

It is illegal to pollute drains, watercourses and soil. Use authorized waste collection facilities, including civil amenity sites and garages providing facilities for disposal of used oil and used oil filters. If in doubt, contact your local authority for advice on disposal.

The regulations concerning the pollution of the environment will vary from country to country.

DRIVE BELTS



1. Water pump
2. Alternator
3. Drive belt auto-tensioner
4. Crankshaft pulley
5. Air conditioner compressor

Be sure the ignition switch is in the "LOCK" position.

Visually inspect belt for signs of unusual wear, cuts, fraying or looseness. Check the condition regularly. If the belt is in poor condition or loose, have it replaced or adjusted by a NISSAN dealer.

SPARK PLUGS

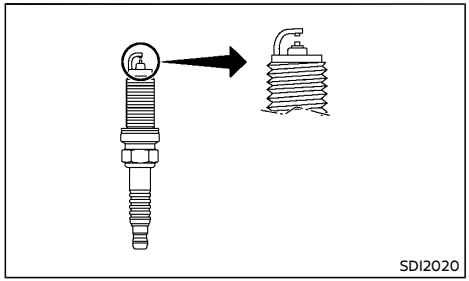
WARNING:

Be sure the engine and ignition switch are off and that the parking brake is applied.

Replace the spark plugs according to the maintenance log shown in a separate maintenance booklet.

If replacement is required, contact a NISSAN dealer.

IRIDIUM-TIPPED SPARK PLUGS

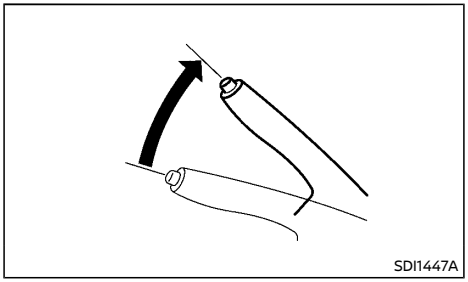


It is not necessary to replace the iridium-tipped spark plugs as frequently as the conventional type of spark plugs. These spark plugs are designed to last much longer than the conventional type of spark plugs.

CAUTION:

- **Do not reuse the iridium-tipped spark plugs by cleaning or re-gapping.**
- **Always replace with the recommended iridium-tipped spark plugs.**

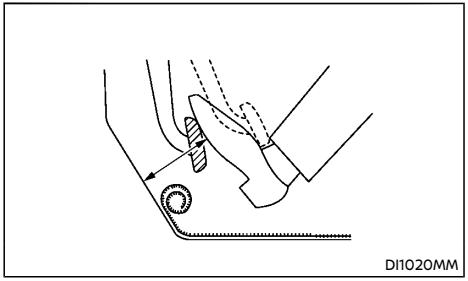
CHECKING PARKING BRAKE



From the released position, pull the parking brake lever slowly and firmly. If the number of clicks is out of the range listed, see a NISSAN dealer.

6 to 7 clicks
Pulling force 196 N (20 kg, 44 lb)

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)

Except for NISMO models:

LHD model	RHD model
120 mm (4.7 in) or more	125 mm (4.9 in) or more

NISMO models:

LHD model	RHD model
115 mm (4.5 in) or more	120 mm (4.7 in) or more

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes. The disc-type brakes self-adjust every time the foot brake pedal is applied.

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 indicator warning 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 BOOSTER

Check the brake booster function as follows:

1. With the engine off, depress and release the foot brake pedal several times. When the foot brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the foot brake pedal, start the engine. The pedal height should drop a little.
3. With the foot brake pedal depressed, stop the engine. Keep the pedal depressed for about 30 seconds. The pedal height should not change.
4. Run the engine for 1 minute without depressing the foot brake pedal, then turn it off. Depress the foot brake pedal several times. The pedal travel distance will decrease gradually with each depression as the vacuum is released from the booster.

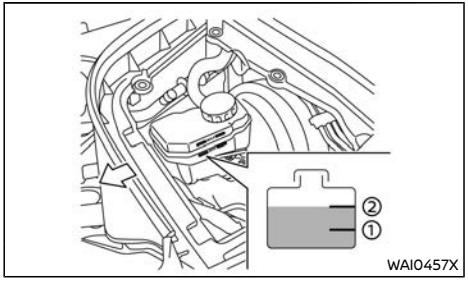
If the brakes do not operate properly, have the brakes checked by a NISSAN dealer.

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 brake fluid on painted surfaces. This will damage the paint. If brake fluid is spilled, wash it off with plenty of water immediately.



Check the fluid level in the reservoir. If the brake fluid is below the MIN line ①, the brake warning light will illuminate. Add brake fluid up to the MAX line ②. (See "Recommended fluids/lubricants and capacities" (P.9-2) for the recommended types of brake fluid.)

If the brake fluid must be added frequently, the brake system should be thoroughly checked by a NISSAN dealer.

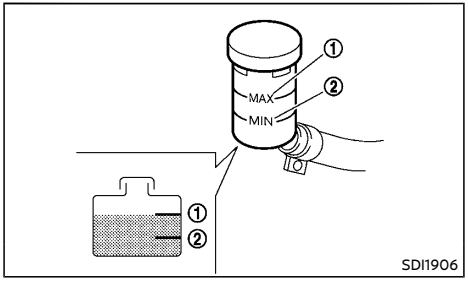
CLUTCH FLUID (Manual Transmission model)

WARNING:

- **Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the clutch system.**
- **Clutch fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

CAUTION:

Do not spill the clutch fluid on painted surfaces. This will damage the paint. If clutch fluid is spilled, wash it off with plenty of water immediately.



Check the fluid level in the reservoir. If the fluid level is below the MIN line ②, add fluid up to the MAX line ①. (See "Recommended fluids/lubricants and capacities" (P.9-2) for the recommended types of fluid.)

If the fluid must be added frequently, the clutch system should be checked by a NISSAN dealer.

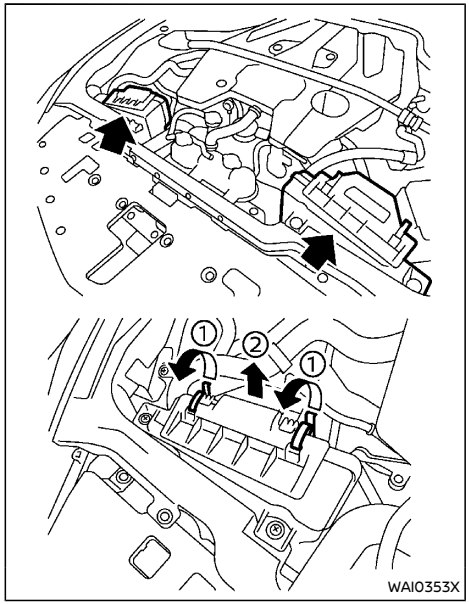
AUTOMATIC TRANSMISSION FLUID (ATF) (Automatic Transmission model)

Contact a NISSAN dealer if checking or replacement is required.

CAUTION:

- **Use only Genuine NISSAN Matic P ATF. Do not mix with other fluids.**
- **Using automatic transmission fluid that is not equivalent to Genuine NISSAN Matic P ATF may damage the transmission or impact transmission durability. Damage caused by the use of fluid other than as recommended is not covered under the warranty.**

AIR CLEANER FILTER



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.**

To remove the filter, release the lock pins ① and pull the unit upward ②.

The viscous paper type filter element should not be cleaned and reused. The dry paper type filter element may be cleaned and reused. Replace the air filter according to the maintenance log 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.

WINDSHIELD WIPER BLADES

Cleaning

If the windshield does not become clear after using the windshield washer or if the wiper blades chatter when operating the windshield wipers, wax or other materials may be on the windshield and/or wiper blades.

Clean the outside of the windshield surface with a washer solution or mild detergent. Your windshield is clean if beads do not form when rinsing with water.

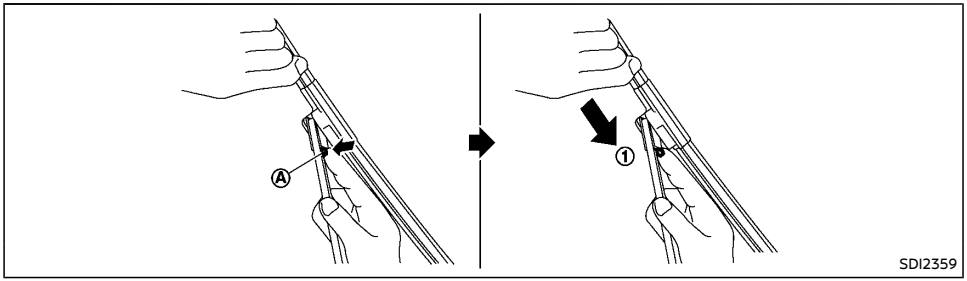
Clean the blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Rinse the blade with water. If your windshield is still not clear after cleaning the blades and using the wipers, replace the blades.

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.

WINDOW WASHER FLUID

Replacing

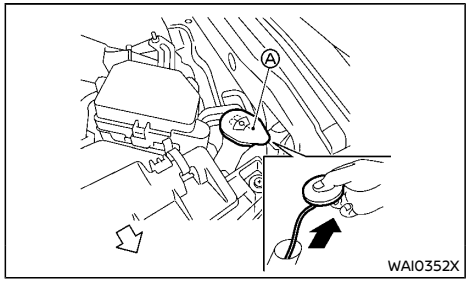


Replace the wiper blades if they are worn.

1. Pull the wiper arm.
2. Push and hold the release tab Ⓐ, and then move the wiper blade down ① the wiper arm to remove.
3. Remove the wiper blade.
4. Insert the new wiper blade onto the wiper arm until it clicks into place.

CAUTION:

- **After wiper blade replacement, return the wiper arm to its original position. Otherwise the wiper arm or the engine hood may be scratched and may cause damage.**
- **Worn windshield wiper blades can damage the windshield and impair driver vision.**



WARNING:

Anti-freeze is poisonous and should be stored carefully in marked containers out of the reach of children.

Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

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.

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

VEHICLE BATTERY

WARNING:

Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.

CAUTION:

When the battery cable is removed from the battery terminal, do not close either of front doors. The automatic window adjusting function will not work, and the side roof panel may be damaged.

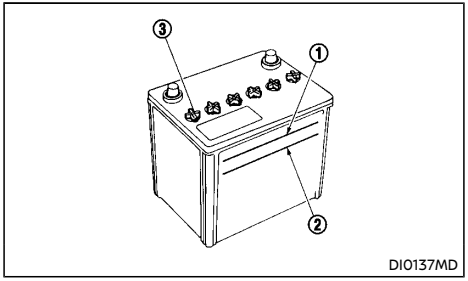
To disconnect the negative (–) battery terminal, perform the procedure in the following order. Otherwise, the window and the side roof panel may contact and be damaged.

1. Close the windows.
2. Open the hood.
3. Close and lock all the doors.
4. Disconnect the negative (–) battery terminal.
5. Securely close the hood.

To connect the negative (–) battery terminal, perform the procedure in the following order. Otherwise, the window and the side roof panel may contact and be damaged.

1. Unlock and open the driver side door. Do not close the door.
2. Open the hood.
3. Connect the negative (–) battery terminal. Then close the hood.
4. Fully open the driver side door window.
5. Close the driver side door and the window.

Checking battery fluid level



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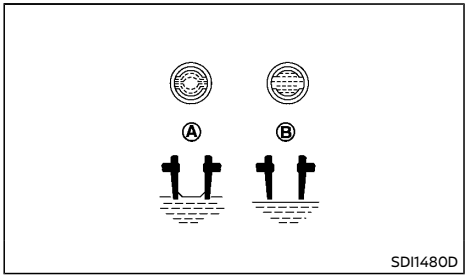
Check the fluid level in each cell. The battery fluid level should be between the UPPER LEVEL ① and LOWER LEVEL ② lines.

If it is necessary to add fluid, add only demineralized/distilled water to bring the level to the indicator in each filler opening. Do not overfill.

1. Remove the cell plugs ③ using a suitable tool.



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2. Add demineralized/distilled water up to the UPPER LEVEL ① line.

   If the side of the battery is not clear, check the distilled water level by looking directly above the cell; the condition Ⓐ indicates OK and the condition Ⓑ needs more to be added.
3. Replace and tighten the cell plugs.

- Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.
- Clean the battery with a firmly wrung out moist cloth.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for more than 30 days, disconnect the negative (–) battery terminal cable to prevent battery discharge.

Jump starting

If jump starting is necessary, see “Jump starting” (P.6-11). If the engine does not start by jump starting or the battery does not charge, the battery may have to be replaced. Contact a NISSAN dealer for replacing the battery.

INTELLIGENT KEY BATTERY

Battery replacement

WARNING:

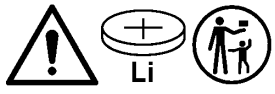
Do not ingest the battery, Chemical Burn Hazard

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:



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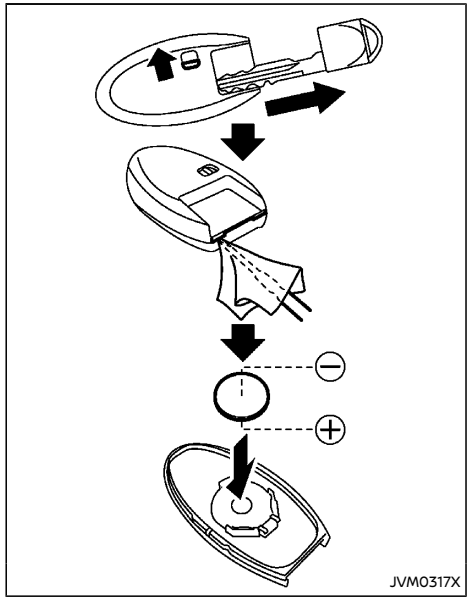
- **Button/Coin Cell Batteries are Hazardous (new or used). Keep away from Children.**
- **Button/Coin Cell Batteries can cause severe or fatal injuries in 2 hours or less if they are swallowed or placed inside any part of the body.**
- **If you suspect your child has swallowed or inserted a button/coin 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.

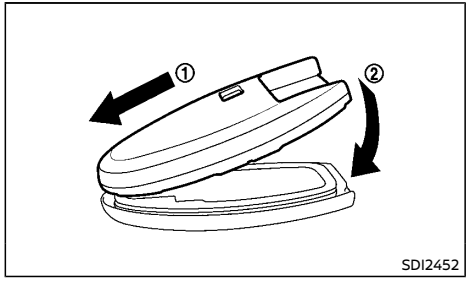
CAUTION:

- **Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.**
- **Do not exposed to excessive heat such as sunshine, fire or the like.**
- **Do not give mechanically crushing or cutting of a battery.**
- **Do not subjected to extremely low air pressure at high altitude.**



To replace the battery:

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key. (See "Mechanical key" (P.3-2).)
2. Insert a flat-blade screwdriver wrapped with a cloth into the slit of the corner and twist it to separate the upper part from the lower part.
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.
   - Make sure that the ⊕ side faces the bottom of the case.

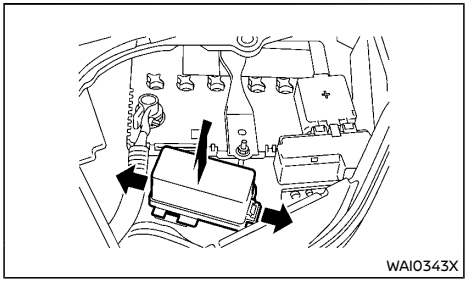


4. Align the tips of the upper and lower parts ①, and then push them together until it is securely closed ②.
5. Operate the buttons to check its operation.

See a NISSAN dealer if you need assistance for replacement.

FUSES

ENGINE COMPARTMENT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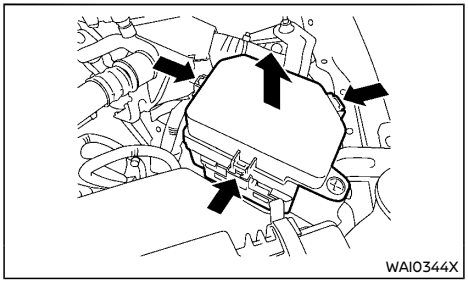
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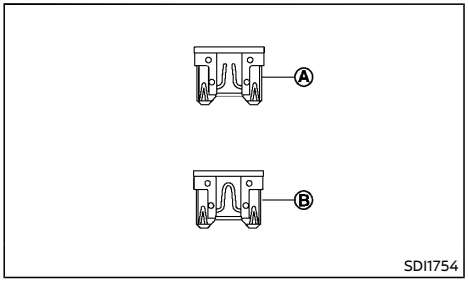
CAUTION:

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 cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is pushed to the "OFF" or "LOCK" position and the headlight switch is in the "OFF" (if equipped) or "AUTO" position and the headlights are OFF.
2. Open the engine hood.
3. Remove the fuse/fusible link cover.
4. Locate the fuse which needs to be replaced.



SDI1754

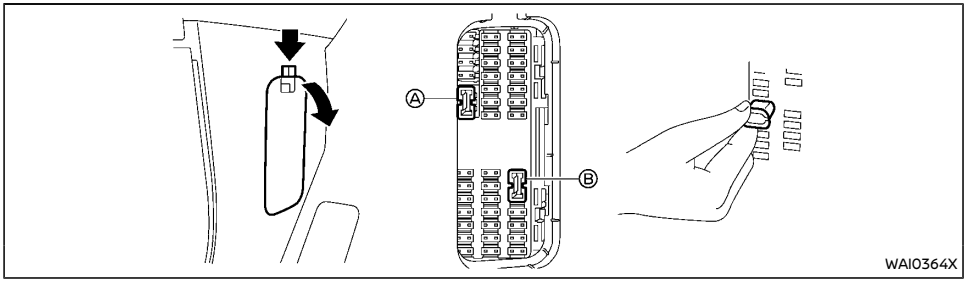
5. Remove the fuse using the fuse puller located in the passenger compartment fuse box.
6. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ. Spare fuses are stored in the passenger compartment fuse box.

   If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by a NISSAN dealer.

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.

PASSENGER COMPARTMENT

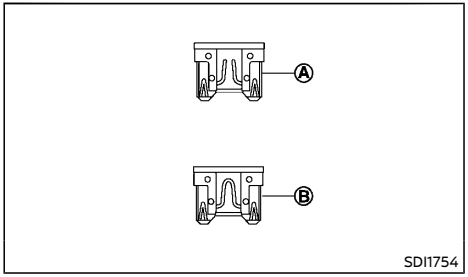


CAUTION:

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 cause a fire.

If any electrical equipment does not operate, check for an open fuse.

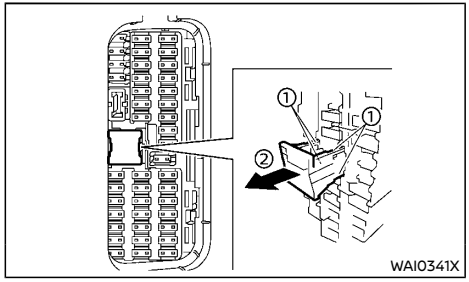
1. Be sure the ignition switch is pushed to the "OFF" or "LOCK" position and the headlight switch is in the "OFF" (if equipped) or "AUTO" position and the headlights are OFF.
2. Remove the fuse box cover.
3. Locate the fuse which needs to be replaced.
4. Remove the fuse using the fuse puller Ⓐ (left-hand drive model) or Ⓑ (right-hand drive model).



5. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ. Spare fuses are stored in the fuse box.

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by a NISSAN dealer.

Extended storage fuse switch (if equipped)



To reduce battery drain, the extended storage fuse switch comes from the factory switched off. Prior to delivery of your vehicle, the switch is pushed in (switched on) and should always remain on.

If the extended storage fuse switch is not pushed in (switched on), the "Shipping Mode On Push Storage Fuse" warning may appear in the vehicle information display. See "21. Shipping Mode On Push Storage Fuse warning" (P.2-28).

If any electrical equipment does not operate, remove the extended storage fuse switch and check for an open fuse.

NOTE:

If the extended storage fuse switch malfunctions, or if the fuse is open, it is not necessary to replace the switch. In this case, remove the extended storage fuse switch and replace it with a new fuse of the same rating.

How to remove the extended storage fuse switch:

1. To remove the extended storage fuse switch, be sure the ignition switch is in the "OFF" or "LOCK" position.
2. Be sure the headlights are off. (See "Headlight switch" (P.2-35).)
3. Remove the fuse box cover.
4. Pinch the locking tabs ① found on each side of the storage fuse switch.
5. Pull the storage fuse switch straight out from the fuse box ②.

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, contact a NISSAN dealer.

EXTERIOR LIGHTS

Item	Wattage (W)
Headlight*	LED
Front turn signal light*	LED
Clearance light*	LED
Daytime running light*	LED
Front side marker light* (if equipped)	LED
Side turn signal light*	LED
Rear combination light*	
Turn signal light*	LED
Stop/Tail light*	LED
Reverse light*	LED
Rear side marker light* (if equipped)	LED
Rear fog light* (if equipped)	LED
High-mounted stop light*	LED
License plate light*	LED

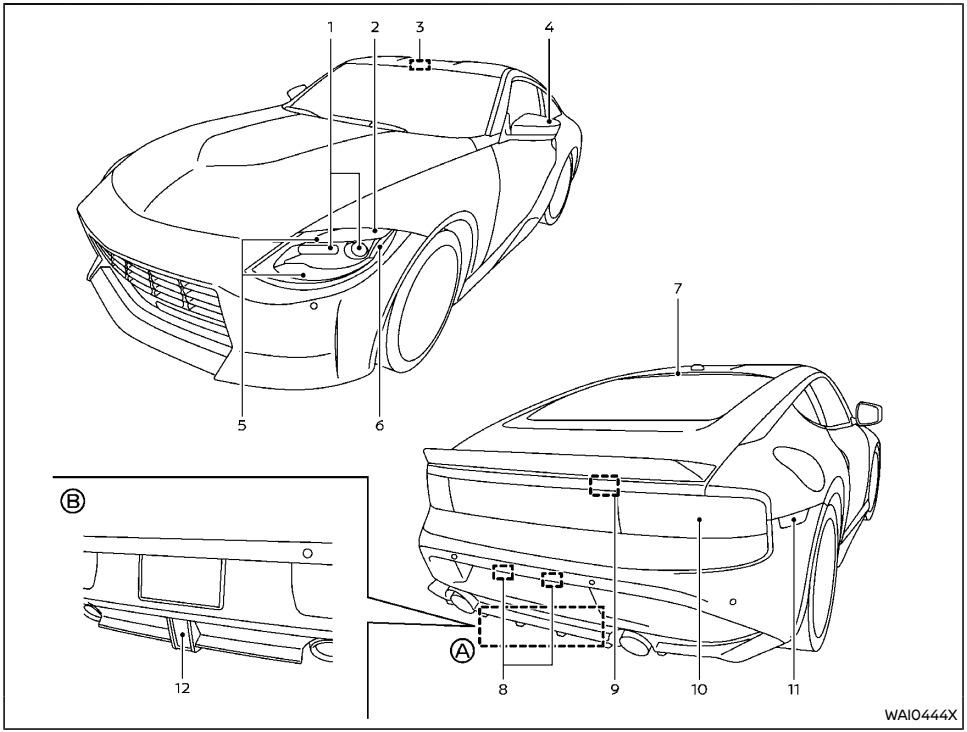
*: See a NISSAN dealer for replacement.

INTERIOR LIGHTS

Item	Wattage (W)
Map light	8
Vanity mirror light*	1.8
Cargo light	5
Glove box light* (if equipped)	1.4

*: See a NISSAN dealer for replacement.

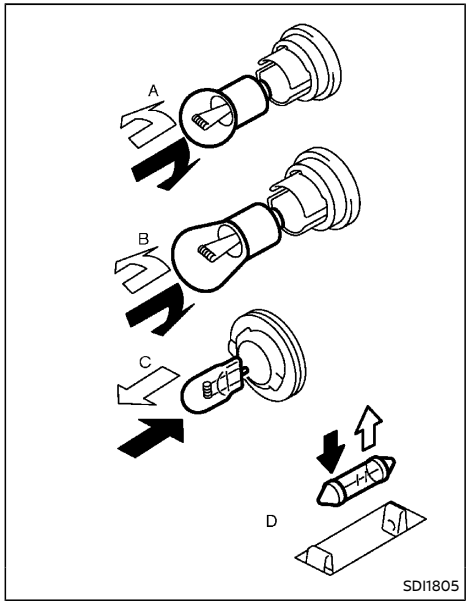
LIGHT LOCATIONS



1. Headlight (high- and low-beam)
2. Front turn signal light
3. Map light
4. Side turn signal light
5. Daytime running light
6. Front side marker light*
7. High-mounted stop light
8. License plate light
9. Cargo room light
10. Rear combination light (Turn signal/Stop/Tail/Reverse/Rear fog light*)
11. Rear side marker light*
12. Rear fog light

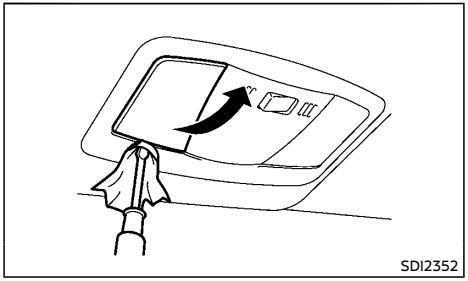
Ⓐ Except for NISMO models
Ⓑ NISMO models
*: if equipped

Replacement procedures

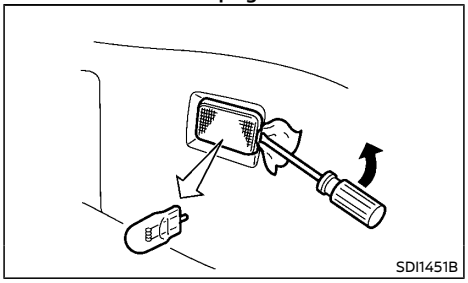


: REMOVE
: INSTALL

All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens and/or cover.



Map light



Cargo light

If you have a flat tire, see "Flat tire" (P.6-2).

TIRE PRESSURE MONITORING SYSTEM (TPMS)

The Tire Pressure Monitoring System (TPMS) monitors tire pressure of all tires except the spare tire (if equipped). When the low tire pressure warning light is lit and the "Low Tyre Pressure" warning appears on the vehicle information display, 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 about the TPMS, see "Tire Pressure Monitoring System (TPMS)" (P.5-5).

For additional information, see "Low tire pressure warning light" (P.2-14).

TIRE INFLATION PRESSURE

Periodically check the pressure of the tires, including the spare tire (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 (for the Middle East and Mexico)

TPMS also 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.5-5) about the TPMS with tire inflation indicator.)

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 brand, construction and tread pattern on all four wheels, and the same sizes as the original tires.

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 19-inch size tires. Doing so will cause damage to the vehicle.

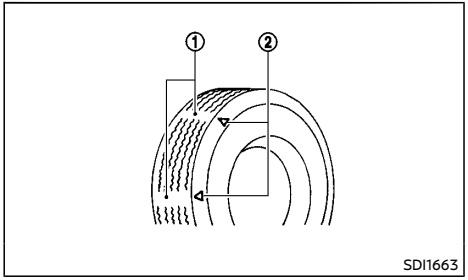
TIRE ROTATION

WARNING:

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.

Tires cannot be rotated on this vehicle because the front tires are a different size and/or wheel rim offset than the rear tires.

TIRE WEAR AND DAMAGE



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 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.9-7) 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.

WARNING:

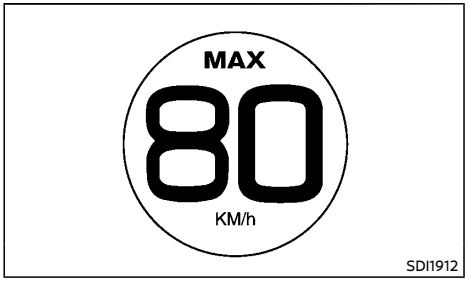
- **After a tire or a wheel is replaced, the TPMS must be reset (model with TPMS reset function). (See "Tire Pressure Monitoring System (TPMS)" (P.5-5) for details about the resetting procedure.)**
- **Since the spare tire (if equipped) is not equipped with the TPMS, when a spare tire is mounted or a 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 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.**
- **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.**

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 (T-type) spare tire (if equipped)



Spare tire label (if equipped)

Since the spare tire is not equipped with the Tire Pressure Monitoring System (TPMS), when a spare tire is mounted, the TPMS will not function.

Observe the following precautions if the T-type spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

CAUTION:

- **The T-type spare tire should be used only for emergency. It should be replaced by the standard tire at the first opportunity.**
- **Drive carefully while the T-type 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 bar, 60 psi).**
- **Do not drive your vehicle at speeds faster than 80 km/h (50 MPH).**
- **Do not use tire chains on a T-type spare tire. Tire chains will not fit properly on the T-type spare tire and may cause damage to the vehicle.**
- **Tire tread of the T-type spare tire will wear at a faster rate than the original tire. Replace the T-type spare tire as soon as the tread wear indicators appear.**
- **Because the T-type 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 T-type spare tire on other vehicles.**
- **Do not use more than one T-type spare tire at the same time.**

EMERGENCY TIRE PUNCTURE REPAIR KIT (if equipped)

The emergency tire puncture repair kit (Emergency Tire Sealant) is supplied with the vehicle instead of a spare tire. It can be used to temporarily repair minor tire punctures.

If possible, have the vehicle towed to a facility that can repair or replace the flat tire. Using the emergency tire puncture repair kit may cause a malfunction of the tire pressure sensor and cause the low tire pressure warning light to illuminate.

See “Flat tire” (P.6-2) 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) Metric Measure	US Measure	Imperial Measure	Recommended Fluids/Lubricants
Fuel			62L	16-3/8 gal	13-5/8 gal	· See "Fuel information" (P.9-4).
Engine oil[*1] Drain and refill [*1]: For additional information, see "Changing engine oil and oil filter" (P.8-9).	With oil filter change		5.3 L	5-5/8 qt	4-5/8 qt	**For New Zealand:** · 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). **Except for New Zealand:** · 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).
	Without oil filter change		5.1 L	5-3/8 qt	4-1/2 qt	
Engine coolant	With reservoir	Automatic Transmission (AT) model	9.0 L	9-1/2 qt	7-7/8 qt	· 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.
		Manual Transmission (MT) model	8.9 L	9-3/8 qt	7-7/8 qt	
		NISMO models	10.4 L	11 qt	9-1/8 qt	
	Reservoir		0.6 L	5/8 qt	1/2 qt	
Intercooler coolant	With reservoir	Automatic Transmission (AT) model	2.9 L	3-1/8 qt	2-1/2 qt	
		Manual Transmission (MT) model	2.9 L	3-1/8 qt	2-1/2 qt	
		NISMO models	3.4 L	3-5/8 qt	3 qt	
	Reservoir		0.2 L	1/4 qt	1/8 qt	
Automatic Transmission Fluid (ATF)			—	—	—	· Genuine NISSAN Matic P ATF · NISSAN recommends using Genuine NISSAN Matic P ATF ONLY in NISSAN automatic transmissions. Do not mix with other fluids. Using fluids that are not equivalent to Genuine NISSAN Matic P ATF may damage the automatic transmission. Damage caused by the use of fluids other than as recommended is not covered under the warranty.
Manual Transmission (MT) gear oil			—	—	—	· Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi 75W-85 · If Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi is not available, API GL-4, Viscosity SAE 75W-85 may be used as a temporary replacement. However, use Genuine NISSAN Manual Transmission Fluid (MTF) HQ Multi as soon as it is available.
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 R35 Special II[*3] or equivalent DOT4 [*3]: Never mix different types of fluids. [*3]: NISSAN recommends Genuine NISSAN Brake Fluid R35 Special II available at a NISSAN dealer.
Clutch fluid						
Differential gear oil			—	—	—	· Genuine NISSAN Differential Oil Hypoid LSD GL-5 80W-90 (mineral oil) or equivalent

Fluid type	Capacity (approximate)			Recommended Fluids/Lubricants
	Metric Measure	US Measure	Imperial Measure	
Multi-purpose grease	—	—	—	· NLGI No. 2 (Lithium soap base)
Air conditioner system refrigerant	—	—	—	**For Mexico:** · HFO-1234yf (R-1234yf) **Except for Mexico:** · HFC-134a (R-134a)
Air conditioner system lubricant	—	—	—	**For Mexico:** · Compressor Oil SP-A2 (PAG) **Except for Mexico:** · Compressor Oil SP-10A (PAG)

FUEL INFORMATION

Model with three-way catalyst

CAUTION:

- **Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**

For Brunei, Fiji, Bangladesh, Sri Lanka, Lebanon, Jordan and Philippines (except for NISMO models): Use UNLEADED PREMIUM gasoline with an octane rating of at least 95 (RON).

For Macau, Australia, New Zealand, Philippines (NISMO models) and the Middle East: Use UNLEADED PREMIUM gasoline with an octane rating of at least 98 (RON).

For Mexico: Use UNLEADED PREMIUM gasoline with an octane rating of at least 93 AKI (Anti-Knock Index) number (Research octane number 98).

If unleaded premium gasoline is not used, UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON) (except for Mexico) /87 AKI (Anti-Knock Index) number (Research octane number 91) (for Mexico) or above may be temporarily used, but only under the following precautions:

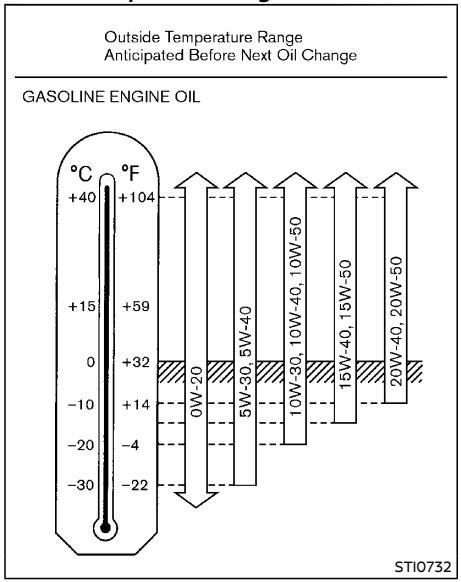
- **Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.**
- **Avoid full throttle driving and abrupt acceleration.**

Use unleaded premium gasoline for maximum vehicle performance.

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 Mexico: HFO-1234yf (R-1234yf)
  - Except for Mexico: HFC-134a (R-134a)
- Compressor Oil
  - For Mexico: SP-A2 (PAG)
  - Except for Mexico: SP-10A (PAG)

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.

For MEXICO:

Air conditioner system should only be serviced by trained and certified technicians to ensure proper and safe operation (SAE J2845). Only new and SAE J2842 certified evaporator(s) or inner condenser (if equipped) shall be used as replacement parts.

A damaged or leaking air conditioning evaporator or inner condenser (if equipped) shall never be repaired or replaced with one re-

moved from a used or salvaged vehicle. To replace a damaged or leaking evaporator or inner condenser (if equipped), use only new and SAE J2842 certified evaporator(s). It is recommended that you visit a NISSAN dealer when servicing your air conditioner system.

ENGINE

Engine Model		VR30DDTT
Type		Gasoline, 4-cycle, DOHC
Cylinder arrangement		6-cylinder, V-block, Slanted at 60°
Bore × Stroke	mm (in)	86.0 × 86.0 (3.386 × 3.386)
Displacement	cm^3 (cu in)	2,997 (182.88)
Idle speed at the "N" (Neutral) position	rpm	650±50
Ignition timing (B.T.D.C.) at the "N" (Neutral) position		8°±2
Spark plugs	Standard	DILKAR8K8G
Spark plug gap	mm (in)	0.8 (0.031)
Camshaft operation		Timing chain

TECHNICAL CHARACTERISTICS (for Gulf Standard models)

Engine model			VR30DDTT
Maximum net power	kW/rpm		298/6,400*2
			282/6,000*3
		NISMO models	309/6,400
Maximum net torque	N·m/rpm		475/1,600 to 5,600*2
			475/1,600 to 4,400*3
		NISMO models	520/2,000 to 5,200
Maximum speed*1	km/h (MPH)		250 (155)*2*3
		NISMO models	279 (173)

*1: Gulf Standard 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.

*2: For the Middle East.

*3: For Philippines.

TIRES AND WHEELS

		Standard	Spare*1
Tire size		Front 255/40 R19 96W Rear 275/35 R19 96W	T145/70 R18 107M*2
	NISMO models	Front 255/40 R19 100Y XL Rear 285/35 R19 103Y XL	

		Size	Offset mm (in)
Road wheel		Front 19 × 9.5J Rear 19 × 10J	40 (1.57) 30 (1.18)
	NISMO models	Front 19 × 10J Rear 19 × 10.5J	33 (1.30) 23 (0.91)
Spare*2		18 × 4T	0 (0)

*1: For model without the spare tire, an emergency tire puncture repair kit is supplied.

*2: If equipped

DIMENSIONS

mm (in)

Overall length	4,380 (172.4) 4,410 (173.6)*
Overall width	1,845 (72.6) 1,870 (73.6)*
Overall height	1,315 (51.8)
Front tread	1,555 (61.2) 1,570 (61.8)*
Rear tread	1,565 (61.6) 1,580 (62.2)*
Wheelbase	2,550 (100.4)

*: NISMO models

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.

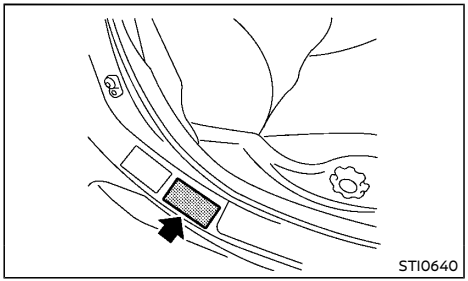
The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, the vehicle specification may differ.

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

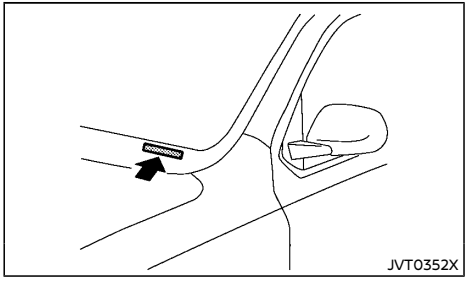
It is prohibited to cover, paint, weld, cut, drill, alter or remove Vehicle Identification Number (VIN).

VEHICLE IDENTIFICATION LABEL (if equipped)



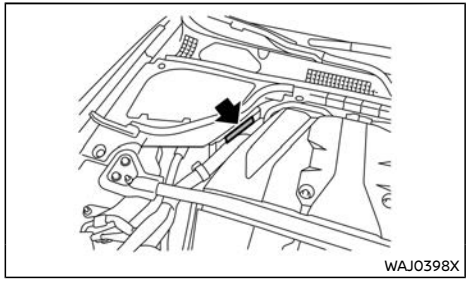
The vehicle identification label is affixed as shown.

VEHICLE IDENTIFICATION NUMBER (VIN) PLATE (if equipped)



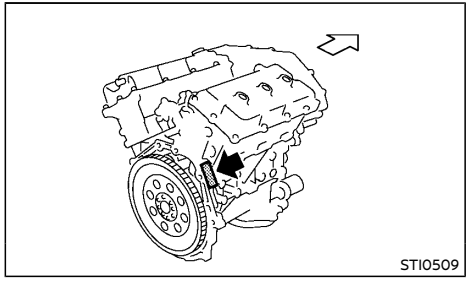
The vehicle identification number plate is attached as shown.

VEHICLE IDENTIFICATION NUMBER (VIN)

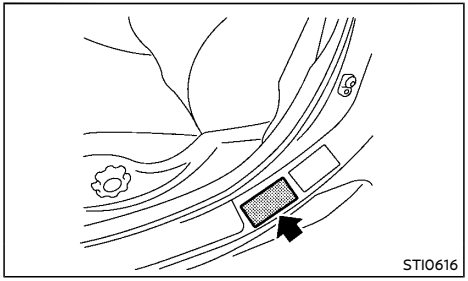


The vehicle identification number is stamped as shown.

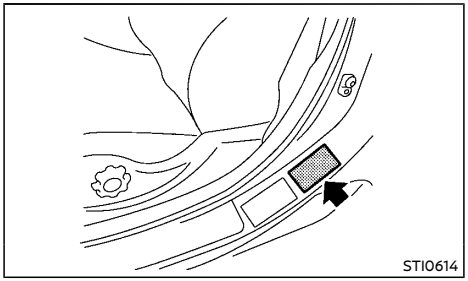
ENGINE SERIAL NUMBER



CERTIFICATION LABEL (if equipped)

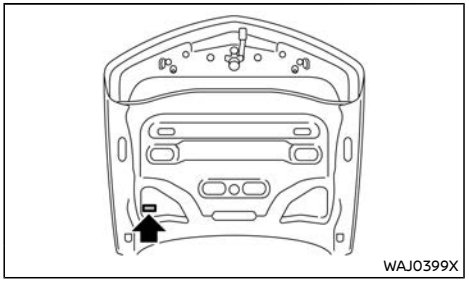


TIRE PLACARD



The cold tire pressures are shown on the tire placard affixed to the driver's side center pillar.

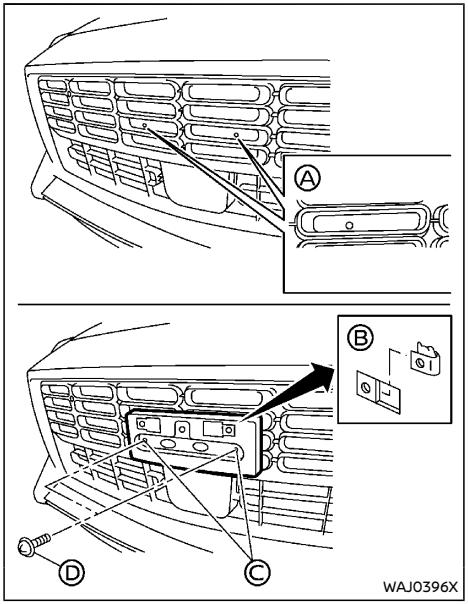
AIR CONDITIONER SPECIFICATION LABEL



The air conditioner specification label is attached to the underside of the hood as shown.

Air conditioner specification label symbols:		
Symbol Name	Reference	Graphic
Caution	ISO 7000 0434	
Air Conditioning System (MAC)	ISO 2575 D01	
MAC System Lubricant Type (PAG–POE)		
Requires Registered Technician to Service MAC System		
Flammable Refrigerant		

INSTALLING FRONT LICENSE PLATE (for Mexico)



Use the following steps to mount the license plate:

Only use the recommended mounting position, otherwise the radar sensor (Intelligent Cruise Control (ICC) system) obstruction may result.

Before mounting the license plate, confirm that the following parts are enclosed in the plastic bag.

- License plate bracket
- J-nut × 2
- Screw × 2

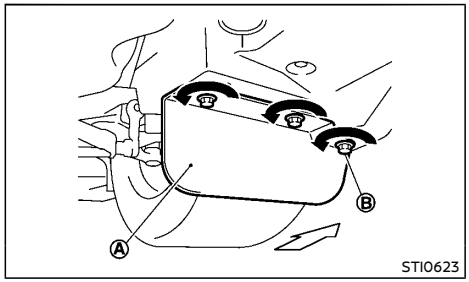
1. Park the vehicle on flat, level ground.
2. Locate the two dimples Ⓐ in the front grille.
3. Insert J-nuts Ⓑ into the license plate bracket.
4. Insert the bosses of the license plate bracket into the front grille, aligning the holes Ⓒ with the location marks (two dimples) Ⓐ.
5. Install the license plate bracket with the screws Ⓓ provided.
6. Install the license plate with bolts that are no longer than 14 mm (0.55 in).

REMOVING AIR DEFLECTORS

This vehicle is equipped with air deflectors in front of the front/rear wheels. The deflectors will change the air flow to help improve aerodynamic performance.

When transporting your vehicle on a trailer, the air deflectors may interfere with a steep slope to a trailer bed. In this case, remove the deflectors from the undercover of the vehicle.

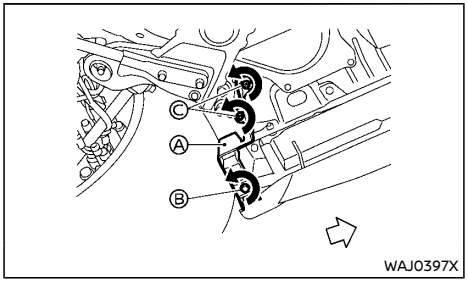
Front (if equipped):



Left side

1. Loosen three screws as shown and remove the left-side air deflector Ⓐ.
2. Tighten the removed screw Ⓑ in its original position.
3. Perform the same procedure to remove the right-side air deflector.
4. Store the two air deflectors and four screws to reinstall in the reverse order.
5. When reinstalling, make sure all six screws are firmly tightened on both air deflectors.

Rear:



Left side

1. Loosen three screws and nuts as shown and remove the left-side air deflector Ⓐ.
2. Tighten the removed screw Ⓑ and nuts Ⓒ in its original position.
3. Perform the same procedure to remove the right-side air deflector.
4. Store the two air deflectors and four nuts to reinstall in the reverse order.
5. When reinstalling, make sure all screws and nuts are firmly tightened on both air deflectors.

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

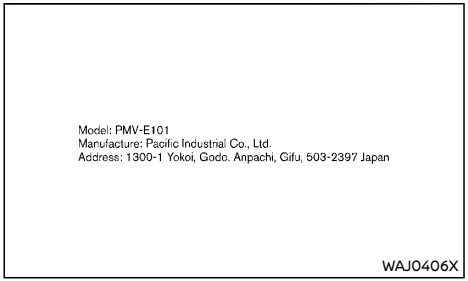
For countries conforming to UN regulation No.10 or equivalent:

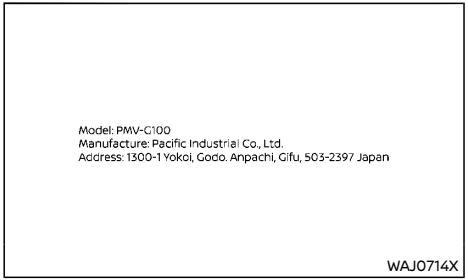
The installation of an RF transmitter in your vehicle could affect electric equipment systems. Be sure to check with your NISSAN dealer for precautionary measures or special instructions regarding installation. Upon request, your NISSAN dealer will provide the detailed information (frequency band, power, antenna position, installation guide, etc.) regarding installation.

RADIO APPROVAL NUMBER AND INFORMATION

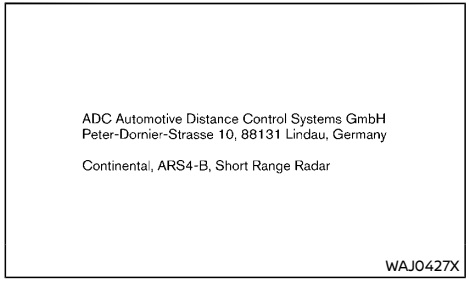
FOR JORDAN

Tire Pressure Monitoring System (TPMS) transmitter

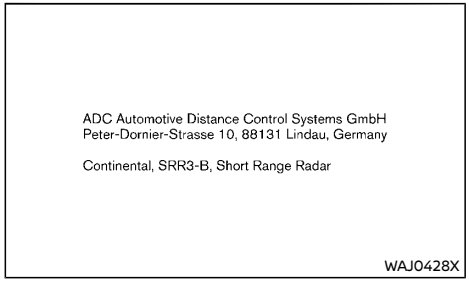




Front radar sensor

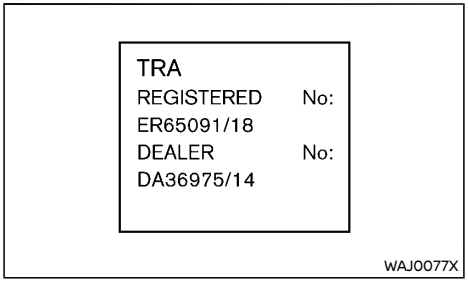


Side radar sensor

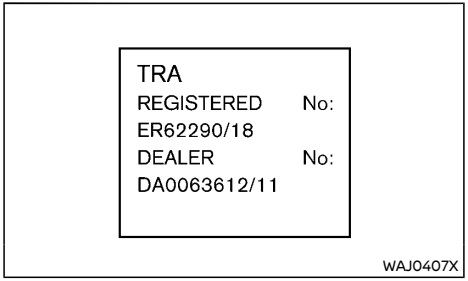


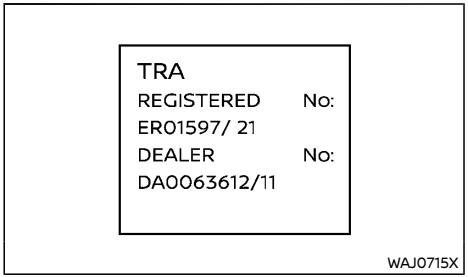
FOR THE UNITED ARAB EMIRATES

Intelligent Key system

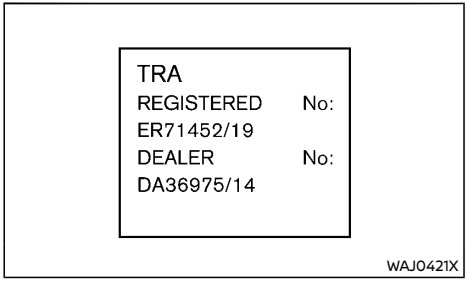


Tire Pressure Monitoring System (TPMS) transmitter

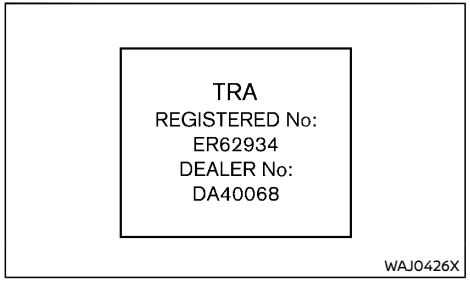




Body Control Module (BCM)

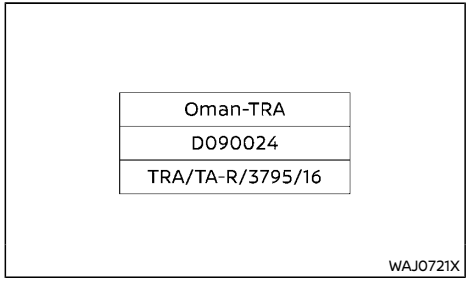


Side radar sensor



FOR OMAN

Tire Pressure Monitoring System (TPMS) tuner



FOR MEXICO

Intelligent Key system

TXN8
IFETEL: RLVCOS119-0862
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.

WAJ0401X

Tire Pressure Monitoring System (TPMS) tuner

IFETEL : RLVALTW16-0034
Fabricante : ALPS
Modelo : TWD1J0004

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.

WAJ0409X

Tire Pressure Monitoring System (TPMS) transmitter

MEX:
RLVPAPM18-0848

WAJ0419X

IFT :
RLVPAPM22-0832

WAJ0716X

Front radar sensor

IFETEL: RVLCOAR15-0008

WAJ0424X

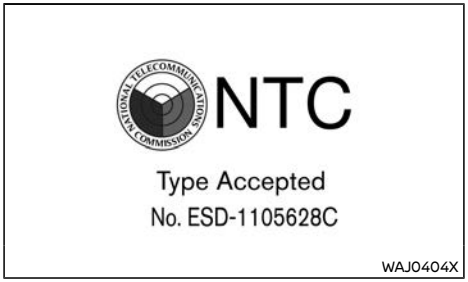
Side radar sensor

IFETEL: RLVCOSR15-0904

WAJ0425X

FOR PHILIPPINES

Body Control Module (BCM)



Intelligent Key system



Side radar sensor



MEMO

MEMO

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MEMO

GAS STATION INFORMATION

FUEL INFORMATION

Model with three-way catalyst

CAUTION:

- **Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**

For Brunei, Fiji, Bangladesh, Sri Lanka, Lebanon, Jordan and Philippines (except for NISMO models): Use UNLEADED PREMIUM gasoline with an octane rating of at least 95 (RON).

For Macau, Australia, New Zealand, Philippines (NISMO models) and the Middle East: Use UNLEADED PREMIUM gasoline with an octane rating of at least 98 (RON).

For Mexico: Use UNLEADED PREMIUM gasoline with an octane rating of at least 93 AKI (Anti-Knock Index) number (Research octane number 98).

If unleaded premium gasoline is not used, UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON) (except for Mexico) /87 AKI (Anti-Knock Index) number (Research octane number 91) (for Mexico) or above may be temporarily used, but only under the following precautions:

- **Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.**
- **Avoid full throttle driving and abrupt acceleration.**

Use unleaded premium gasoline for maximum vehicle performance.

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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