


# NISSAN LEAF

## OWNER'S MANUAL



# Foreword

Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

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

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

Your NISSAN certified electric vehicle 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 to us.

## READ FIRST — THEN DRIVE SAFELY

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

### ⚠ WARNING

**IMPORTANT SAFETY INFORMATION REMINDERS!**

**Follow these important driving rules to help ensure a safe and comfortable 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 give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Pre-teen children should be seated in the rear seat.**
- **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.**

## 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 modification may not be covered under NISSAN warranties.**

## 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.**

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 design at any time without notice.

## IMPORTANT INFORMATION ABOUT THIS MANUAL

You will see various symbols in this manual. They are used in the following ways:

### ⚠ 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.**

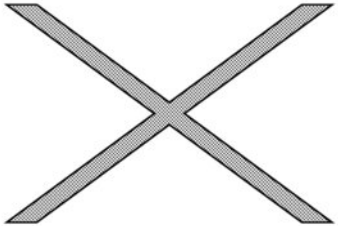
### ⚠ CAUTION

**This is used to indicate the presence of a hazard that could cause minor or moderate personal injury or damage to your vehicle. To avoid or reduce the risk, the procedures must be followed carefully.**

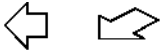
**NOTE:**
**Indicates additional helpful information.**




The NISSAN BLUE CITIZENSHIP symbol indicates environmentally friendly information and best practices.



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



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



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



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



This indicates the title and reference page.

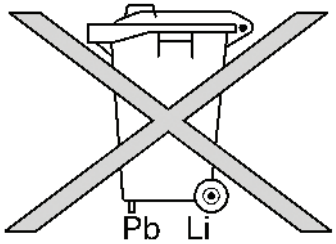
[ ]:

Indicates a key/item displayed on the screen.




**(Example)**

Be sure to read the "Airbag warning labels" description in the Safety section of this manual; and the "Airbag label" description at the end of this manual.




## BATTERY DISPOSAL

The Li-ion battery has a limited service life. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for information about recycling or disposal of the Li-ion battery. Do not attempt to recycle or dispose of the Li-ion battery yourself.

### ⚠ CAUTION

**An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**

Examples of the batteries that the vehicle contains:

- Vehicle battery
- Remote controller battery (for Intelligent Key and/or Remote keyless entry system)
- Tyre Pressure Monitoring System (TPMS) sensor battery
- Remote controller battery (for Mobile Entertainment system)

If in doubt, contact your local authority, or a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for advice on disposal.

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# Contents


| | |
|---|---|
| Electric vehicle overview | EV |
| Charging | CH |
| Illustrated table of contents | 0 |
| Safety — seats, seat belts and supplemental restraint system | 1 |
| Instruments and controls | 2 |
| Pre-driving checks and adjustments | 3 |
| Display screen, heater and air conditioner (climate control system) | 4 |
| Starting and driving | 5 |
| In case of emergency | 6 |
| Appearance and care | 7 |
| Maintenance and do-it-yourself | 8 |
| Technical information | 9 |
| Index | 10 |

# Electric vehicle overview


The electric vehicle system ..... EV-2
Li-ion battery ..... EV-2
Driving with a discharged Li-ion battery ..... EV-3
Charging the 12-volt battery ..... EV-5
High voltage precautions ..... EV-5
High-voltage components ..... EV-5
Road accident precautions ..... EV-6
Emergency shut-off system ..... EV-7
Electric vehicle characteristics ..... EV-7
Noise and vibration ..... EV-8
Life with an electric vehicle (scene guide) ..... EV-8
Charging the Li-ion battery ..... EV-9
Starting your vehicle ..... EV-10
Driving the vehicle ..... EV-11
At home after driving ..... EV-12
Efficient use of your vehicle ..... EV-13
Driving range ..... EV-13
Improve driving range ..... EV-13
Li-ion battery life ..... EV-14
Electric vehicle unique information ..... EV-14
Meters and indicators ..... EV-14
Approaching Vehicle Sound for Pedestrians (VSP) system ..... EV-16
Electric shift control system ..... EV-17
LED headlight (low beam) (where fitted) ..... EV-18

## THE ELECTRIC VEHICLE SYSTEM

The LEAF is an electric vehicle. Some of the vehicle's systems operate differently and have different operating characteristics than vehicles equipped with an internal combustion engine. It is important to carefully review the entire Owner's Manual for this reason. The main difference is the LEAF is powered by electricity. The LEAF does not require and it is not capable of using petrol like a vehicle powered by a traditional internal combustion engine. The LEAF uses electricity stored in the lithium ion (Li-ion) battery. The vehicle Li-ion battery must be charged with electricity before the vehicle can be driven. As the vehicle operates, the Li-ion battery gradually discharges. If the Li-ion battery becomes completely discharged, the vehicle will not operate until it is re-charged.

This vehicle uses two types of batteries. One is the 12-volt battery that is the same as the battery in vehicles powered by petrol or diesel engines, the other is the Li-ion battery (high voltage).

The 12-volt battery provides power to the vehicle systems and features such as the audio system, supplemental restraint systems, headlights and windscreen wipers.

The Li-ion battery provides power to the electric motor (traction motor) that moves the vehicle.

The Li-ion battery also charges the 12-volt battery.

The vehicle must be plugged in for the Li-ion battery to be charged. Additionally, the vehicle system can extend the driving range by converting driving force into electricity that is stored in the Li-ion battery while the vehicle is decelerating or being driven downhill. This is called regenerative braking. This vehicle is considered to be an environmentally friendly vehicle because it does not emit exhaust gases, such as carbon dioxide and nitrogen oxide.

## LI-ION BATTERY

**⚠ WARNING**

**Your vehicle contains a sealed Li-ion high voltage battery. If the Li-ion battery is disposed of improperly, there is a risk of severe burns and electrical shock that may result in serious injury or death and there is also a risk of environmental damage.**

**⚠ CAUTION**

**To prevent damage to the Li-ion battery:**

- **Do not expose the vehicle to extreme ambient temperatures for extended periods.**
- **Do not store the vehicle in temperatures below -25°C (-13°F) for over seven days.**
- **Do not leave your vehicle for over 14 days where the Li-ion battery available charge gauge reaches a zero or near zero.**
- **Do not use the Li-ion battery for any other purpose.**

**NOTE:**

- **If the outside temperature is -25°C (-13°F) or less, the Li-ion battery may freeze and it cannot be charged or provide power to run the vehicle. Move the vehicle to a warm location.**

- **The capacity of the Li-ion battery in your vehicle to hold a charge will, like all such batteries, decrease with time and usage. As the battery ages and capacity decreases, this will result in a decrease of driving range compared to the initial driving range when the vehicle was new. This is normal, expected, and not indicative of any defect in your Li-ion battery.**
- **The Li-ion battery has limited service life, and when its charging capacity falls below a specific level, the electric vehicle system warning light will illuminate. Owners should bring their vehicle in for inspection and possible battery replacement.**
- **The Li-ion battery has a limited service life. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for information about recycling or disposal of the Li-ion battery. Do not attempt to recycle or dispose of the Li-ion battery yourself.**

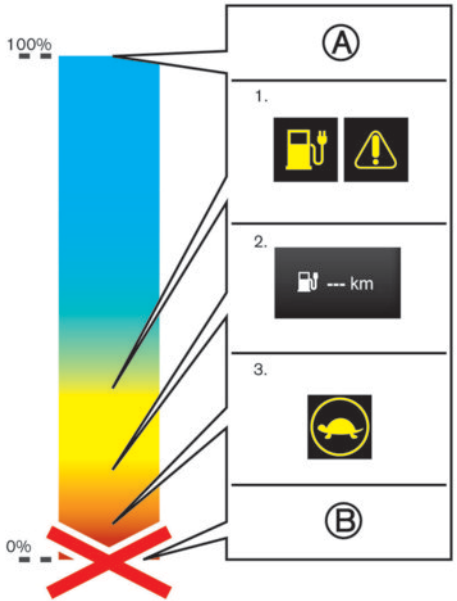
## DRIVING WITH A DISCHARGED LI-ION BATTERY

When a destination is set in the navigation system that exceeds the available driving range the navigation system automatically searches the location of nearby charging stations. When the nearby charging station locations are displayed, charge the Li-ion battery as soon as possible (models with navigation system).

Warning lights illuminate on the instrument panel and messages are displayed on the Vehicle Information Display to inform you that the Li-ion battery charge is low. Instructions are also displayed on the navigation system screen to direct you to nearby charging stations (models with navigation system).

The vehicle's range is very limited when these warning lights illuminate and messages are displayed. Follow the instructions on the navigation screen (models with navigation system) and immediately charge the vehicle at the nearest charging station.

There are three levels of information that will be displayed as the Li-ion battery becomes discharged:

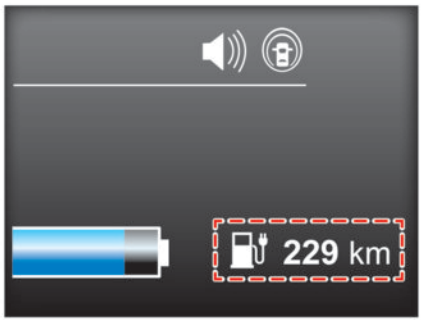



Ⓐ Full charge

1. Low Li-ion battery
2. "– – –" indication
3. Traction motor output limited

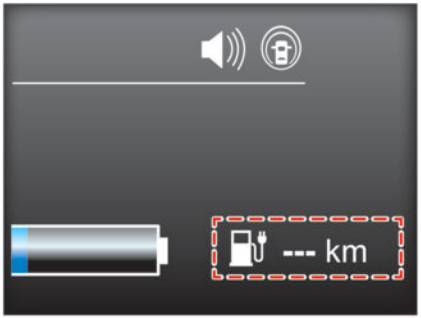
Ⓑ Battery discharged

1. The following warning lights illuminate on the instrument panel and messages are displayed on the Vehicle Information Display at the same time to indicate low Li-ion battery charge:
   - The low battery charge warning light
   - The master warning light
   - [Battery charge is low. Charge now] warning message is displayed on the Vehicle Information Display.
     See "Vehicle Information Display" in the "2. Instruments and controls" section.
   - Messages are displayed on navigation system screen (models with navigation system).
     See the separately provided navigation system owner's manual.




- The driving range flashes.

**NOTE:**
**Due to traffic conditions, it may be difficult to get to the charging station suggested by the navigation system (models with navigation system). If the Li-ion battery is almost completely discharged, drive directly to the nearest charging station.**




2. If the vehicle is driven and the Li-ion battery continues to discharge, the driving range on the instrument panel changes to "– – –".

3. When the power limitation indicator light illuminates, traction motor output is limited resulting in reduced vehicle speed. Stop the vehicle in a safe location before the Li-ion battery becomes completely discharged and there is no power available to drive the vehicle. Contact Roadside assistance service shown in your NISSAN LEAF Warranty Book and Maintenance Record. See "If the Li-ion battery becomes completely discharged" in the "6. In case of emergency" section.

## CHARGING THE 12-VOLT BATTERY

The 12-volt battery is charged automatically using electricity stored in the Li-ion battery.

When the 12-volt battery is being charged, the charge status indicator light on the instrument panel flashes (except when charging the Li-ion battery or when the power switch is in the **READY** to drive position). See  "Charging status indicator lights" in the "CH. Charging" section.

### While the vehicle is in use

The Li-ion battery charges the 12-volt battery as necessary when the power switch is in the **READY** to drive position or **ON** position.

The 12-volt battery is not charged in the following conditions:

- When the power switch is in **ACC** position.
- When the power switch is in the **ON** position and the shift lever is in the **N** (Neutral) position.

### While the vehicle is not in use

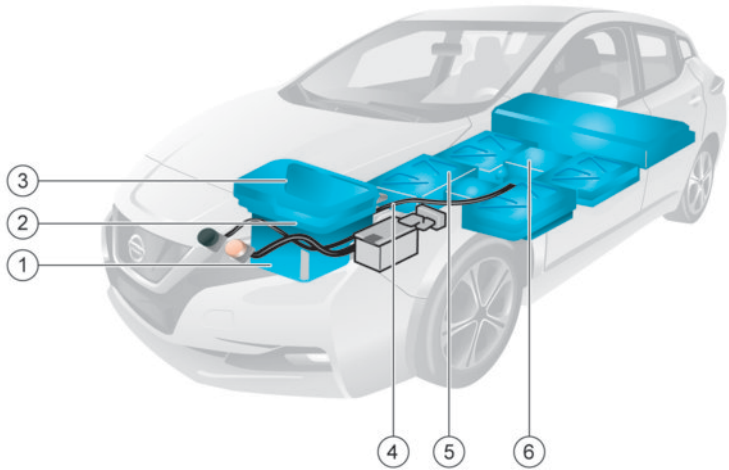
When the electric vehicle system is off for an extended time, the 12-volt battery may be automatically charged for a short period of time on a regular basis.

# HIGH VOLTAGE PRECAUTIONS

## HIGH-VOLTAGE COMPONENTS

**⚠ WARNING**

- **The electric vehicle system uses high voltage up to approximately DC 400 volts. The system can be hot during and after starting and when the vehicle is shut off. Be careful of both the high voltage and the high temperature. Follow the warning labels that are attached to the vehicle.**
- **Never disassemble, remove or replace high-voltage parts and cables as well as their connectors because they can cause severe burns or electric shock that may result in serious injury or death. High-voltage cables are coloured orange.**
- **The vehicle high voltage system has no user serviceable parts. Take your vehicle to a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for any necessary maintenance.**




**High-voltage components**

1. Traction motor and reduction gear
2. Traction motor inverter
3. Power Delivery Module (PDM)
   (Charger, DC/DC Converter, Junction Box)
4. High-voltage wire harnesses (coloured orange)
5. Li-ion battery
6. Service plug

## ROAD ACCIDENT PRECAUTIONS

### ⚠ WARNING

**In case of a collision:**

- **If your vehicle is drivable, pull your vehicle off the road, push the P (Park) position switch on the shift lever, apply the parking brake and turn the EV system off.**
- **Check your vehicle to see if there are exposed high-voltage parts or cables. For their locations, see "High-voltage components" earlier in this section. To avoid personal injury, never touch high-voltage wiring, connectors, and other high-voltage parts, such as the Power Delivery Module (PDM), inverter unit and Li-ion battery. An electric shock may occur if exposed electric wires are visible from inside or outside of your vehicle. Therefore, never touch exposed electric wires.**
- **If the vehicle receives a strong impact to the floor while driving, stop the vehicle in a safe location and check the floor.**
- **Leaks or damage to the Li-ion battery may result in a fire. If you discover them, contact emergency services immediately. Never touch the leaking fluid inside or outside the vehicle. If the fluid contacts your skin or eyes, wash it off immediately with a large amount of water and get immediate medical attention to help avoid serious injury.**

- **If a fire occurs in the electric vehicle leave the vehicle as soon as possible. Only use a type ABC, BC or C fire extinguisher that is meant for use on electrical fires. Using even a small amount of water or the incorrect type of fire extinguisher can result in serious injury or death from electrical shock.**
- **If your vehicle needs to be towed, do it with the front wheels raised. If the front wheels are on the ground when towing, the traction motor may generate electricity. This may damage the components of the electric vehicle system and cause a fire.**
- **If you are not able to safely assess the vehicle due to vehicle damage, do not touch the vehicle. Leave the vehicle and contact emergency services. Advise 1st responders that this is an electric vehicle.**

## EMERGENCY SHUT-OFF SYSTEM

The emergency shut-off system is activated and the high-voltage system automatically turns off in the following conditions:

- Front and side collisions in which the air bags are deployed.
- Certain rear collisions.
- Certain electric vehicle system malfunctions.

In the above described conditions the READY to drive indicator light will turn off. See ☞ "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.

The emergency shut-off is activated during the types of collisions mentioned above to minimise risk of an event that could cause further injury. If the emergency shut-off system activates, the electric vehicle system may not be switched to the READY to drive position, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. Even if the power switch is switched to the READY to drive position, the system may shut-off suddenly. Therefore, drive cautiously to the nearest knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer or contact such a dealer as soon as possible.

# ELECTRIC VEHICLE CHARACTERISTICS

**⚠ WARNING**

- **Pay special attention to pedestrians. Because there is no engine noise, pedestrians may not know the vehicle is approaching, moving or about to move, and may step into the path of vehicle travel. See ☞ "Approaching Vehicle Sound for Pedestrians (VSP) OFF switch" in the "2. Instruments and controls" section.**
- **When leaving the vehicle, be sure to turn off the electric vehicle system.**
- **Be sure to push the P (Park) position switch on the shift lever and apply the parking brake when parking because the vehicle can move when the READY to drive indicator light is ON. When the READY to drive indicator light is ON, do not leave your vehicle in a shift position other than the P (Park) position.**
- **Keep the brake pedal depressed until you are ready to drive. When the vehicle is in the D (drive), B or R (reverse) position, and you release the brake pedal, even without depressing the accelerator, the vehicle will creep and may start abruptly. This may cause serious injury or death.**

**NOTE:**

- **The vehicle cannot run with a discharged Li-ion battery. Repeated acceleration consumes more power from the Li-ion battery than driving at a steady speed.**

- **This vehicle is equipped with a regenerative brake system. The primary purpose of the regenerative brake system is to generate some power to recharge the Li-ion battery and to extend the driving range. A secondary benefit is "engine braking" that operates based on Li-ion battery conditions.**
- **In the D (Drive) position, when the accelerator pedal is released, the regenerative brake system provides some deceleration.**
- **When you place the shift lever in the B position and take your foot off the accelerator pedal, more regenerative brake is applied than in the D (Drive) position.**
- **Less deceleration is provided by the regenerative brake system when the Li-ion battery is fully charged. Regenerative braking is automatically reduced when the Li-ion battery is fully charged to prevent the Li-ion battery from becoming overcharged. Regenerative braking is also automatically reduced when the battery temperature is high/low (indicated by the red/blue zones on the Li-ion battery temperature gauge) to prevent Li-ion battery damage.**
- **The brake pedal should be used to slow or stop the vehicle depending on traffic or road conditions. The vehicle brakes are not affected by regenerative brake system operation.**

## NOISE AND VIBRATION

You might experience the following noise or vibration as a normal characteristic of this vehicle.

- Traction motor noise from motor compartment.
- Noise and vibration when releasing and applying the parking brake.
- Water pump and radiator fan noise while charging.
- Compressor and radiator fan noise when the Climate Ctrl. Timer is used.
- Relay operation noise and vibration at start-up and shut-down of the electric vehicle system (power switch placed in the ON and OFF position).
- Approaching Vehicle Sound for Pedestrians (VSP).

## LIFE WITH AN ELECTRIC VEHICLE (scene guide)

**⚠ WARNING**

**The electric vehicle system uses a high voltage current. Failure to follow the proper handling instructions may cause serious injury or death.**

This section provides a brief explanation of the most important LEAF functions. Refer to the specific sections of this manual for detailed explanations of the vehicle features and operation.

## CHARGING THE LI-ION BATTERY

**⚠ WARNING**

**Be sure to read ☞ "" in the "CH. " section and follow the procedures and guidelines described.**

The following methods of charging the Li-ion battery are available:

- **Quick charge**
- **Normal charge**
- **V2X charge/discharge***

*: A compatible V2X device is necessary.



**Normal charge port - Right hand side**

For normal charge connect using the right hand side charging port with the orange cap.

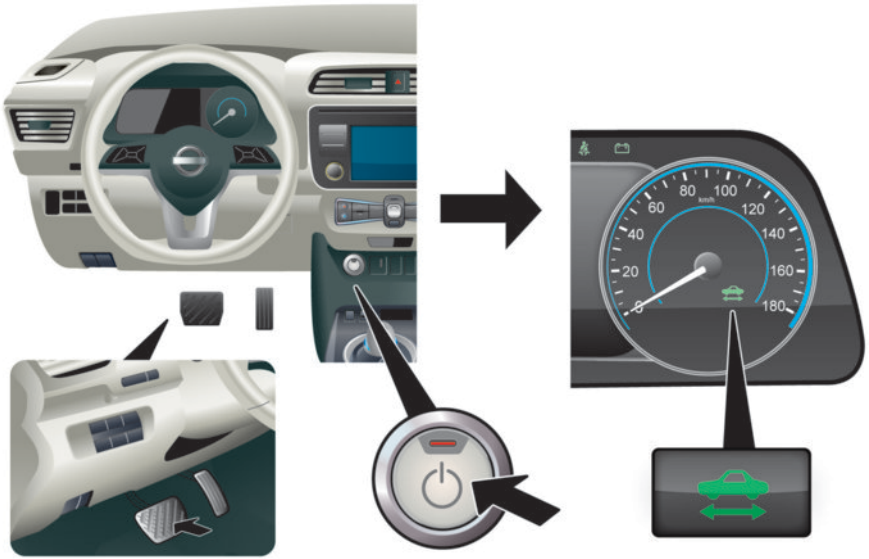
For instructions see ☞ "" in the "CH. " section.



**Quick charge port - Left hand side**

For quick charge and V2X charge/discharge connect using the left hand side charging port with the black cap.

For instructions see ☞ "" in the "CH. " section.




1. Depress the brake pedal.
2. Press the power switch.
3. Check that the READY to drive indicator light illuminates. See "READY to drive indicator light" in the "2. Instruments and controls" section
4. For models with navigation system: If route guidance is necessary, enter the destination in the navigation system. See the separately provided navigation system owner's manual.
5. Check the Li-ion battery charge level and the estimated driving range shown on the meter. See "Meters and gauges" in the "2. Instruments and controls" section.

**NOTE:**

- **Before driving, compare the driving distance to the destination displayed on the navigation screen with the estimated driving range shown on the meter. Determine if it will be necessary to charge the Li-ion battery while driving to your planned destination (models with navigation system).**
- **If it is necessary to charge the Li-ion battery, use the navigation system to search for available charging stations on your planned driving route (models with navigation system).**







1. Depress the foot brake pedal.
2. Release the parking brake.
3. Move the shift lever into the **D** (Drive) position. When released, the shift lever returns to the centre position.
4. Confirm that the vehicle is in the **D** (Drive) position. The indicator light next to the **<D>** by the shift lever illuminates and [D] is displayed on the Vehicle Information Display.
5. Release the foot brake pedal.
6. Depress the accelerator pedal and start driving.

There are the following gear positions for driving the vehicle forward:

- Use the **D** (Drive) position for optimum driving performance.
- Use the **B** position for downhill driving.
  When the **B** position is used, more regenerative brake is applied when the accelerator pedal is released in comparison to the **D** (Drive) position.

See "Driving the vehicle" in the "5. Starting and driving" section.

**NOTE:**
**The regenerative brake converts the vehicle's forward motion to electric power to help slow the vehicle.**

Use the ECO mode for maximum vehicle range and for city driving. The ECO mode helps reduce power consumption by reducing acceleration when compared to the same accelerator pedal position in the D (Drive) position (normal mode).



If the low battery charge warning light illuminates in yellow, the Li-ion battery charge is too low for travel. See "Driving range" in the "2. Instruments and controls" section. Charge the Li-ion battery as soon as possible.

## Parking the vehicle

1. When the vehicle has stopped, push the P position switch on the shift lever whilst depressing the brake pedal. Confirm that the vehicle is in the **P** (Park) position by checking the shift indicator located near the shift lever or the Vehicle Information Display.
2. Apply the parking brake.
3. Push the power switch to the **OFF** position.
4. If the parking lot is equipped with charging facilities, charge the Li-ion battery as necessary. See "" in the "CH. " section.

# AT HOME AFTER DRIVING

## Charging the Li-ion battery

When you return home, connect the vehicle to the domestic charging station installed at your home by your Electro-Mobility Operator (EMO). Use the cable permanently attached to the domestic charging station or, if your station does not have a cable attached, your Mode 3 cable (where fitted). Either way you must plug in at the LEAF charge port on the right hand side.

Charge the vehicle or set the charging timer to have the vehicle charge at a specific time. See "Charging methods" in the "CH. Charging" section.

1. When the power switch is turned off, the settings of the charging timer and the Climate Ctrl. timer functions are displayed on the Vehicle Information Display. See "Timer display" in the "2. Instruments and controls" section.
2. Open the charge port lid and charge port cap. See "Charge port lid" in the "3. Pre-driving checks and adjustments" section and "Charge port cap" in the "3. Pre-driving checks and adjustments" section.
3. Connect the charge connector to the vehicle.
4. When the charging timer is set, charging starts at the set time. When the charging timer is not turned on, charging starts immediately.

# EFFICIENT USE OF YOUR VEHICLE

## DRIVING RANGE

The distance you can drive the vehicle (driving range) varies considerably depending upon available charge, weather, temperature, usage, battery age, topography, optional equipment, maintenance, and driving style.

## IMPROVE DRIVING RANGE

The available driving range depends on a number of factors. Actual driving range will vary depending upon:

- Speed and acceleration
- Vehicle load
- Electrical load from vehicle accessories
- Traffic and road conditions

**NISSAN recommends the following driving habits to help maximise driving range:**

**Before driving:**

- Follow recommended periodic maintenance.
- Keep tyres inflated to the correct pressure.
- Keep wheels correctly aligned.
- Pre-heat or pre-cool the interior cabin while the vehicle is charging.
- Remove unnecessary cargo from the vehicle.

**While driving:**

- Drive in ECO mode
  - The ECO mode helps reduce power consumption by reducing acceleration when compared to the same accelerator pedal position in the D (Drive) position (normal mode).
- Drive at a constant speed. Maintain cruising speeds with a constant accelerator pedal position or by using the cruise control system when appropriate.
- Accelerate slowly and smoothly. Gently press and release the accelerator pedal for acceleration and deceleration.
- Drive at moderate speeds on the highway.
- Avoid frequent stopping and braking. Maintain a safe distance behind other vehicles.
- Turn off the air conditioner/heater when it is not needed.
- Select a moderate temperature setting for heating or cooling to help reduce power consumption.
- Use only the fan to help reduce power consumption.
- In cold weather, use the heated seats (where fitted) and heated steering wheel (where fitted) as a substitute for air conditioner to help reduce power consumption.
- Use the air conditioner/heater to control interior temperature and close windows to reduce drag when cruising at highway speed.
- Release the accelerator pedal to slow down and do not apply the brakes when traffic and road conditions allow.
  - This vehicle is equipped with a regenerative brake system. The primary purpose of the regenerative brake system is to provide some power to recharge the Li-ion battery and extend driving range. A secondary benefit is the “engine braking” effect that operates based on Li-ion battery conditions. In the D (Drive) and B position, when the accelerator is released, the regenerative brake system provides some deceleration and some power to the Li-ion battery.
- The vehicle driving range may be substantially reduced in extremely cold conditions (for example -20 °C (-4 °F)).
- Using the climate control system to heat the cabin when the outside temperature is below 0 °C (32 °F) uses more electricity and affects the vehicle driving range more than when using the heater when the temperature is above 0°C (32°F).

## LI-ION BATTERY LIFE

The Li-ion battery's ability to hold a charge, like all batteries, decreases with battery age and usage that results in a decreased driving range compared to the driving range when the vehicle was new. This is normal and expected, and does not indicate a malfunction of the vehicle or Li-ion battery.

The Li-ion battery's ability to hold a charge can be affected by how you drive the vehicle, store the vehicle, how you charge the Li-ion battery and the Li-ion battery temperature during vehicle operation and charging.

To maximise the battery's useful life, use the following driving and charging habits where possible:

- Avoid exposing a vehicle to extreme ambient temperatures for extended periods.
- Avoid storing a vehicle in temperatures below −25 °C (−13 °F) for more than seven days.
- Avoid leaving your vehicle for more than 14 days where the Li-ion battery available charge gauge reaches a zero or near zero (state of charge).
- Allow the vehicle and Li-ion battery to cool down after use before charging.
- Park/store your vehicle in cool locations out of direct sunlight and away from heat sources.
- Avoid sustained high battery temperatures (caused, for example, by exposure to very high ambient temperatures or extending highway driving with multiple quick charges).
- Use the normal charging methods to charge the Li-ion battery and minimize the use of public Fast Charge or Quick Charger.
- Drive moderately.
- Use the ECO mode.
- Do not operate the charging timer repeatedly while the charge connector is connected to the vehicle after the Li-ion battery charging is completed. Doing so may discharge the 12-volt battery.
- The power of the Li-ion battery can be checked on the Li-ion battery available charge gauge. For additional information, refer to ☞ "Li-ion battery available charge gauge" in the "2. Instruments and controls" section.

# ELECTRIC VEHICLE UNIQUE INFORMATION

## METERS AND INDICATORS

Various meters and gauges related to the EV functions are displayed in the Vehicle Information Display.

### Vehicle Information Display

**Master warning light:**




The master warning light (red or yellow) illuminates when messages are displayed on the Vehicle Information Display.

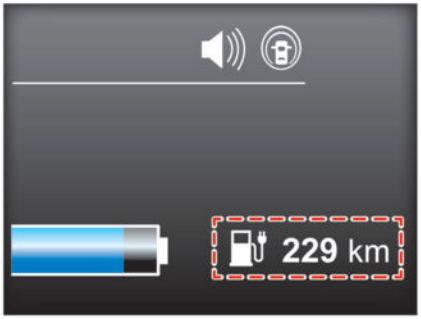
For additional information, see ☞ "Master warning light (red/yellow)" in the "2. Instruments and controls" section.

**Power meter:**




This meter displays the actual traction motor power consumption and the regenerative brake power provided to the Li-ion battery.

**Driving range:**




This indicator displays the estimated driving range (calculated based on current driving style and operational conditions) that can be driven before recharging is necessary.

For additional information, see "Driving range" in the "2. Instruments and controls" section.

**Li-ion battery available charge gauge:**

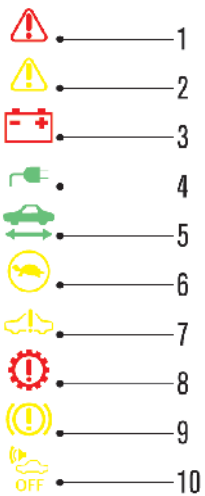



This indicator displays the available Li-ion battery capacity remaining to drive the vehicle.

For additional information, see "Li-ion battery available charge gauge" in the "2. Instruments and controls" section.

The EV unique information is displayed on the trip computer as well. For additional information, see "Trip computer" in the "2. Instruments and controls" section.

## Warning and indicator lights

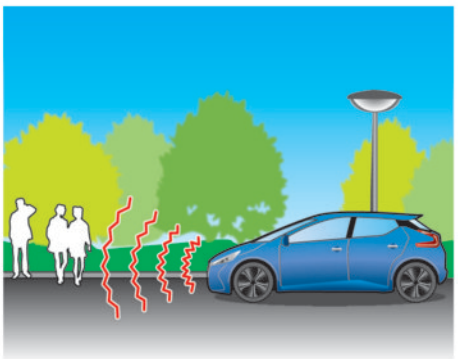


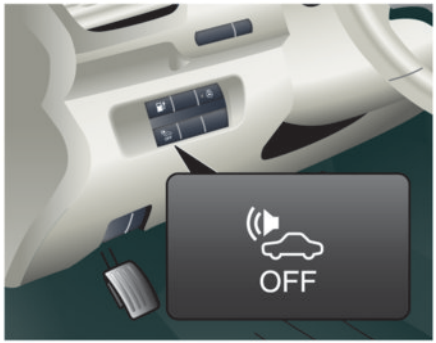

The electric vehicle system uses the following electric vehicle specific warning and indicator lights:

1) Master warning light (red)
2) Master warning light (yellow)
3) 12-volt battery charge warning light
4) Plug in indicator light
5) READY to drive indicator light
6) Power limitation indicator light
7) Electric vehicle system warning light
8) Electric shift control system warning light
9) BRAKE system warning light (yellow)
10) Approaching Vehicle Sound for Pedestrians (VSP) OFF indicator

For additional information, see ☞ "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.

## APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) SYSTEM






The Approaching Vehicle Sound for Pedestrians (VSP) system uses sound to alert pedestrians of the presence of the vehicle when it is driven at a low speed.

When the vehicle starts to move, it produces a sound.

The sound stops when the vehicle speed exceeds approximately 30 km/h (19 MPH).

The sound (re-)starts when the vehicle speed drops below approximately 25 km/h (16 MPH).

The sound stops when the vehicle stops.

**For Left-Hand Drive (LHD) model:**

The sound does not stop with the vehicle in the R (Reverse) position even if the vehicle stops.

1. The VSP system is automatically turned on when the vehicle is in the READY to drive mode.
2. Push the VSP OFF switch to turn OFF the VSP system. (The VSP OFF indicator illuminates to show the system is turned off.)
3. Push the VSP OFF switch again to turn the VSP system ON. (The VSP OFF indicator turns off.)
4. The system is reset when the power switch is turned off. The VSP system is automatically turned on when the power switch is turned on again.

**⚠ WARNING**

- **Drivers must use the VSP (especially when reversing the vehicle) with due care/consideration and ensure that they comply with the laws of the jurisdiction in which they operate the VSP.**
- **The VSP system should only be turned off in certain very unusual situations, where the presence of pedestrians is very unlikely, such as in a traffic jam on a highway. The VSP system should never be turned off if there is a chance pedestrians will be present.**
- **If the vehicle is driven with the VSP system switched off, pedestrians may not notice the oncoming vehicle, which may cause an accident resulting in serious personal injury or death.**
- **If the sound from the VSP system is not heard while driving, stop the vehicle in a safe and quiet location. Open a window and then place the vehicle in the R (Reverse) position with the brake pedal firmly depressed. Check that the operating sound can be heard from the front of the vehicle.**
- **If the sound cannot be heard when the VSP system is ON (VSP OFF indicator not illuminated), immediately contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for inspection.**

**NOTE:**
**If you wish to increase the volume of the VSP system, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. (It is not possible to lower the volume.)**

## ELECTRIC SHIFT CONTROL SYSTEM



This vehicle is equipped with an electric shift control system with the following three features:

- Smooth and easy shift lever operation.
- To place the vehicle in the P (Park) position, push the P (Park) position switch on the shift lever.
- The shift control system automatically applies the P (Park) position when the power switch is placed in the OFF position.

For additional information, see "Driving the vehicle" in the "5. Starting and driving" section.

## LED HEADLIGHT (low beam) (where fitted)

This vehicle uses an LED headlight for the headlight low beam. The LED headlight has the following features:

- Low power consumption
- Very compact shape

Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer to replace the headlight.

# Charging


Types of charging ..... CH-2
Precautions on charging ..... CH-3
How to charge the Li-ion battery ..... CH-4
Quick charge ..... CH-5
Normal charge ..... CH-7
Charge connector lock ..... CH-14
Charge port unlock screw ..... CH-14
V2X charge/discharge ..... CH-15
Charging methods ..... CH-18
Charging timer ..... CH-18
Charging related indicator lights ..... CH-20
Charging status indicator lights ..... CH-20
Charging troubleshooting guide ..... CH-23

## TYPES OF CHARGING

| Type of charging | Charge port | Charge connector | Plug | Power | Content |
|---|---|---|---|---|---|
| Quick charge |  |  Quick charge connector | |  | Use public charging station conforming to CHAdeMO standard. |
| Normal charge *1 |  |  Normal charge connector | |  Normal charging station with cable | Use normal charging station with cable. |
| | |  Normal charge connector | Plug |  Normal charging station with EV socket-outlet | Use NISSAN Mode3 cable and normal charging station with EV socket-outlet. |
| V2X*2 charge/ discharge |  |  Quick charge connector | |  | Use the V2X device that is installed in your home, office, etc. |

*1: The shape of the charge connector (and port) varies depending on the country (Type 1 or Type 2).

*2: V2X (Vehicle to Everything); The EV supplies electric power to a home or a building, etc. (e.g. Vehicle to Home (V2H), Vehicle to Building (V2B), Vehicle to Grid (V2G), Vehicle to Load (V2L), Vehicle to Vehicle (V2V)).

## PRECAUTIONS ON CHARGING

### ⚠ WARNING

- If you use any medical electric devices, such as an implantable cardiac pacemaker or an implantable cardiovascular defibrillator, check with the electric medical device manufacturer concerning the effects that charging may have on implanted devices before starting the charge operation. Charging may affect the operation.
- Make sure there is no water or foreign material in the charge port, charge connector or electrical plug, and that they are not damaged or affected by rust or corrosion. If any of these conditions are noticeable, do not charge the Li-ion battery. This may result in a short circuit or electric shock and could cause a fire which may result in serious personal injury or death.
- To avoid serious personal injury or death when the Li-ion battery is charging, be aware of the following precautions:
  - Do not touch the metal contacts of the charge port, charge connector or domestic plug.
  - Do not touch the vehicle and the charging equipment (charging station, Mode 3 cable) when there is lightning. This may cause an electrical shock.
- Do not disassemble or modify the charge port or the charging equipment (domestic charging station, Mode 3 cable). This may cause a fire.
- If you notice an unusual odour or smoke coming from the vehicle, stop charging immediately.
- Be careful not to allow your hands, hair, jewellery or clothing to come into contact with, or get caught in, the traction motor cooling fan. The cooling fan can start at any time during charging.
- After using your Mode 3 cable and if you place it in the vehicle, secure it firmly with the storage net in the luggage compartment. See ☞ "Storage" in the "2. Instruments and controls" section. Otherwise, it may become a projectile and cause a personal injury during sudden braking or in a collision.
- NISSAN highly recommends you charge your NISSAN LEAF at home using a NISSAN-recommended dedicated domestic charging station. A EN61851-compliant domestic charging station needs to be installed on a dedicated 220-240 V circuit by a professional electrician, certified by a NISSAN-recommended Electro-Mobility Operator (EMO).

### ⚠ CAUTION

- To prevent damage to the charging equipment:
  - Do not close the charge port lid without closing the charge port cap.
  - Do not subject the charging equipment to impact.
  - Do not pull or twist the charge cable.
- Make sure to close the charge port lid with the charge port cap when charging is finished. If the charge port lid is closed when the charge port cap is open, water or foreign materials may enter the charge port.
- Do not charge when a vehicle body cover is in use. This may cause damage to the charge connector.
- Do not attempt to perform a jump start on the 12-volt battery at the same time that the Li-ion battery is being charged. Doing so may damage the vehicle or charging equipment and could cause an injury. See ☞ "Jump starting" in the "6. In case of emergency" section.
- Do not insert any object other than the charge connector into the charge port doing so may cause damage to the charge port.

**NOTE:**

- When charging the Li-ion battery, place the power switch in the OFF position. When the power switch is in the ON position, the Li-ion battery will not start charging.
- For your safety, if the charge connector is connected to the vehicle while the power switch is in the READY to drive position, the vehicle will automatically switch to the ON position. Because charging will not be started while the power switch is in this position, be sure to place the power switch in the OFF position.

- **It may take more time to charge the Li-ion battery using the quick charger if the vehicle is parked in a cold location for a long time. It may take more time to charge the Li-ion battery using the quick charger if the temperature of the Li-ion battery is high or low. For further information, refer to ☞ "Trip computer" in the "2. Instruments and controls" section.**
- **The power switch can be set to the ON position and the climate control and navigation system (models with navigation system) can be used while the Li-ion battery is charging. However, because these operations consume Li-ion battery power, it will take longer for the Li-ion battery to become fully charged. Place the power switch in the OFF position to help reduce Li-ion battery charge time.**
- **If electrical power is interrupted while charging, charging restarts automatically when the electrical power is restored.**
- **If the charge port is frozen, melt the ice. After the ice has melted, charge the Li-ion battery. Forcing the charge connector to connect may cause a malfunction.**
- **If foreign materials have entered the charge connector or charge port and it is not possible to connect it, do not attempt to force the connection. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. Forcing the charge connector to connect may cause damage to the charging equipment and vehicle.**
- **There is a hole on the charge port for water drainage. If the water drainage hole becomes blocked, or if water gets trapped inside the charge port, do not charge. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## HOW TO CHARGE THE LI-ION BATTERY

This vehicle is an electric vehicle and it requires electricity to operate. The Li-ion battery is the only source of power to operate the vehicle.

It is important to conserve power and plan your charging needs when you drive to avoid completely discharging the Li-ion battery.

The following main methods of charging the Li-ion battery are available:

- **Quick charge**
- **Normal charge**
  - With normal charging station with cable
  - With NISSAN Mode3 cable*
- **V2X charge/discharge***

*: A compatible V2X device is necessary.

*: Your NISSAN Electric Vehicle dealer can advise regarding availability of this cable in your country.

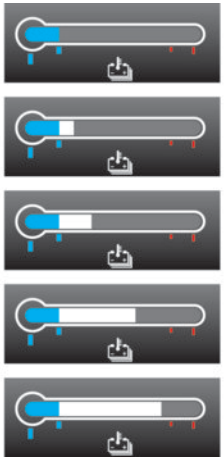
## QUICK CHARGE

Quick charge uses public charging stations (up to 50kW of power for models with 40 kWh battery/up to 100 kW of power for models with 62 kWh battery). LEAF compatible quick chargers are developed to the CHAdeMO standard as identified by the symbol shown.

**NOTE:**
**For models with 40 kWh battery: Even when charging the Li-ion battery using a charger capable of more than 50 kW, the maximum power from the charger will be limited to 50 kW.**

It may take more time to charge the Li-ion battery using the quick charger if the temperature of the Li-ion battery is high or low.

The Li-ion battery temperature gauge can be used to estimate the approximate time required to charge the Li-ion battery by 80%:

| Li-ion battery temperature gauge | Estimated charging time* |
|---|---|
|  | Over 90 minutes<br>approximately 40 – 90 minutes<br>approximately 40 minutes<br>approximately 40 – 80 minutes<br>Over 80 minutes |

*: Depending on charging power.

If charging stops mid-charge, you can restart charging by pressing the start button on the quick charger station again. Quick charging is possible (even several times a day). If the battery temperature is near the red zone, in order to protect the battery, power of the quick charging will be limited.

For further information see "Trip computer" in the "2. Instruments and controls" section.

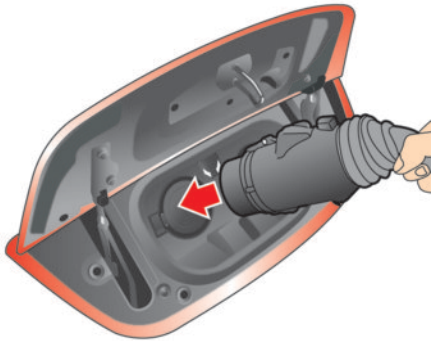
### ⚠ WARNING

- **Always use a quick charger with CHAdeMO mark that is compatible with the LEAF. Using an incompatible quick charger may cause a fire or malfunction resulting in serious personal injury or death.**
- **Before starting the quick charge, carefully read the instructions provided on the quick charger and make sure the quick charge connector is properly connected and locked. Failure to connect or operate the quick charger correctly could cause damage to the vehicle or the charging equipment.**

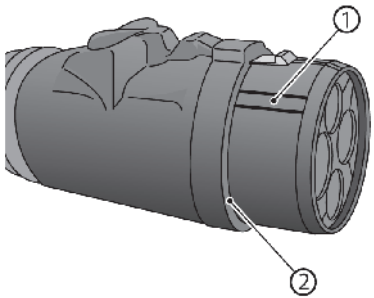
**NOTE:**
- **When the Li-ion battery available charge and Li-ion battery capacity are shown on the quick charger unit, the readings may differ from the actual Li-ion battery available charge/capacity.**

- **Depending on the quick chargers, the operation procedure may differ from the one shown in this manual. Follow the instructions provided on the quick charger.**

## How to start quick charge



1. Push the P position switch to place the vehicle in the P (Park) position and apply the parking brake.
2. When charging the Li-ion battery, place the power switch in the **OFF** position. When the power switch is in the **ON** position, the Li-ion battery will not start charging.
3. Open the charge port lid and charge port cap. see ☞ "Charge port lid" in the "3. Pre-driving checks and adjustments" section.




4. Align the groove on the charge connector ① with the quick charge port and insert the charge connector right up to the base ②.

**⚠ CAUTION**

- **Be sure to insert the charge connector straight into the quick charge port right up to the base. Failure to do so may result in the Li-ion battery not charging or could cause damage to the charging equipment.**

5. Confirm the charge connector is fixed in the charge port.
6. Follow the instructions on the quick charge equipment to start charging. When the equipment is properly installed and ready to charge a beep sounds twice and the charging status indicator light will change. See ☞ "Charging status indicator lights" later in this section.

Charging ends in the following situations:

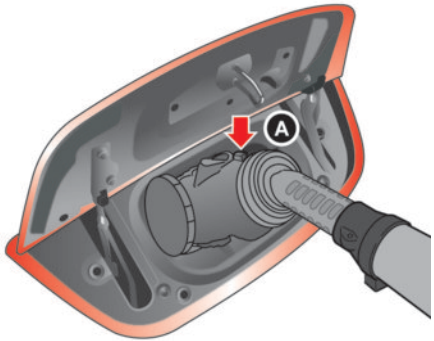
- When charging is complete.
- When the possible charge time set for the quick charger is exceeded.

**NOTE:**

- **Charging may automatically stop even if it is not completed.**
- **If charging stops mid-charge, you can restart charging by pressing the start button on the quick charger station again.**
- **The charge connector is locked to the charge port during charging and can not be disconnected. Follow the instructions on the quick charge equipment to stop charging. Confirm charging is stopped by looking at the charging status indicator lights on the instrument panel. The charge connector can be disconnected from the vehicle when charging has stopped.**
- **When quick charging, the Li-ion battery charging rate is slower as the percentage of battery charge available increases.**
- **When quick charging, the Li-ion battery charging rate is slower when the Li-ion battery temperature is extremely high or low.**

## How to stop quick charge

1. Confirm charging is stopped by looking at the charging status indicator lights on the instrument panel. The charge connector can be disconnected from the vehicle when charging is stopped.




2. Press the button Ⓐ on the charge connector to release the lock.
3. Remove the charge connector from the vehicle and store it away properly.
4. Close the quick charge port cap.
5. Close the charge port lid.

**⚠ CAUTION**

- **As the quick charge connector is heavier in comparison to the other charge connectors, allowing it to drop could cause damage to the vehicle or charge connector or personal injury. When removing the connector, be sure to pull it out straight and as carefully as possible.**

## NORMAL CHARGE



**Normal charge port - Right hand side**

There are three methods of normal charging:

- With normal charging station with cable
- With NISSAN Mode 3 cable (where fitted)

**NOTE:**

- **A NISSAN certified electric vehicle dealer can advise regarding availability of this cable in your country.**
- **NISSAN highly recommends an EN61851-compliant normal charging station installed on a dedicated 220-240 V circuit in your home by a licensed professional electrician, certified by a NISSAN-recommended Electro-Mobility Operator (EMO). NISSAN has contracted EMOs to assist you in purchasing and installing these charging stations, which are easy to use and provide AC power to your NISSAN LEAF for charging the battery. Another advantage is that it is possible to fully charge your LEAF overnight whilst using the cabin pre-heating or pre-cooling function. Your normal charging station will either have a cable attached, or requires the use of a NISSAN Mode 3 cable. Either way, you must connect the normal charge connector to the charge port on the right hand side.**

| Type of normal charging | Charge port | Charge connector | Control box | Power | Content |
|---|---|---|---|---|---|
| With normal charging station with cable |  | <br>Normal charge connector | | <br>Normal charging station with cable | Use normal charging station with cable. |
| With NISSAN Mode3 cable (where fitted) | | <br>Normal charge connector | Plug | <br>Normal charging station with EV socket-outlet | Use NISSAN Mode3 cable and normal charging station with EV socket-outlet. |

## Normal charge with normal charging station with cable

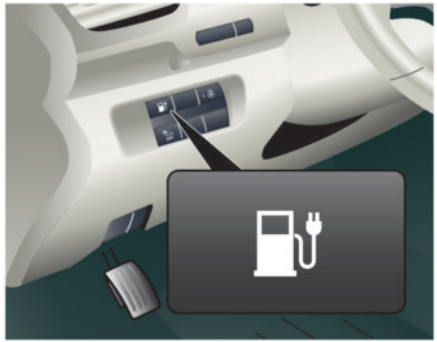
LEAF can be charged with compatible public normal charging stations and some versions of the home charging units.

**⚠ WARNING**

**Before starting the charge with charging station, carefully read the instructions provided on the normal charging station.**

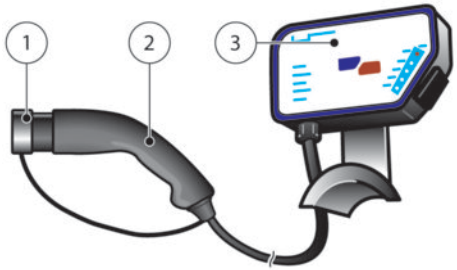
## How to start a normal charge with normal charging station with cable

1. Push the P position switch to place the vehicle in the P (Park) position and apply the parking brake.
2. Turn the LEAF's power off. Otherwise charging will not start.





3. When opening the charge port lid perform one of the following:
   - Push the charge port lid opener switch located on the instrument panel
   - Press and hold the charge connector lock button on the Intelligent Key for more than 1 second.



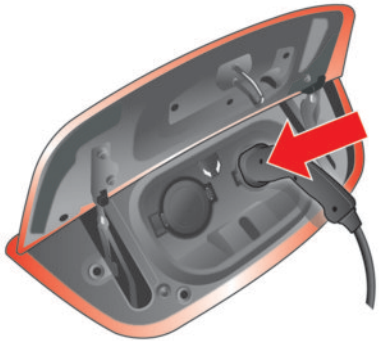

① Safety cap (where fitted)

② Normal charge connector

③ Charging station

4. Open the charge port cap. See ☞ "Charge port lid" in the "3. Pre-driving checks and adjustments" section.

5. Follow the instructions on the normal charging station ③ to start charging.
6. Remove the safety cap ① (where fitted) from the normal charge connector ②.
7. Connect the normal charge connector to the vehicle normal charge port, and hold the connector until it is locked. If it is connected correctly, a beep will sound once.

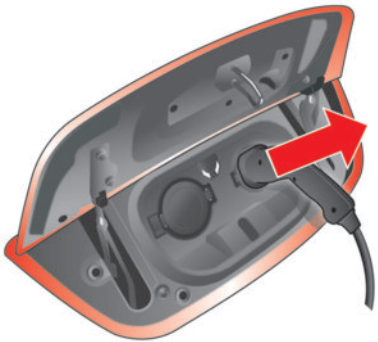


8. Follow the instructions on the normal charging station ③ to start charging. If charging has started, or if the Li-ion battery is waiting for the charging timer to start, a beep will sound twice and the charging status indicator light display will change. See "Charging status indicator lights" later in this section.

**NOTE:**
**When the vehicle detects that the connector is not connected correctly, an alarm sounds for 30 seconds. In that case, insert the connector correctly or retry the connection. The alarm will stop after 30 seconds, even if the charging connector connection has not been made correctly, but the charging will not start.**

## How to stop a normal charge with normal charging station with cable

Follow the instructions on the charging station to stop charging.



1. To stop charging, push the charge connector lock button on the Intelligent Key for more than 1 second or push the charge port lid opener switch.
2. Remove the charge connector from the charge port.
3. Attach the safety cap to the cable attached to normal charging station (where fitted).
4. After closing the cap on the vehicle charge port, close the charge port lid.

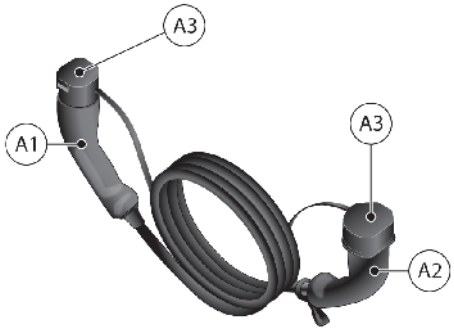
## Normal charge with NISSAN Mode 3 cable (Where fitted)

NISSAN Mode 3 cable can be used with normal charging station with EV socket-outlet. Your NISSAN Electric Vehicle dealer can advise regarding the availability of this cable in your country. The NISSAN Mode 3 cable is a dedicated Electric Vehicle charging cable and can be used with compatible public normal charging stations and some versions of the home charging units.

**⚠ WARNING**

**Before starting the charge, carefully read the instructions provided on the normal charging station.**

**NISSAN Mode 3 cable:**




**NISSAN Mode 3 cable (Type 2 plug)**

(A1) Type2 plug (with male terminal)
Connect the plug to a normal charging station socket-outlet.

(A2) Normal charge connector (with female terminal)
Connect the normal charge connector to a normal charge port.

(A3) Cord

The NISSAN Mode 3 cable does not need the control box on the cable because safety communication is managed directly between the normal charging station and the vehicle.

## ⚠ WARNING

- **Do not disassemble, repair, or modify NISSAN Mode3 cable.**
- **Do not touch the electrical terminals of NISSAN Mode3 cable.**
- **Do not allow a child to handle or use the NISSAN Mode3 cable without adult supervision.**

**Precautions on handling the NISSAN Mode3 cable:**

Do not pull, twist, bend, step on, or drag the cable. In the event of an abnormality or problem:

- Do not use NISSAN Mode3 cable when there is an abnormality or problem, such as a deep cut, crack, or damage, or if the cable is corroded.
- If charging stops when you move the cable, this may be caused by a line breakage. When this happens, immediately stop using NISSAN Mode3 cable.
- Immediately stop using NISSAN Mode3 cable if you notice an abnormality or problem such as a strange smell, smoke, or unusual noises being emitted from NISSAN Mode3 cable while charging.

## ⚠ CAUTION

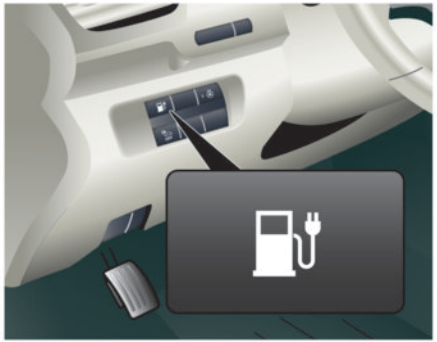
- **Handle the NISSAN Mode3 cable carefully. For example, do not drop the NISSAN Mode3 cable, subject it to excessive shocks, or immerse it in water.**

**Precautions on storing the NISSAN Mode3 cable:**

- Do not store the NISSAN Mode3 cable in a place exposed to direct sunlight.
- Do not store the NISSAN Mode3 cable in a place exposed to wind and rain.
- Be sure to store NISSAN Mode3 cable with the protective cap on to keep the terminal part of the normal charge connector away from dirt and dust.
- Do not store the NISSAN Mode3 cable in a condition in which the cable is twisted.

### How to start a normal charge with NISSAN Mode3 cable

1. Push the P position switch to place the vehicle in the P (Park) position and apply the parking brake.
2. Turn the LEAF's power off. Otherwise charging will not start.





3. When opening the charge port lid perform one of the following:
   - Push the charge port lid opener switch located on the instrument panel, or press and hold the charge connector lock button on the Intelligent Key for more than 1 second.






① Normal charge connector

② Plug

③ Normal charge safety cap

④ Plug cap

4. Remove the plug safety cap ④ from the plug ② and connect the plug to the charging station EV socket-outlet. Before connecting confirm the instructions provided on the normal charging station.
5. Open the charge port cap. See "Charge port cap" in the "3. Pre-driving checks and adjustments" section.
6. Remove the normal charge connector safety cap ③ from the normal charge connector ①.



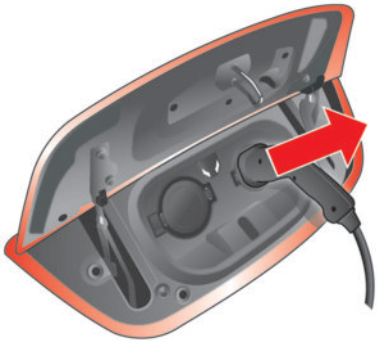
7. Connect the normal charge connector to the vehicle normal charge port, and hold the connector until it is locked. If it is connected correctly, a beep will sound once.

8. Follow the instructions on the normal charging station to start charging. If charging has started, or if the Li-ion battery is waiting for the charging timer to start, a beep will sound twice and the charging status indicator light display will change. See "Charging status indicator lights" later in this section.

**NOTE:**
**When the vehicle detects that the connector is not connected correctly, an alarm sounds for 30 seconds. In that case, insert the connector correctly or retry the connection. The alarm will stop after 30 seconds, even if the charging connector connection has not been made correctly, but the charging will not start.**

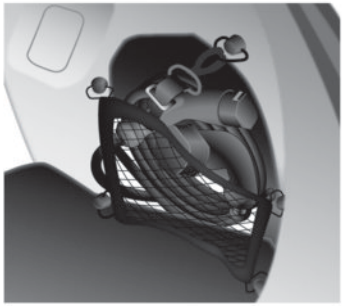
## How to stop a normal charge with NISSAN Mode3 cable

Follow the instructions on the charging station to stop charging.



1. To stop charging, push the charge connector lock button on the Intelligent Key for more than 1 second or push the charge port lid opener switch.
2. Remove the charge connector from the charge port.
3. Attach the normal charge connector safety cap to the normal charge connector.
4. After closing the cap on the vehicle charge port, close the charge port lid.
5. Remove the NISSAN Mode3 cable plug from the charging station EV socket-outlet and attach the plug safety cap to the plug. If the plug is locked by the charging station, release the lock according to the instructions provided on the normal charging station.
6. After closing the cap on the charge port, close the charge port lid.

**⚠ WARNING**



**If you place the NISSAN Mode3 cable in the vehicle, secure it firmly with the storage net in the luggage compartment. Otherwise, it may become a projectile and cause a personal injury during sudden braking or in a collision.**

### Connector half engaged alarm

If the charge connector has not locked correctly due to the following causes, the half engaged alarm will sound:

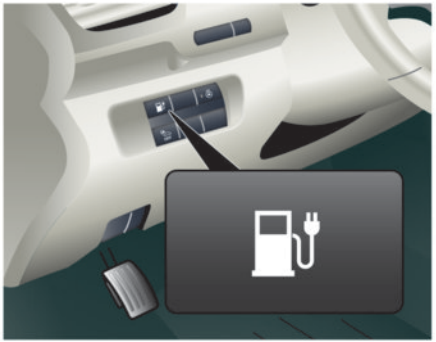
- The charge connector is not connected correctly.
- The shift position is other than P (Park).
- The charge connector lock has a malfunction.

## CHARGE CONNECTOR LOCK



### Unlock operation using Intelligent Key

1. Push the charge connector lock button on the Intelligent Key for more than 1 second.
2. The charging status indicator light flashes 3 times and a beep sounds 3 times. The charge connector lock is unlocked for 30 seconds.
3. After 30 seconds, the charge connector lock is locked.

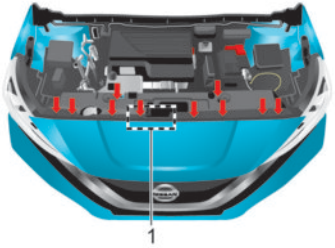


**Unlock operation using charge port lid opener switch:**

1. Push the charge port lid opener switch.
2. The charging status indicator light flashes 3 times and a beep sounds 3 times. The charge connector lock is unlocked for 30 seconds.
3. After 30 seconds, the charge connector lock is locked.

**NOTE:**
**Depending on the charging station, the lock mechanism established by local standards may not be compatible with your vehicle. It may not be possible for the charge connector to lock to your vehicle.**

## CHARGE PORT UNLOCK SCREW




**⚠ CAUTION**

- **Do not unlock the charge connector using ① when the charge connector lock is operated normally.**
- **Do not turn ① clockwise. This may cause damage to the charge connector.**

If the charge connector can not be unlocked, proceed as follows:

1. Place power switch in the **OFF** position.
2. Open the bonnet.
3. Remove the plastic holding clips from, and then remove, the cover.
4. Turn the knob anticlockwise (about 4 turns) to release the charge connector lock, and remove the charge connector.

## V2X CHARGE/DISCHARGE

V2X (Vehicle to Everything) enables the EV to supply electric power to a home or a building, etc. V2X encompasses the following features:

- Vehicle to Home (V2H)
- Vehicle to Building (V2B)
- Vehicle to Grid (V2G)
- Vehicle to Load (V2L)
- Vehicle to Vehicle (V2V)

V2X charge/discharge capability is only available on vehicles manufactured with the V2X charging/discharging option, which includes the quick charge port.

A vehicle fitted with a quick charge port is compatible with most CHAdeMO (Japanese industry standard) connectors on charging stations.

V2X charging/discharging is possible (even several times a day). If the battery temperature is near the red zone, in order to protect the battery, power for V2X charging/discharging will be limited.

For additional information, consult a V2X device manufacturer, or a V2X charging/discharging service provider.

V2X charge/discharge uses a V2X device.

**⚠ WARNING**

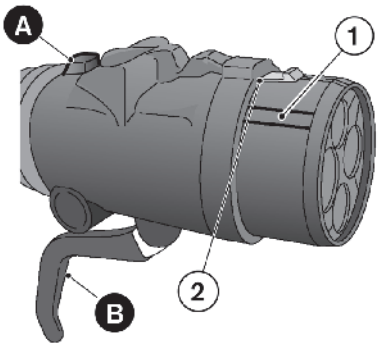
- **Always use a V2X device that is compatible with the LEAF. Using an incompatible V2X device may cause a fire or malfunction resulting in serious personal injury or death.**
- **Before starting the V2X charge/discharge, carefully read the instructions provided on the V2X device and make sure the V2X device is properly connected and locked. Failure to connect or operate the V2X device correctly could cause damage to the vehicle or the charging equipment.**

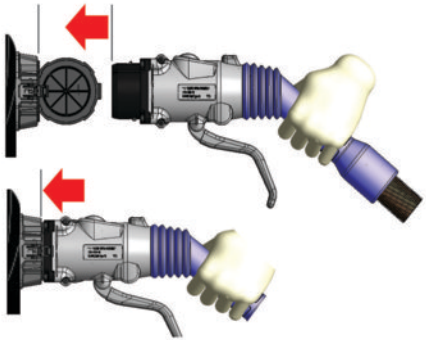
**NOTE:**
**When the Li-ion battery available charge/discharge and Li-ion battery capacity are shown on the V2X device, the readings may differ from the actual Li-ion battery available charge/discharge capacity.**

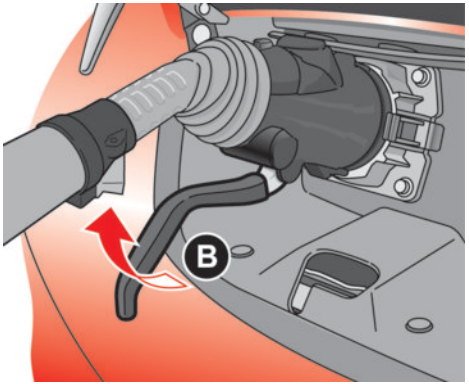
### How to start V2X charging/discharging



1. Push the P position switch to place the vehicle in the P (Park) position and apply the parking brake.
2. When charging/discharging the Li-ion battery, place the power switch in the **OFF** position. When the power switch is in the **ON** position, the Li-ion battery will not start charging/discharging.
3. Open the charge port lid and charge port cap. see ☞ "Charge port lid" in the "3. Pre-driving checks and adjustments" section.






4. Align the groove on the charge connector ① with the quick charge port and insert the charge connector right up to the base ② (there is no need to use Ⓐ or Ⓑ at this stage).

**⚠ CAUTION**

- **Be sure to insert the charge connector straight into the quick charge port right up to the base. Failure to do so may result in the Li-ion battery not charging/discharging or could cause damage to the charging equipment.**

5. Pull the lock lever Ⓑ up to lock the charge connector.
6. Confirm the lock lever is fixed in the lever holder.
7. Follow the instructions on the V2X device to start charging/discharging. When the equipment is properly installed and ready to charge/discharge a beep sounds twice and the charging status indicator light will change. See "Charging status indicator lights" later in this section.

Charging/discharging ends in the following situations:

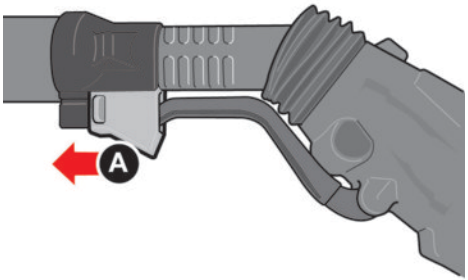
- When charging/discharging is complete.
- When the possible charge time set for the V2X device is exceeded.

**NOTE:**

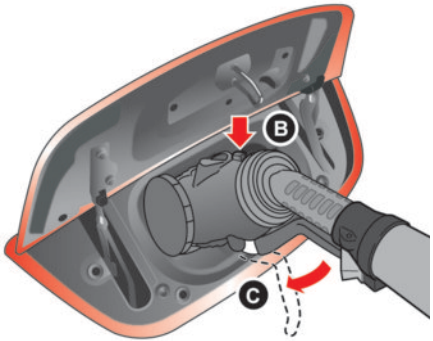
- **Charging/discharging may automatically stop even if it is not completed.**
- **If charging stops mid-charge, you can restart charging by starting operation of the V2X device again.**
- **The charge connector is locked to the charge port during charging/discharging and can not be disconnected. Follow the instructions on the V2X device to stop charging/discharging. Confirm charging/discharging is stopped by looking at the charging status indicator lights on the instrument panel. The charge connector can be disconnected from the vehicle when charging/discharging has stopped.**

## How to stop V2X charging/discharging

1. Confirm charging/discharging is stopped by looking at the charging status indicator lights on the instrument panel. The charge connector can be disconnected from the vehicle when charging/discharging is stopped.




2. Slide back the lever holder Ⓐ.

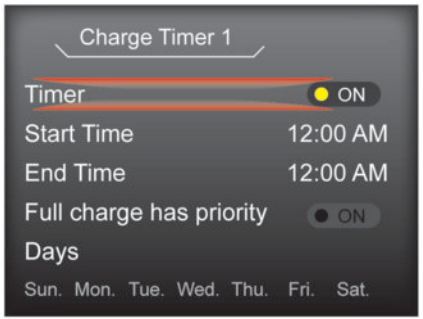



3. Press the button Ⓑ on the charge connector to release the lock lever Ⓒ.
4. Remove the charge connector from the vehicle and store it away properly.
5. Close the quick charge port cap.
6. Close the charge port lid.

## CHARGING METHODS

### CHARGING TIMER

Use the charging timer to schedule when the Li-ion battery will be charged. The vehicle automatically starts charging at the scheduled times once the charge connector is connected to the vehicle. The timers do not need to be reset each time the Li-ion battery needs to be charged.




The charging timer can save two timer settings that include the charging start time and end time. The charging timer can be applied to the timer settings for each day of the week. (models with navigation system)

The vehicle automatically begins charging at the scheduled times when the charge connector is connected to the vehicle. The timers do not need to be reset each time the Li-ion battery needs to be charged.

1. Push the ◀ or ▶ button to select [Settings] on the vehicle information display.
2. Push the ▲ or ▼ button to select [EV Settings] and then push the **<OK>** button.
3. Push the ▲ or ▼ button until the [Charge Timer1] or [Charge Timer2] is selected and then push the **<OK>** button.
4. Push the ▲ or ▼ button to select [Timer] and then push the **<OK>** button. The indicator light will turn on when the timer setting is turned on.
5. Push the ▲ or ▼ button until the [Start Time] is selected and then push the **<OK>** button.
6. Push the ▲ or ▼ button to set the hour and then push the **<OK>** button.
7. Push the ▲ or ▼ button to set the minute and then push the **<OK>** button.
8. Push the ▲ or ▼ button until the [End Time] is selected and then push the **<OK>** button.
9. Push the ▲ or ▼ button to set the hour and then push the **<OK>** button.
10. Push the ▲ or ▼ button to set the minute and then push the **<OK>** button.
11. Models with navigation system: Push the ▲ or ▼ button to select the days of the week that you wish to activate the Charge Timer and then push the **<OK>** button. Push the ↩ (Back) button to return to the previous display.
12. After the setting is complete, place the power switch in the **OFF** position, and then connect the charge connector to the vehicle.

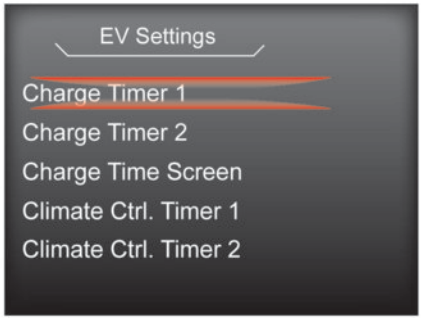
#### Full charge has priority

If [Full charge has priority] is turned on, the charge start timer will be advanced in the case the fully charged condition of the Li-ion battery cannot be achieved during the time from the start time to end time. If the fully charged battery condition is not achieved, the charge continues until the Li-ion battery is fully charged.

**NOTE:**
**If [Full charge has priority] is turned on, it is possible that the battery is not charged fully by the charge end time due to the operating condition of the Climate Ctrl. Timer and the tolerance of charging time, etc. In that case, the charging continues until the Li-ion battery is fully charged.**

## Chg. Timer Only at HOME (with navigation system)

If you register your home in the navigation system and turn on [Chg. Timer Only at HOME], the timer charging is applied only when the normal charge is performed at home. See the NissanConnect Owner's Manual for the registration. When the charging is performed at the place other than home, the charging automatically starts when a normal charge connector is connected to the vehicle.



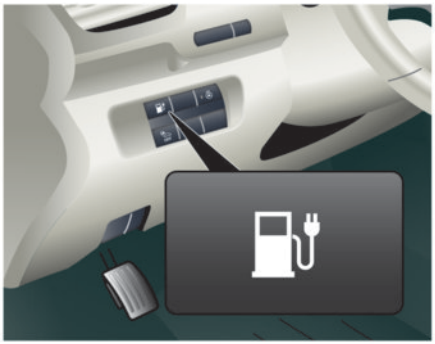

**NOTE:**

- **Always place the power switch in the OFF position after setting the charging timers. When the power switch is in the ON position, the Li-ion battery will not start charging.**
- **If the current time passes the charge starting time by too much, it is possible that the actual charging amount may be smaller than the expected level.**
- **The Li-ion battery will not charge when the charge connector is connected to the vehicle until the next scheduled charge start time, when the charging timer is active. If necessary, use immediate charge to charge the Li-ion battery.**
- **Some charging stations used to perform normal charge are equipped with timer functions. If the charger timer function and the vehicle timer are both set, and the two timers are not set to operate at the same time, it is possible that the charger will not start or the battery will not be charged to the level expected.**
- **Charging timer is performed according to the current time setting of the clock on the Vehicle Information Display. When setting the charging timer function, be sure to check that the current time displayed is correct.**
- **To turn off the charging timer function, select [Timer] on the charge timer setting screen (both [Charge Timer1] and [Charge Timer2]) and push the <OK> button to turn off the indicator light.**
- **If the day of the week is not selected on the charge timer setting screen, the charging timer will not operate on that day. The system will wait until the next set charging time to perform charging. (models with navigation system)**

## Immediate charge

When the charging timer is not turned on, charging automatically starts when a normal charge connector is connected to the vehicle.

Use the immediate charge mode any time you want to start charging immediately while a charging timer is turned on by performing the following:



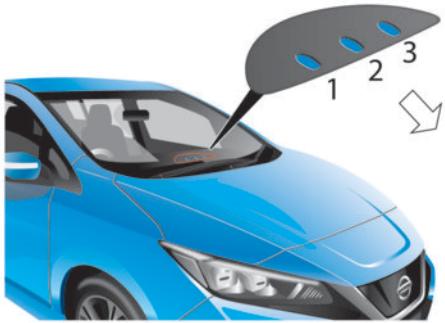
1. Place the power switch in the OFF position.
2. Press the immediate charge button.
3. Connect the normal charge cable when the charging status indicator light changes to display immediate charge mode.

**NOTE:**

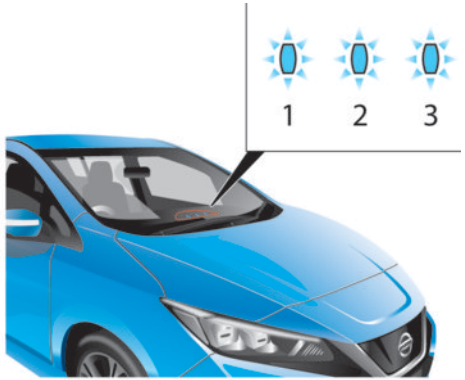
- **You have 15 minutes to connect a normal charge connector to the vehicle after the immediate charge button is pressed. If a charge connector is not connected to the vehicle within 15 minutes, the vehicle automatically returns to the previous setting.**
- **To cancel the immediate charge mode press the immediate charge button again before connecting the charge cable.**
- **If the charge cable is disconnected, the Li-ion battery automatically switches to charging timer. To perform an immediate charge again, press the immediate charge button and connect the charge cable.**
- **If the charge cable is already connected, press the immediate charge button to start performing an immediate charge.**

# CHARGING RELATED INDICATOR LIGHTS

## CHARGING STATUS INDICATOR LIGHTS




The charging status indicator lights ① to ③ primarily display the charging status, and are visible from both inside and outside the vehicle.




### When the normal charge connector lock is unlocked

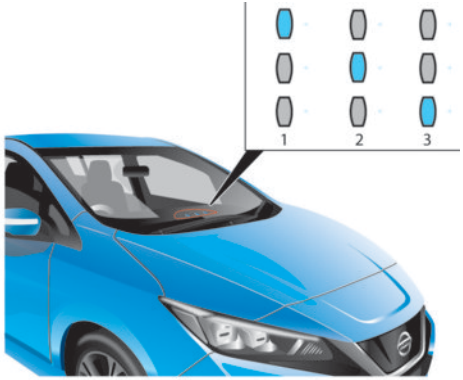
All of the indicator lights, ① to ③, will flash and a beep will sound three times when the normal charge connector lock switch on the Intelligent Key or the charge port lid opener switch is pushed.

### When the normal charge connector is connected incorrectly

All of the indicator lights, ① to ③, will flash and a beep will sound three times within 30 seconds when the charge connector is connected incorrectly to the normal charge port.

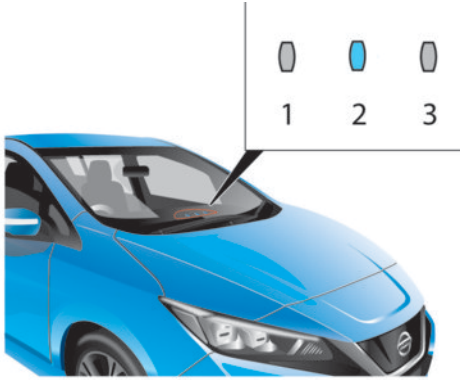
The charging cannot be performed in this condition.

## Ready for charging timer




If the charging timer is set, the indicator lights illuminate, in order from ① to ③. The indicator lights turn off after approximately 5 minutes.

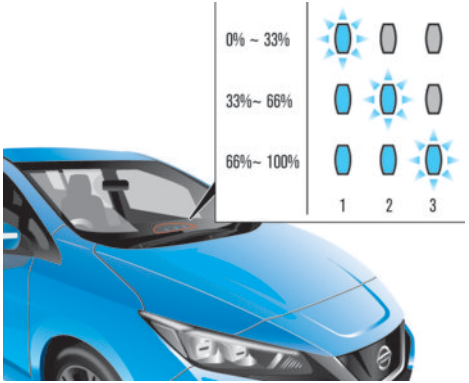
## Ready for immediate charge




When the power switch is in the **OFF** position and if the immediate charge button is pressed while the charge cable is not connected, the indicator light ② illuminates, indicating the vehicle is ready for immediate charge.

You then have 15 minutes to connect the charge connector to the vehicle. If the charge connector is not connected within 15 minutes, the indicator light ② turns off and you must start the immediate charge mode again to charge the Li-ion battery.

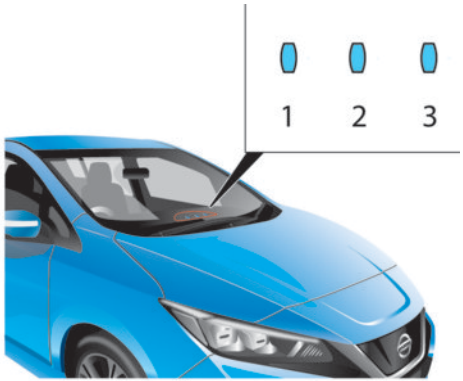
## When charging




When the Li-ion battery is being charged, the charging status indicator lights will change depending on the amount the Li-ion battery is charged.

The amount the Li-ion battery is charged is also displayed by the illumination of the Li-ion battery available charge gauge on the Vehicle Information Display.

### When fully charged




All of the indicator lights ① to ③ illuminate when the Li-ion battery is fully charged.

The indicator lights turn off after approximately 5 minutes or when the charge connector is removed.

### When the indicator light ③ flashes




The indicator light ③ flashes when the 12-volt battery is being charged. See "Charging the 12-volt battery" in the "EV. Electric vehicle overview" section.

The indicator will also flash for up to 5 minutes if the electrical power from the normal charge device is interrupted during charging. Charging will restart automatically when the electrical power from the normal charge device is restored if the normal charge device is connected. The charge start beep will not sound when charging restarts.

The indicator will also flash when the Climate Ctrl. Timer is operating.

### When not charging




None of the lights are illuminated when the Li-ion battery and 12-volt battery are not charging.

## CHARGING TROUBLESHOOTING GUIDE

| Symptom | Possible solution | |
|---|---|---|
| Charging cannot be performed. | The vehicle power switch is in the **ON** position. | Before charging, place the vehicle power switch in the **OFF** position. |
| | Both the normal charge connector and the quick charge connector are connected at the same time. | The normal charge and the quick charge cannot be operated at the same time. |
| | The Li-ion battery is already fully charged. | Confirm the available Li-ion battery power remaining by checking Li-ion battery available charge gauge. If the gauge indicates full, the Li-ion battery is already fully charged and cannot be charged. Charging automatically turns off if the Li-ion battery is fully charged. |
| | The temperature of the Li-ion battery is too high or low to charge. | Confirm the Li-ion battery temperature by checking the Li-ion battery temperature gauge. If the gauge indicates the Li-ion battery is too hot (red zone) or too cold (blue zone), charging may not be possible. Allow the Li-ion battery to cool down or warm up before charging. See ☞ "Trip computer" in the "2. Instruments and controls" section. |
| | The 12-volt battery is discharged. | The Li-ion battery cannot be charged if the vehicle electrical systems cannot be turned on. If the 12-volt battery is discharged, charge or jump start the 12-volt battery. See ☞ "Jump starting" in the "6. In case of emergency" section. |
| | The vehicle has a malfunction. | The vehicle or charger may have a malfunction. Confirm if the warning light on the meter is illuminated. Confirm if the indicator on the charger is indicating a malfunction. If a warning is displayed, stop charging and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. |
| Normal charge cannot be performed. | There is no electrical power coming from the normal charging station or domestic outlet. | Confirm that there has not been a power failure. Make sure the circuit breaker is active. If an domestic outlet or charging station with a timer device installed is used, power will only be available at the time set by the timer. |
| | The electrical plug is not connected correctly. | Confirm the electrical plug is connected correctly. |
| | There is no electrical power coming from the normal charging station. | Confirm operation procedure of the charging station. |
| | The charge connector is not connected correctly. | Confirm the charge connector is connected correctly. |
| Immediate charge cannot be performed. | Charging timer has been set. | Turn off the charging timer. See, ☞ "Charging timer" earlier in this section. |

| Symptom | Possible cause | Possible solution |
|---|---|---|
| Timer charging cannot be performed. | The charge cable is not connected. | Connect the charge cable. |
| | The time on the clock is wrong. | The charging timer does not start charging based on the clock located on the Vehicle Information Display. Adjust the time, see ☞ "[Clock]" in the "2. Instruments and controls" section. If the 12-volt battery is discharged or if the Li-ion battery is disconnected, the time setting must be updated. |
| | The immediate charge button has been pushed. | Charging timer does not operate when immediate charge is selected. |
| | Charging timer has not been set. | Set the charging timer schedule. See, ☞ "Charging timer" earlier in this section. |
| | Charging does not start because the charging timer start time and end time are set and the current time is before the set start time. | Confirm when the charging timer time is set to start charging. Change the charging timer setting to the desired charge time or press the immediate charge button. See, ☞ "Charging timer" earlier in this section. |

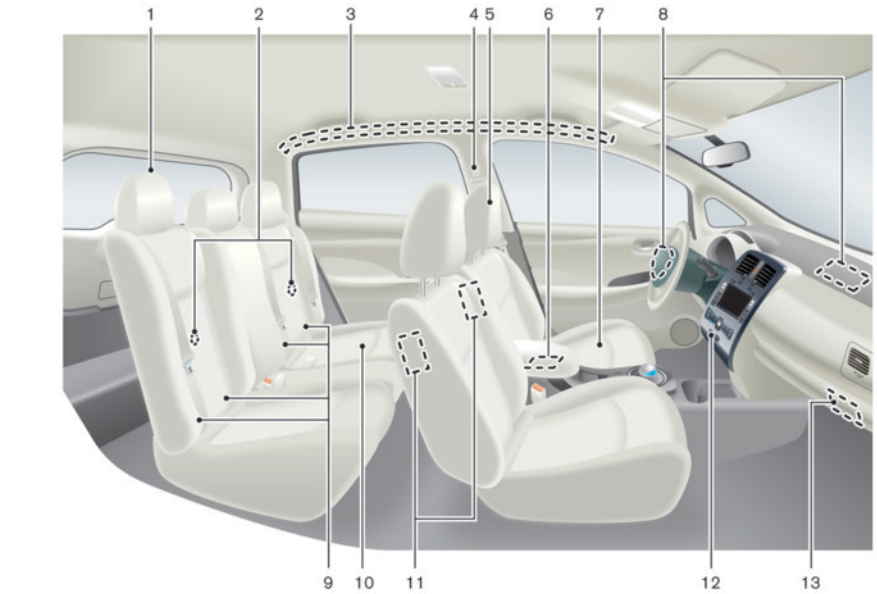
| Symptom | Possible cause | Possible solution |
|---|---|---|
| Normal charge stops during charging. | There is no electrical power coming from the normal charging station or domestic outlet. | There may have been an electrical power failure, or the circuit breaker may have failed. Charging will resume when the power source is reset. |
| | The charge cable has been disconnected. | Check that the charge cable has not been disconnected. |
| | Both the normal charge connector and the quick charge connector were connected at the same time. | If the normal charge connector and the quick charge connector are connected at the same time, charging will be stopped. |
| | Charging timer end time has been reached. | When the charging timer is set and the charge end time is reached, charging will be stopped, even if the Li-ion battery is not fully charged. |
| | The electrical power supply from the normal charging station was stopped | Confirm operation procedure of the charging station. |
| | The temperature of the Li-ion battery is too high or low to charge. | Confirm the Li-ion battery temperature by checking the Li-ion battery temperature gauge. If the gauge indicates the Li-ion battery is too hot (red zone) or too cold (blue zone), charging may not be possible. Allow the Li-ion battery to cool down or warm up before charging. See, ☞ "Trip computer" in the "2. Instruments and controls" section. |
| Quick charge cannot be performed. | Check that the charge connector is connected correctly and that it is locked. | Check that the charge connector is connected correctly and that it is locked. |
| | The self-diagnostic function of the quick charge device returns a negative result. | There is a possibility that the vehicle has a malfunction. Stop charging and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. |
| | The power switch of the quick charger is off. | Check the power switch of the quick charger. |
| Quick charge stops during charging. | Charging is stopped by the quick charge timer. | Charging will stop depending on the timer function setting of the quick charge device. If you need to charge the Li-ion battery more, start the charging procedure again. |
| | The power supply for the quick charger is off. | Check whether the power supply for the quick charger is off. |
| | Both the normal charge connector and the quick charge connector were connected at the same time. | If the normal charge connector and the quick charge connector are connected at the same time, charging will be stopped. |
| | The temperature of the Li-ion battery is too high or low to charge. | Confirm the Li-ion battery temperature by checking the Li-ion battery temperature gauge. If the gauge indicates the Li-ion battery is too hot (red zone) or too cold (blue zone), charging may not be possible. Allow the Li-ion battery to cool down or warm up before charging. See, ☞ "Trip computer" in the "2. Instruments and controls" section. |

NOTE

# 0 Illustrated table of contents

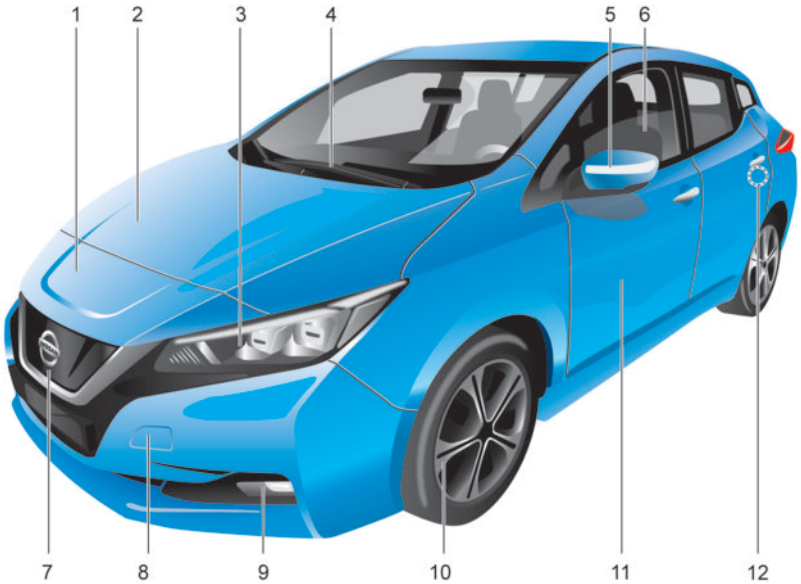

Seats, seat belts and Supplemental Restraint System (SRS) ..... 0-2
Exterior front ..... 0-3
Exterior rear ..... 0-4
Passenger compartment ..... 0-5
Cockpit ..... 0-6
Left-Hand Drive (LHD) model ..... 0-6
Right-Hand Drive (RHD) model ..... 0-7
Instrument panel ..... 0-8
Left-Hand Drive (LHD) model ..... 0-8
Right-Hand Drive (RHD) model ..... 0-9
Meters and gauges ..... 0-10
Motor compartment ..... 0-11
Warning and indicator lights ..... 0-12

## SEATS, SEAT BELTS AND SUPPLEMENTAL RESTRAINT SYSTEM (SRS)




1. Rear head restraints (P. 1-5)
2. Child restraint anchor points (for top tether strap child restraint) (P. 1-19)
3. Roof-mounted curtain side-impact supplemental air bags (P. 1-25)
4. Seat belts (P. 1-7)
5. Front head restraints (P. 1-5)
6. Seat belt pre-tensioners (P. 1-29)
7. Front seats (P. 1-3)
8. Supplemental front-impact air bags (P. 1-25)
9. ISOFIX child restraint system (P. 1-13)
10. Rear seats (P. 1-4)
    – Child restraints (P. 1-13)
11. Front seat-mounted side-impact supplemental air bags (P. 1-25)
12. Front passenger air bag status light (P. 1-0)
13. Front passenger air bag switch (P. 1-0)

## EXTERIOR FRONT

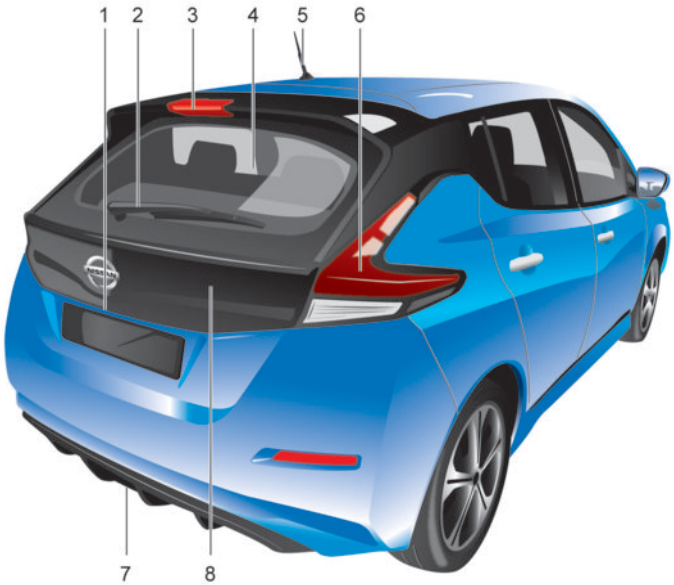



1. Charge port lid (P. 3-16)
2. Bonnet (P. 3-14)
3. Headlight and turn signal lights
   — Switch operation (P. 2-46)
   — Bulb replacement (P. 8-16)
4. Windscreen wiper and washer
   — Switch operation (P. 2-43)
   — Blade replacement (P. 8-10)
   — Window washer fluid (P. 8-8)
5. Outside mirrors (P. 3-18)
   — Side view camera* (P. 4-8)
   Side turn signal light
   — Switch operation (P. 2-46)
6. Power windows (P. 2-56)
7. Front view camera* (P. 4-8)
8. Recovery hook (P. 6-16)
9. Fog lights
   — Switch operation (P. 2-50)
   — Bulb replacement (P. 8-16)
10. Tyres
    — Wheels and tyres (P. 8-20, P. 9-4)
    — Flat tyre (P. 6-4)
11. Doors
    — Keys (P. 3-2)
    — Door locks (P. 3-3)
    — Intelligent Key system (P. 3-6)
    — Security system (P. 2-41)
12. Child safety rear door lock (P. 3-3)

*: where fitted

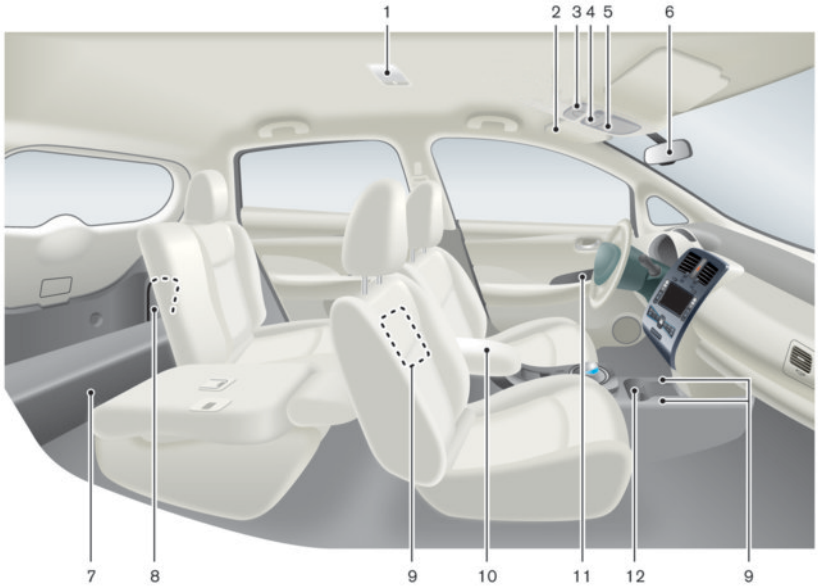
## EXTERIOR REAR

*: where fitted




1. Rear view camera* (P. 4-2, P. 4-8)
2. Rear window wiper and washer
   — Switch operation (P. 2-43)
   — Window washer fluid (P. 8-8)
3. High-mounted stop light (P. 8-16)
4. Rear window defogger (P. 2-45)
5. Antenna (P. 4-32)
6. Rear combination lights
   — Switch operation (P. 2-46)
   — Bulb replacement (P. 8-16)
7. Rear fog light
   — Fog light switch operation (P. 2-50)
8. Tailgate (P. 3-15)
   — Intelligent Key system (P. 3-6)

## PASSENGER COMPARTMENT

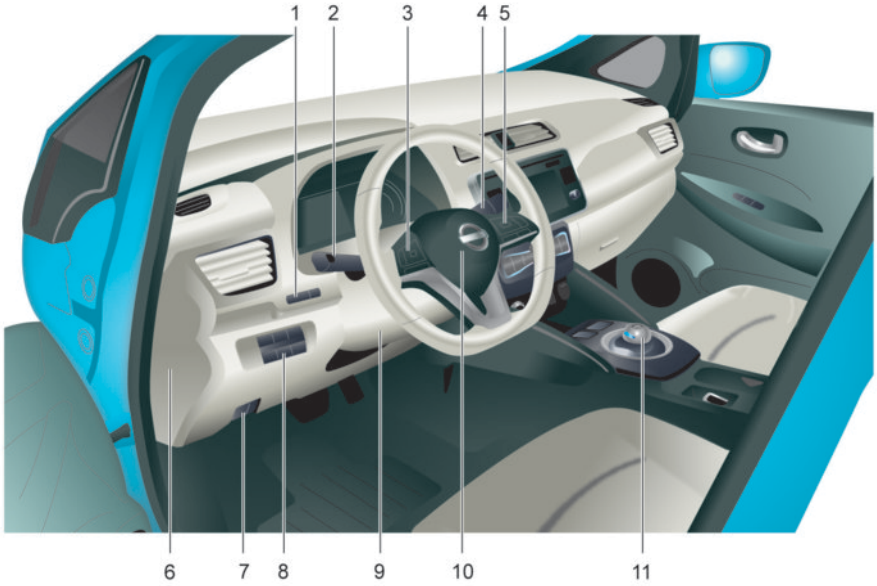



1. Rear interior light (P. 2-58)
2. Sun visors (P. 3-18)
3. Bluetooth® Hands-Free Phone System microphone*1, or (P. 4-48)*
4. Front interior lights (P. 2-58)
5. Map lights (P. 2-58)
6. Inside rearview mirror (P. 3-18)
7. Tonneau cover/Boot area (P. 2-53)
8. Emergency tyre puncture repair kit*/Tools (P. 6-3, P. 8-20)
9. Heated seat switches* (P. 2-51)
10. Console box (P. 2-53)
11. Door armrest
    — Power window switch (P. 2-56)
    — Power door lock switch (P. 3-3)
12. Front cup holders (P. 2-53)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual.

## COCKPIT

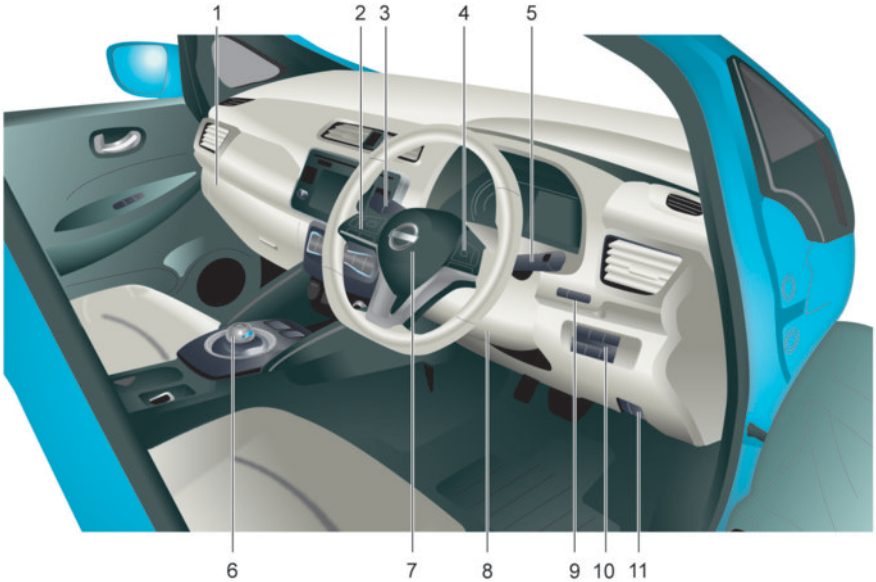



### LEFT-HAND DRIVE (LHD) MODEL

1. Trip computer switches (P. 2-20)
   — TRIP/RESET switch for twin trip odometer (P. 2-7)
   — Instrument brightness control switch (P. 2-46)
2. Headlight, fog light and turn signal switch
   — Headlight (P. 2-46)
   — Turn signal light (P. 2-49)
   — Fog light (P. 2-50)
3. Steering-wheel-mounted controls (left side)
   — Vehicle Information Display controls (P. 2-20)
   — Audio control*1, (P. 4-32)
4. Wiper and washer switch (P. 2-43)
5. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P. 5-38)
   — Intelligent Cruise Control (ICC) switches* (P. 5-40)
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
6. Fuse box cover (P. 8-12)
7. Bonnet opening lever (P. 3-14)
8. Lower instrument panel switches
   — Charge port lid opener switch (P. 3-16)
   — Immediate charge button (P. CH-19)
   — Heated steering wheel switch* (P. 2-52)
   — Approaching Vehicle Sound for Pedestrians (VSP) OFF switch (P. 2-60)
   — Intelligent Lane Intervention (ILI) switch* (P. 5-23)
9. Tilting steering wheel lever (P. 3-17)
10. Steering wheel
    — Electric power steering system (P. 5-72)
    — Horn (P. 2-51)
    — Driver's supplemental front-impact air bag (P. 1-25)
11. Shift lever (P. 5-12)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual



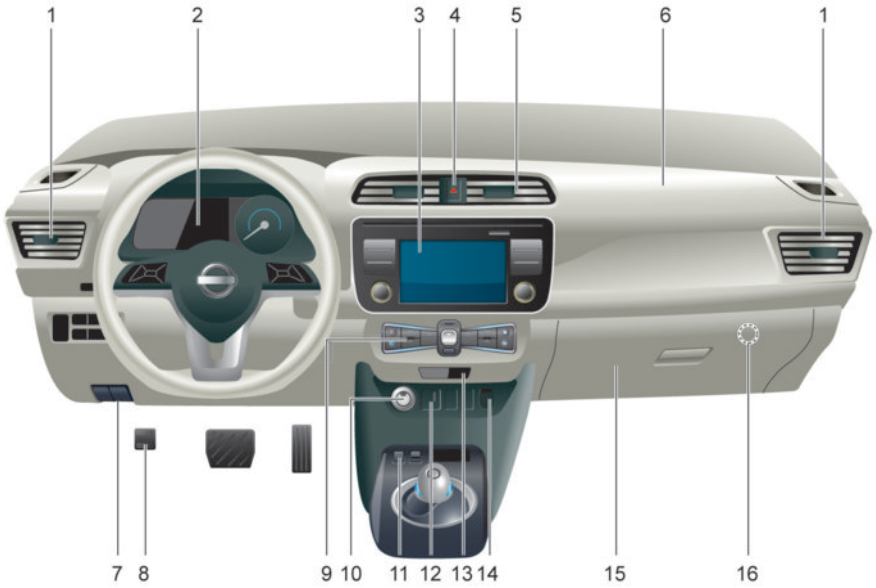

## RIGHT-HAND DRIVE (RHD) MODEL

1. Fuse box cover (P. 8-12)
2. Steering-wheel-mounted controls (left side)
   — Vehicle Information Display controls (P. 2-20)
   — Audio control*[1], or (P. 4-32)
   — Bluetooth® Hands-Free Phone System*[1], or (P. 4-48)*
3. Headlight, fog light and turn signal switch
   — Headlight (P. 2-46)
   — Turn signal light (P. 2-49)
   — Fog light (P. 2-50)
4. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P. 5-38)
   — Intelligent Cruise Control (ICC) switches* (P. 5-40)
5. Wiper and washer switch (P. 2-43)
6. Shift lever (P. 5-12)
7. Steering wheel
   — Electric power steering system (P. 5-72)
   — Horn (P. 2-51)
   — Driver's supplemental front-impact air bag (P. 1-25)
8. Tilting steering wheel lever (P. 3-17)
9. Trip computer switches (P. 2-20)
   — TRIP/RESET switch for twin trip odometer (P. 2-7)
   — Instrument brightness control switch (P. 2-46)
10. Lower instrument panel switches
    — Charge port lid opener switch (P. 3-16)
    — Immediate charge button (P. CH-19)
    — Heated steering wheel switch* (P. 2-52)
    — Approaching Vehicle Sound for Pedestrians (VSP) OFF switch (P. 2-60)
    — Intelligent Lane Intervention (ILI) switch* (P. 5-23)
11. Bonnet opening lever (P. 3-14)

*: where fitted

*[1]: See the separately provided NissanConnect Owner's Manual

## INSTRUMENT PANEL

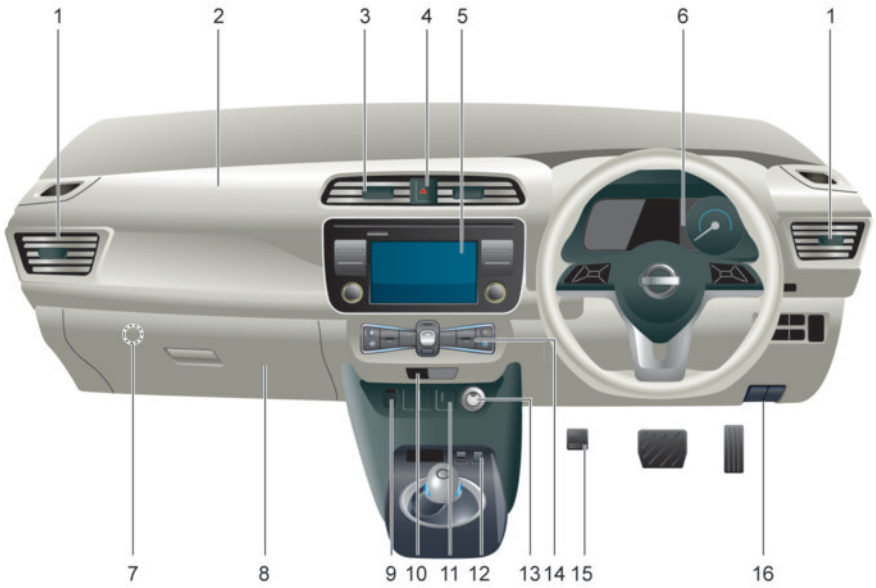



### LEFT-HAND DRIVE (LHD) MODEL

1. Side vent (P. 4-19)
2. Meters and gauges (P. 2-6)
3. Audio system*1, or (P. 4-26)*
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
   — Centre multi-function control panel*1
   — Navigation system*1
   — Vehicle information and setting buttons*1
4. Hazard warning flasher switch (P. 6-2)
5. Centre vent (P. 4-19)
6. Front passenger supplemental air bag (P. 1-25)
7. Bonnet release handle (P. 3-14)
8. Footpedal Parking brake* (P. 5-15)
9. Heater and air conditioner control (P. 4-19)
10. Power switch (P. 5-8)
11. Electric Parking brake* (P. 5-15)
12. iPod connector/USB connector*1, or (P. 4-41)*
    Auxiliary input socket*1, or (P. 4-41)*
13. Front passenger air bag status light (P. 1-0)
14. Power outlet (P. 2-53)
15. Glove box (P. 2-53)
16. Front passenger air bag switch (P. 1-0)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual



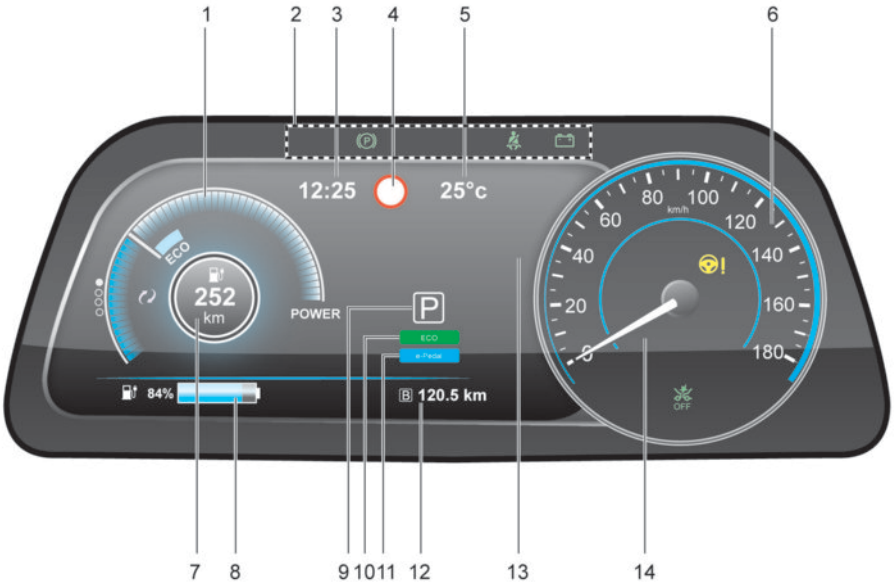

## RIGHT-HAND DRIVE (RHD) MODEL

1. Side vent (P. 4-19)
2. Front passenger supplemental air bag (P. 1-25)
3. Centre vent (P. 4-19)
4. Hazard warning flasher switch (P. 6-2)
5. Audio system*1, or (P. 4-26)*
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
   — Centre multi-function control panel*1
   — Navigation system*1
   — Vehicle information and setting buttons*1
6. Meters and gauges (P. 2-6)
7. Front passenger air bag switch (P. 1-0)
8. Glove box (P. 2-53)
9. Power outlet (P. 2-53)
10. Front passenger air bag status light (P. 1-0)
11. iPod connector/USB connector*1 or (P. 4-41)* Auxiliary input socket*1 or (P. 4-41)*
12. Electric Parking brake* (P. 5-15)
13. Power switch (P. 5-8)
14. Heater and air conditioner control (P. 4-19)
15. Footpedal Parking brake* (P. 5-15)
16. Bonnet release handle (P. 3-14)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual

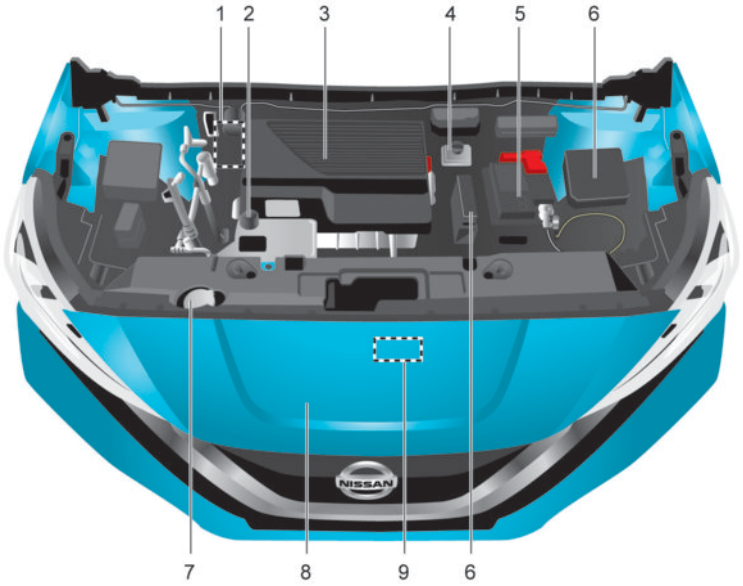
## METERS AND GAUGES




1. Power meter (P. 2-7)
2. Warning/indicator lights (P. 2-10)
   — Turn signal/Hazard indicator light (P. 2-19)
   — Seat belt warning light (P. 2-14)
3. Clock (P. 2-9)
4. Traffic Sign Recognition * (P. 2-39)
5. Outside air temperature (P. 2-9)
6. Speedometer (P. 2-6)
7. Driving range (P. 2-8)
8. Li-ion battery available charge gauge (P. 2-8)
9. Shift position indicator (P. 5-12)
10. ECO indicator (P. 2-9)
11. E—Pedal indicator (P. 2-9)
12. Odometer/twin trip odometer (P. 2-7)
13. Vehicle Information Display
    — Trip computer (P. 2-32)
    — Indicator for timer (P. 2-32)
    — Charging timer* (P. CH-18)
    — Climate Ctrl. timer* (P. 4-24)
14. Warning/indicator lights (P. 2-10)
    — READY to drive indicator light (P. 2-18)

*: where fitted

## MOTOR COMPARTMENT




1. Brake fluid reservoir — RHD (P. 8-7)
2. Coolant tank cap (P. 8-6)
3. Power delivery module (P. EV-5)
4. Brake fluid reservoir — LHD (P. 8-7)
5. 12-volt battery (P. 8-9)
   — Jump starting (P. 6-13)
6. Fuse/fusible link holder (P. 8-12)
7. Window washer fluid reservoir (P. 8-8)
8. Charge port lid (P. 3-16)
9. Charge port lid unlock screw (P. CH-0)

## WARNING AND INDICATOR LIGHTS

| Warning light | Name | Page |
|---|---|---|
|  | 12-volt battery charge warning light | (P. 2-11) |
|  | Anti-lock Braking System (ABS) warning light | (P. 2-12) |
|  | BRAKE system warning light (yellow) | (P. 2-12) |
|  | BRAKE warning light (red) | (P. 2-12) |
|  | Electric power steering warning light | (P. 2-13) |
|  | Electric shift control system warning light | (P. 2-13) |
|  | Electronic Stability Programme (ESP) warning light | (P. 2-13) |
|  | Electric vehicle system warning light | (P. 2-14) |
|   | Master warning light (red/yellow) | (P. 2-14) |

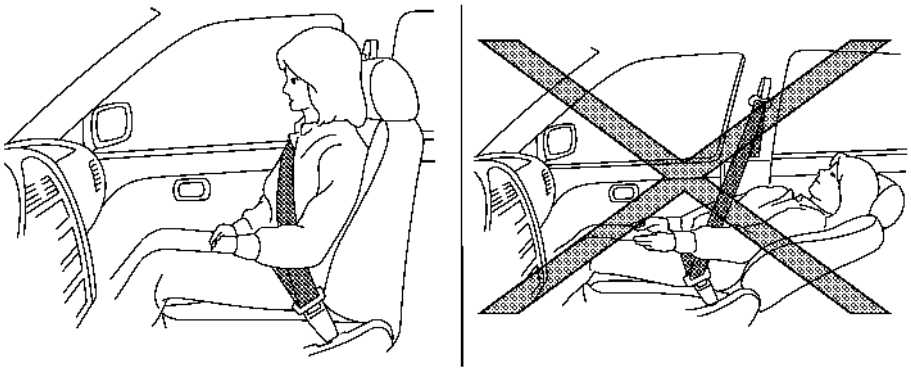
| Warning light | Name | Page |
|---|---|---|
|  | Seat belt warning light | (P. 2-14) |
|  | Supplemental air bag warning light | (P. 2-14) |
|  | Approaching Vehicle Sound for Pedestrians (VSP) OFF indicator light | (P. 2-60) |
|  | Power limitation indicator light | (P. 2-17) |
|  | Plug in indicator light | (P. 2-18) |
|  | READY to drive indicator light | (P. 2-18) |
|  | Electronic Stability Programme (ESP) OFF indicator light | (P. 2-18) |
|  | Front fog light indicator light | (P. 2-19) |
|  | Low tyre pressure warning light (where fitted) | (P. 2-15) |

| Warning light | Name | Page |
|---|---|---|
|  | Front passenger air bag status light | (P. 2-19) |
|  | High beam indicator light | (P. 2-19) |
|  | Rear fog light indicator light | (P. 2-19) |
|  | Security indicator light | (P. 2-19) |
|  | Small light indicator light | (P. 2-19) |
|  | Turn signal/hazard indicator lights | (P. 2-19) |
|  | Intelligent Emergency Braking OFF indicator light | (P. 2-14) |

# 1 Safety — seats, seat belts and supplemental restraint system


Seats ..... 1-2
Front seats ..... 1-3
Rear seats ..... 1-4
Head restraints ..... 1-5
Adjustable head restraints ..... 1-5
Seat belts ..... 1-7
Precautions on seat belt usage ..... 1-7
Pregnant women ..... 1-9
Injured persons ..... 1-9
Three-point type seat belt with retractor ..... 1-10
Seat belt maintenance ..... 1-12
Child safety ..... 1-12
Infants ..... 1-13
Small children ..... 1-13
Larger children ..... 1-13
Child restraints ..... 1-13
Precautions on child restraints ..... 1-13
Universal child restraints rear seats ..... 1-15
ISOFIX child restraint system ..... 1-18
Child restraint anchorage ..... 1-19
Child restraint installation using ISOFIX ..... 1-19
Child restraint installation using three-point type seat belt ..... 1-22
Supplemental Restraint System (SRS) ..... 1-25
Precautions on Supplemental Restraint System (SRS) ..... 1-25
Supplemental air bag systems ..... 1-31
Pre-tensioner seat belt system ..... 1-32
Repair and replacement procedure ..... 1-33

## SEATS



Sit upright and well back

### ⚠ WARNING

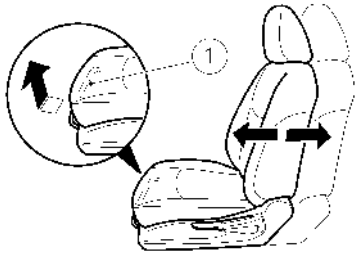
- Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.
- For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat properly. See ☞ "Precautions on seat belt usage" later in this section.
- After adjustment, gently rock in the seat to make sure it is securely locked.
- 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.
- 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.
- When moving the seats forward and rearward or returning a rear-reclined seatback to its upright position, make sure you hold onto the seatback with your hand while operating. If the seatback is not held, the seat will move suddenly and could cause injury.

### ⚠ CAUTION

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

## FRONT SEATS

### Front manual seat adjustment

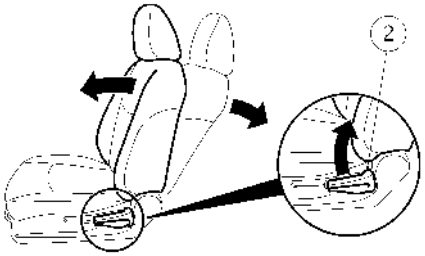



**Forward and backward:**

Pull the lever ① up and hold it while sliding the seat forward or backward to the preferred position. Release the lever to lock the seat in position.

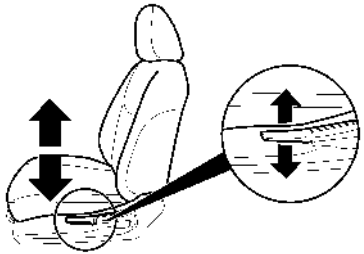
**Reclining:**

To recline the seatback, pull the lever ② up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.




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" later in this section. Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped and the vehicle is in the P (Park) position or N (Neutral) position with the parking brake applied.

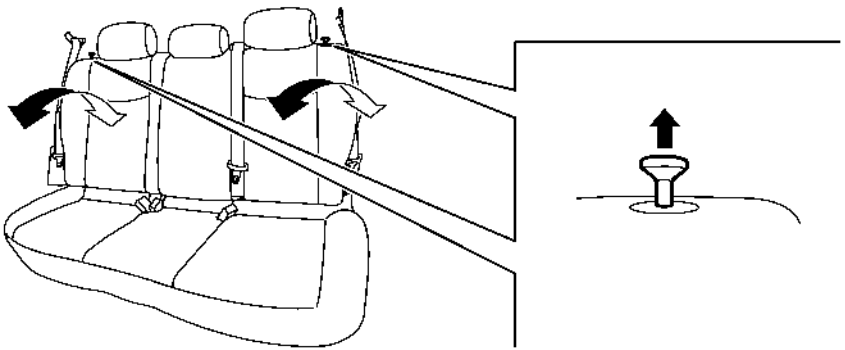
**Seat lifter (for driver's seat):**



Lift or lower the seat to the preferred position.

## REAR SEATS

### Folding



**Before folding the rear seats:**

- Secure the seat belts on the seat belt hooks located on the side wall. (See "Seat belt hooks" later in this section.)

To fold down the seatback, pull the release knob.

To return the seatback to the seating position, lift up each seatback and push it to the upright position until it is latched.

**⚠ WARNING**

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

## HEAD RESTRAINTS

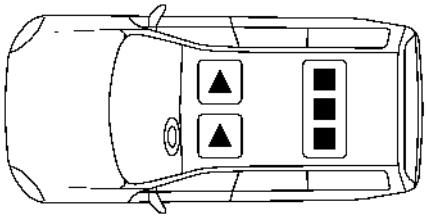
**⚠ WARNING**

**Head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjust the head restraints properly, as specified in this section. Check the adjustment after someone else has used 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 restraints. This may increase the risk of serious injury or death in a collision.**

### ADJUSTABLE HEAD RESTRAINTS

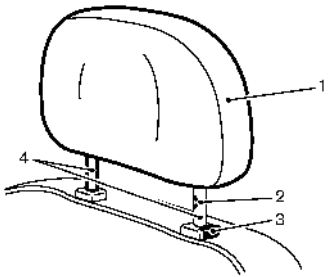
**⚠ WARNING**

**The adjustable head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjust the head restraints properly, as specified in this section. Check the adjustment after someone else has used the seat. Do not attach anything to the adjustable head restraint stalks or remove the adjustable head restraint. Do not use the seat if the adjustable head restraint has been removed. If the adjustable 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 adjustable head restraints. This may increase the risk of serious injury or death in a collision.**



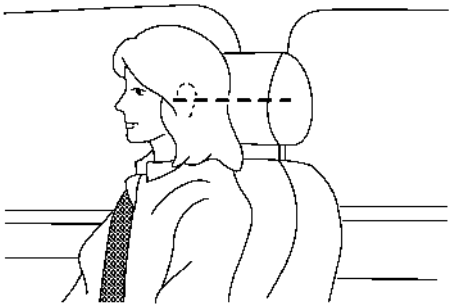
The illustration shows the seating positions equipped with adjustable head restraints.

### Components

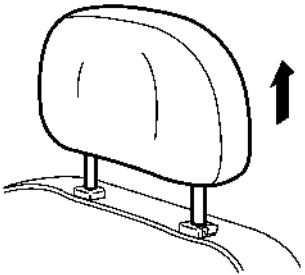



1. Adjustable head restraint
2. Adjustment notch
3. Lock knob
4. Stalks

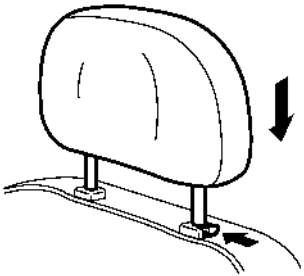
## Adjustment



Adjust the head restraint so the centre is level with the centre of your ears.

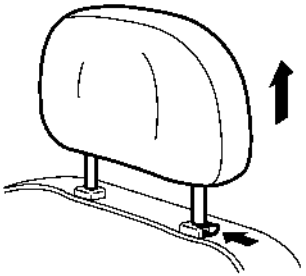


To raise the head restraint, pull it up.



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

## Removal

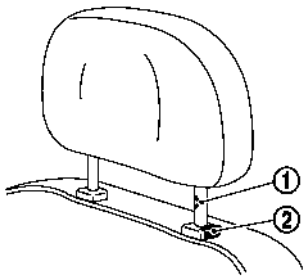


Use the following procedure to remove the adjustable head restraints:

Before removing the head restraints, fold down the seatback. ( ☞ "Folding" earlier in this section.)

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.

### Installation



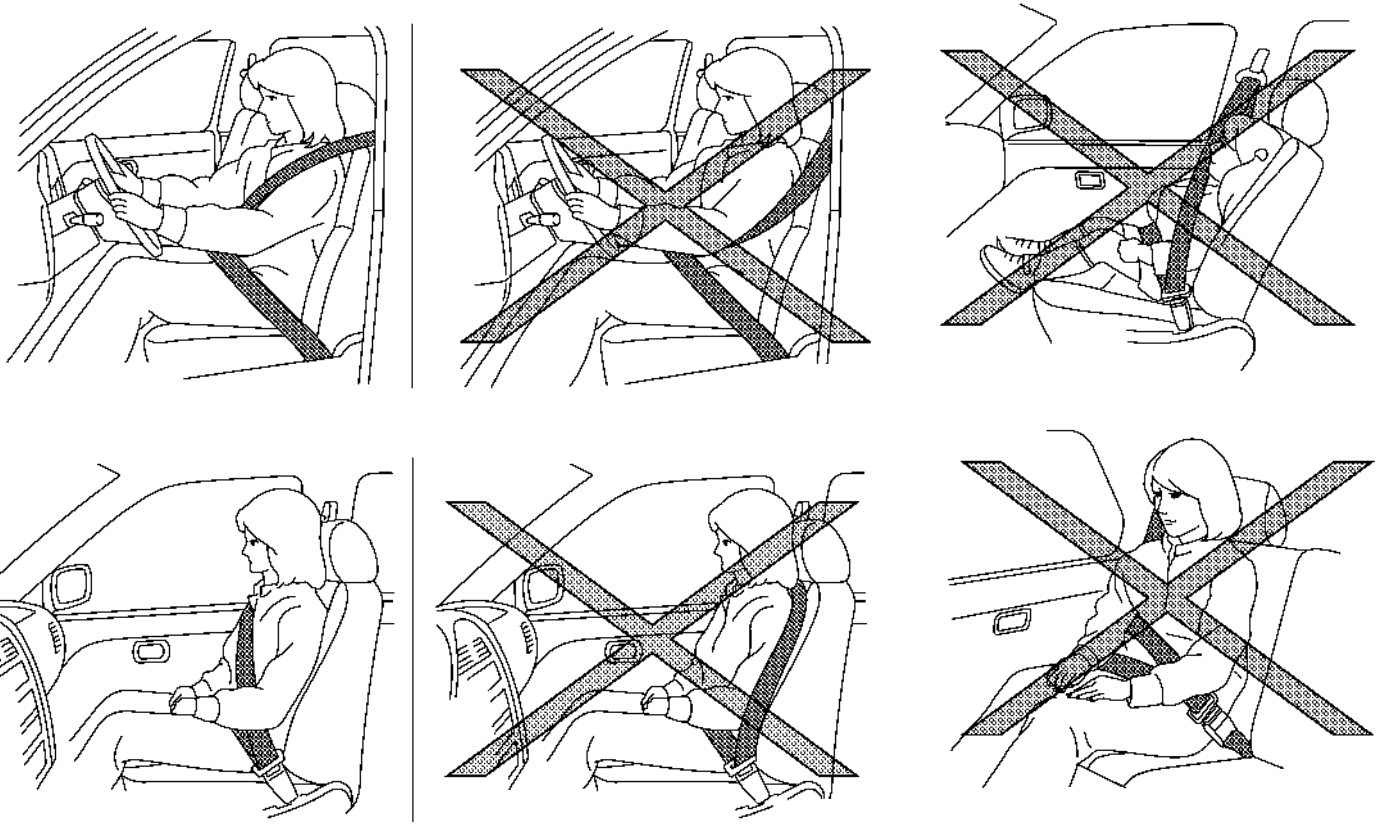

Before installing the head restraints, fold down the seatback. (See "Folding" earlier in this section.)

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

## SEAT BELTS

### PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted, and you are sitting upright and well back in your seat, your 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, regardless of whether or not your seating position includes a supplemental air bag.



## ⚠ WARNING

- Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be in the rear seats and in an appropriate restraint.
- The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.
- Always route the shoulder belt over your shoulder and across your chest. Never put the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.
- 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.
- Be sure the seat belt tongue is securely fastened to the proper buckle.
- Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.
- Do not allow more than one person to use the same seat belt.
- Never carry more people in the vehicle than there are seat belts.
- If the seat belt warning light illuminates continuously while the power switch is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.
- No changes should be made to the seat belt system. For example, do not modify the seat belt, add material, or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.
- Once a seat belt pre-tensioner has activated, it cannot be reused and must be replaced together with the retractor. See a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.
- Removal and installation of the pre-tensioner system components should be done by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.
- All seat belt assemblies, including retractors and attaching hardware, should be inspected by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer after any collision. 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 replaced if either damage or improper operation is noted.
- All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.

## PREGNANT WOMEN

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

## INJURED PERSONS

NISSAN recommends that injured persons use seat belts, depending on the injury. Check with your doctor for specific recommendations.

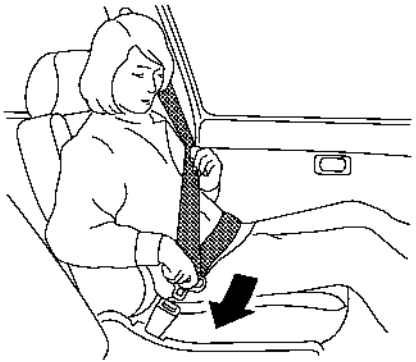
## THREE-POINT TYPE SEAT BELT WITH RETRACTOR

**⚠ WARNING**

- **Every person who drives or rides in this vehicle should use a seat belt at all times.**
- **Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.**
- **For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back and upright in the seat with both feet on the floor and adjust the seat belt properly.**

### Fastening the seat belts

1. Adjust the seat. (See ☞ "Seats" earlier in this section.)
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.



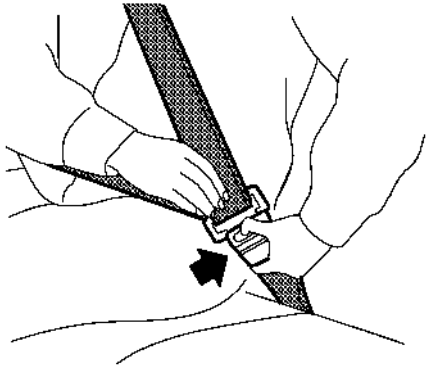
- **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the belt to move and allows you some freedom of movement in the seat.**
- **If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.**

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 across your chest.

## Unfastening the seat belts



To unfasten the seat belt, 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 by two separate methods:

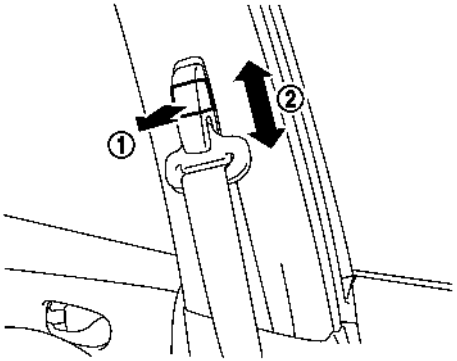
- When the belt is pulled quickly from the retractor.
- When the vehicle slows down rapidly.

To increase your confidence in the seat belts, check the operation as follows:

- Grasp the shoulder belt and pull forward quickly. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about seat belt operation, see a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## Shoulder belt height adjustment (for front seats)



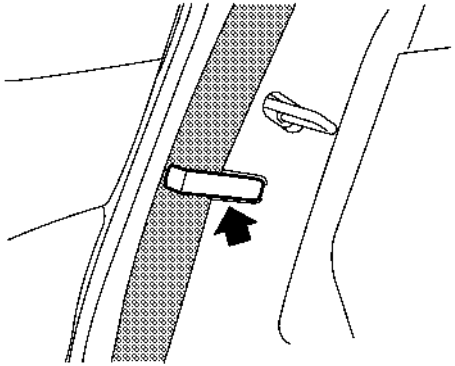

The shoulder belt anchor height should be adjusted to the position that is best for you. (See "Precautions on seat belt usage" earlier in this section.)

To adjust, pull the adjustment button ①, and then move the shoulder belt anchor to the preferred position ② so that the belt passes over the centre of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

### ⚠ WARNING

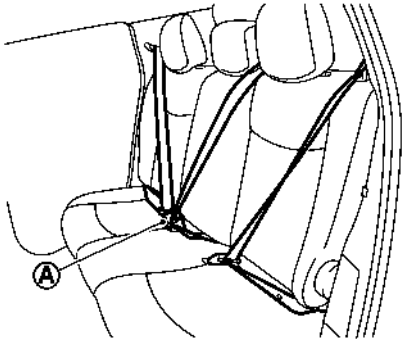
- **After adjustment, release the adjustment button and then try to move the shoulder belt anchor up and down to make sure that it is securely fixed in position.**
- **The shoulder belt anchor height should be adjusted to the position that is best for you. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

## Seat belt hooks



When the rear seat belts are not in use or when folding down the rear seats, hook the rear outer seat belts on the seat belt hooks.

### Centre of rear seat




**Selecting the correct seat buckle:**

The centre seat belt buckle is identified by the CENTER mark Ⓐ. The centre seat belt tongue can be fastened **only** into the centre seat belt buckle.

## SEAT BELT MAINTENANCE

- **To clean the seat belt webbing,** apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. 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.
- **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.
- **Periodically check to see that the seat belt and the metal components**, such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

## CHILD SAFETY

**Children need adults to help protect them.**

**They need to be properly restrained**

In addition to the general information in this manual, child safety information is available from many other sources, including doctors, teachers, government traffic safety offices, and community organizations. Every child is different, so be sure to learn the best way to transport your child.

There are two basic types of child restraint system:

- Rear-facing child restraints
- Front-facing child restraints

The proper restraint depends on the child's size. Generally, infants (up to about 1 year and less than 9 kg) should be placed in rear-facing child restraints. Front-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Always follow the child seat manufacturer's recommendations of use.

**⚠ 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 hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.**

A child restraint may be secured in the vehicle by using either the ISOFIX and Top Tether anchorages, or with the vehicle seat belt. See, ☞ "Child restraints" later in this section for more information.

**NISSAN recommends that all pre-teens and children be restrained in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.**

**This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger. (See, ☞ "Supplemental Restraint System (SRS)" later in this section.)**

**⚠ WARNING**

**Never let a child stand or kneel on any seat and do not allow a child in the cargo areas while the vehicle is moving. The child could be seriously injured or killed in an accident or sudden stop.**

## INFANTS

Infants up to at least 1 year old should be placed in a rear-facing child restraint. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

## SMALL CHILDREN

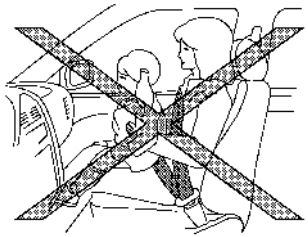
Children that are over 1 year old and weigh at least 9 kg can be placed in a front-facing child restraint. Refer to the manufacturer's instructions for minimum and maximum weight and height recommendations. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

## LARGER CHILDREN

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 system available for larger children that should be used for maximum protection.

# CHILD RESTRAINTS

## PRECAUTIONS ON CHILD RESTRAINTS



**⚠ WARNING**

- **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, it is dangerous to put a seat belt around a child being carried on the occupant's lap.**

- **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 hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury.**
- **Infants and small children should always be placed in an appropriate child restraint system while riding in the vehicle. Failure to use a child restraint system can result in serious injury or death.**
- **Child restraint systems specially designed for infants and small children are available from several manufacturers. When selecting any child restraint systems, place your child in the child restraint system and check the various adjustments to be sure that the child restraint system is compatible with your child. Always follow the manufacturer's instructions for installation and use.**
- **NISSAN recommends that the child restraint system be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat rather than in the front seat.**
- **Follow all of the child restraint system manufacturer's instructions for installation and use. When purchasing a child restraint system, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraint systems in your vehicle.**
- **Never install a rear-facing child restraint system on the front passenger seat without ensuring that the front passenger air bag is turned off, The vehicle is equipped with a manual front-passenger air bag deactivation system. The PASSENGER AIR BAG OFF indicator light must be lit. In a frontal collision, supplemental front-impact air bags inflate with great force. An inflating supplemental front-impact air bag could seriously injure or kill your child.**
- **Adjustable seatbacks should be positioned to fit a child restraint system, but as upright as possible.**
- **If the seat belt in the position where a child restraint system is installed requires a locking clip and if it is not used, injuries could result from a child restraint system tipping over during normal vehicle braking or cornering.**
- **After attaching a child restraint system, test it before you place the child in it. Tilt it from side to side. Try to tug it forward and check if it is held securely in place. The child restraint system should not move more than 25 mm (1 in). If the restraint is not secure, tighten the belt as necessary, or install the restraint in another seat and test it again.**
- **Check the child restraint system in your vehicle to be sure that it is compatible with the vehicle's seat belt system.**
- **If a child restraint system is not anchored properly, the risk of a child being injured in a collision or a sudden stop greatly increases.**
- **Improper use of a child restraint system can increase the risk or severity of injury for both the child and other occupants in the vehicle.**
- **Always use an appropriate child restraint system. An improperly installed child restraint system could lead to serious injury or death in an accident.**
- **When the child restraint system 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.**

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 always follow the manufacturer's instructions for installation and use. In addition, there are many types of child restraint systems available for larger children that should be used for maximum protection.

**⚠ CAUTION**

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

## UNIVERSAL CHILD RESTRAINTS REAR SEATS

**NOTE:**
**Child restraints approved to UN Regulation NO. 44 or NO. 129 are clearly marked with the categories such as Universal, Semi-universal, ISOFIX and i-Size.**

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

- Choose a child restraint that complies with the latest European safety standard, ECE Regulation 44 or 129.
- 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.

## Approved child restraint positions (without ISOFIX)

| Mass group | | Seating position | | |
|---|---|---|---|---|
| | | Front passenger seat | 2nd row | |
| | | with front passenger air bag | Outboard seat | Centre seat*3 |
| 0 | < 10 kg | X | U, L *2 | U *2 |
| 0+ | < 13 kg | X | U, L *2 | U *2 |
| I | 9 to 18 kg | X | U, L *1, 2 | U *1, 2 |
| II | 15 to 25 kg | X | U, L *1, 2 | U *1, 2 |
| III | 22 to 36 kg | X | U, L *1, 2 | U *1, 2 |

U: Suitable for "Universal" category - child restraints - approved for use in this weight group.

L: Suitable for particular child restraints systems of the "Specific for the vehicle", "Restricted", or "Semi-universal" categories, approved for this mass group.

X: Not suitable for a child restraint system.

*1: Move the head restraint to the upper most position or, if necessary, remove it in case of any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

*2: Adjust the front seat(s) slide position sufficiently forward and/or the seat height adjustment (if available) to the upper most position to ensure no contact between child seat and back of front seat.

*3: Suitable only for "Universal" category of restraints. Do not install restraints with support leg.

## Approved child restraint positions (with ISOFIX)

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

| Mass group | | | Seating position | | |
|---|---|---|---|---|---|
| | | | Front passenger seat | 2nd row | |
| | | | | Outboard seat | Centre seat |
| Carry-cot | F | ISO/L1 | X | X | X |
| | G | ISO/L2 | X | X | X |
| 0 (<10 kg) | E | ISO/R1 | X | IL *2 | X |
| 0+ (<13 kg) | E | ISO/R1 | X | IL *2 | X |
| | D | ISO/R2 | X | IL *2 | X |
| | C | ISO/R3 | X | IL *2 | X |
| I (9 - 18 kg) | D | ISO/R2 | X | IL *2 | X |
| | C | ISO/R3 | X | IL *2 | X |
| | B | ISO/F2 | X | IUF/IL *2 | X |
| | B1 | ISO/F2X | X | IUF/IL *2 | X |
| | A | ISO/F3 | X | IUF/IL *2 | X |
| II (15 - 25 kg) | | — | X | IL *1, 2 | X |
| III (22 - 36 kg) | | — | X | IL *1, 2 | X |

X: Position not suitable for installation of ISOFIX child restraint systems (CRS) in these seating positions.

IUF: Suitable for ISOFIX forward facing CRS of universal category approved for use in the mass group.

IL: Suitable for particular ISOFIX child restraint systems of the "Specific for the vehicle", "Restricted", or "Semi-universal" categories, approved for this type of vehicle.

*1: Move the head restraint to the upper most position or, if necessary, remove it in case if any interference with the child restraint. Do not remove head restraint when using a booster cushion only.

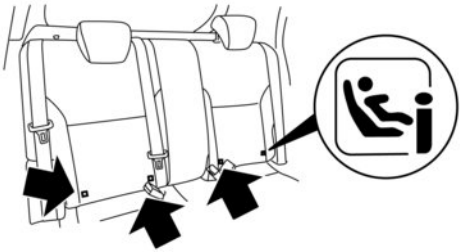
*2: Adjust the front seat(s) slide position sufficiently forward and/or the seat height adjustment (if available) to the upper most position to ensure no contact between child seat and back of front seat.

## ISOFIX CHILD RESTRAINT SYSTEM

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

### ISOFIX lower anchor point locations

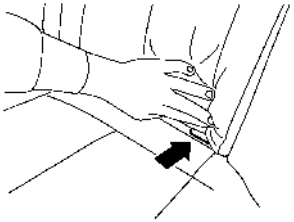
The ISOFIX anchor points are provided to install child restraints in the front passenger and rear outboard seating positions only. **Do not attempt to install a child restraint in the centre position using the ISOFIX anchors.**



**i-Size label location for rear seats**



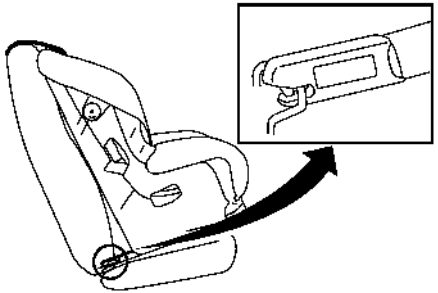
**i-Size label location for front seat**



**i-Size lower anchor location**

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

### ISOFIX child restraint anchor attachments



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 or i-Size child restraints. This information may also be in the instructions provided by the child restraint manufacturer.

ISOFIX or i-Size 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 ☞ "ISOFIX child restraint system" later in this section.

## CHILD RESTRAINT ANCHORAGE

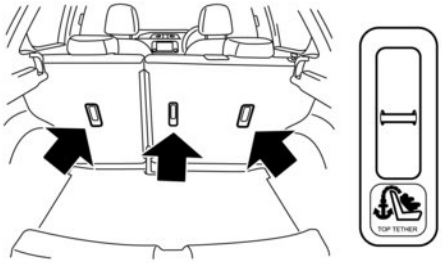
Your vehicle is designed to accommodate a child restraint system on the front passenger and rear outboard seating. When installing a child restraint system, carefully read and follow the instructions in this manual and those supplied with the child restraint system.

### ⚠ WARNING

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

**Rear seats:**




The top tether anchor points are located on the seat back behind the rear seats.

## CHILD RESTRAINT INSTALLATION USING ISOFIX

### ⚠ WARNING

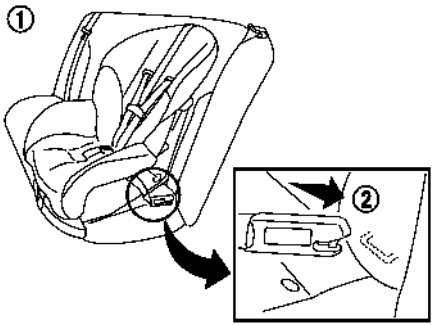
- **Attach ISOFIX and i-Size child restraints only at the specified locations. For the ISOFIX lower anchor locations, see ☞ "ISOFIX lower anchor point locations" earlier in this section. If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **Do not install child restraints that require the use of a top tether strap to seating positions that do not have a top tether anchor.**
- **Do not secure a child restraint in the centre rear seating position using the ISOFIX lower anchors. The child restraint will not be secured properly.**
- **Inspect the lower anchors by inserting your fingers into the lower anchor area and feeling to make sure there are no obstructions over the ISOFIX anchors, such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the ISOFIX anchors are obstructed.**

- **Child restraint anchorages are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstance are they to be used for adult seat belts, or other items or equipment to the vehicle. Doing so could damage the child restraint anchorages. The child restraint will not properly installed using the damaged anchorage, and a child could be seriously injured or killed in a collision.**

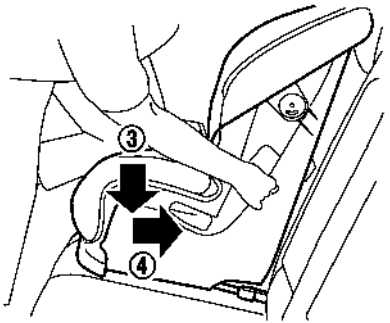
## Installation on rear outboard seats

**Front-facing child seats:**

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 and rear outboard seats using ISOFIX:

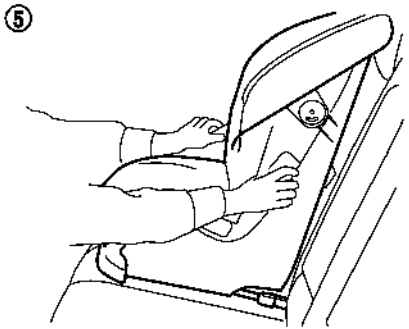



1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.
3. The back of the child restraint should be secured against the vehicle seat back. If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. (See "Head restraints" earlier in this section.) 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.




4. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the centre of the child restraint with your knee to compress the vehicle seat cushion and seatback.

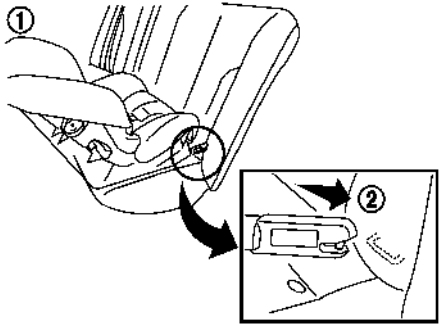
5. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See ☞ "Child restraint anchorage" earlier in this section.)
6. If the child restraint is equipped with other anti-rotation devices such as support legs, use them instead of the top tether strap following the child restraint manufacturer's instructions.




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

**Rear-facing child seats:**

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

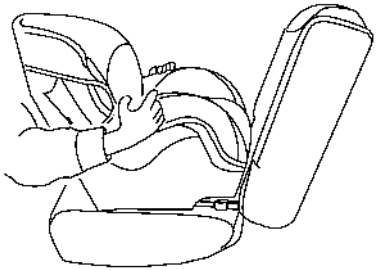



1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.




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

⑤



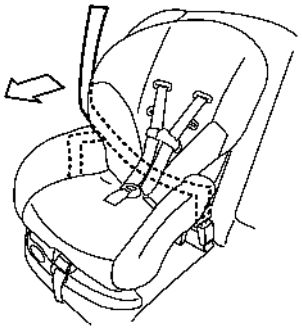
6. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
7. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps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

## CHILD RESTRAINT INSTALLATION USING THREE-POINT TYPE SEAT BELT

### Installation on rear seats

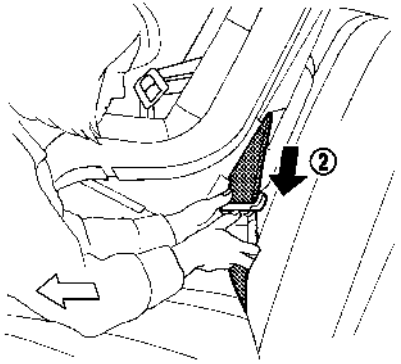
**Front-facing:**

①

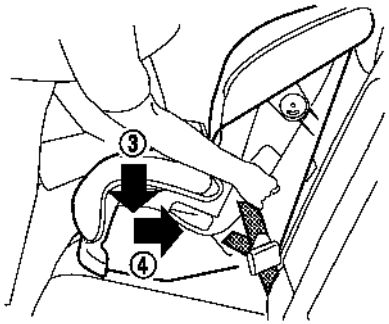


Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a front-facing child restraint on the rear seats using 3-point type seat belt without automatic locking mode:

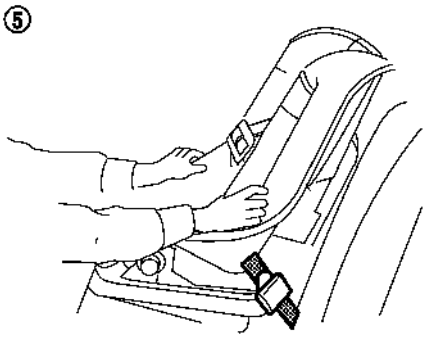
1. Position the child restraint on the seat ①.




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

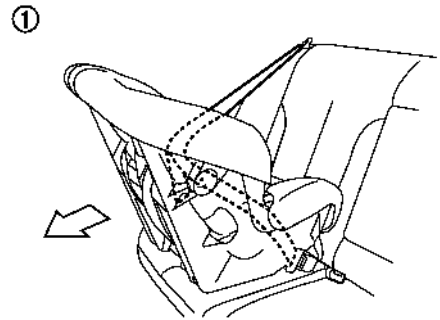



4. Remove any additional slack from the seat belt; press downward ③ and rearward ④ firmly in the centre of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



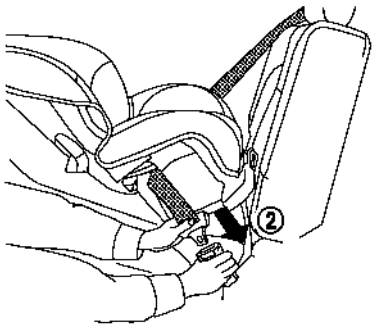

5. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
6. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps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

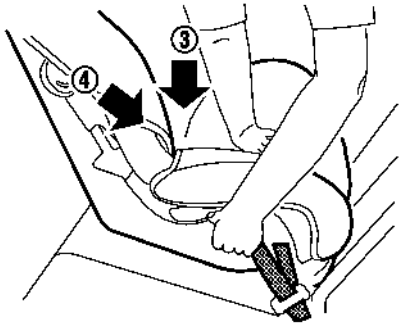
**Rear-facing:**

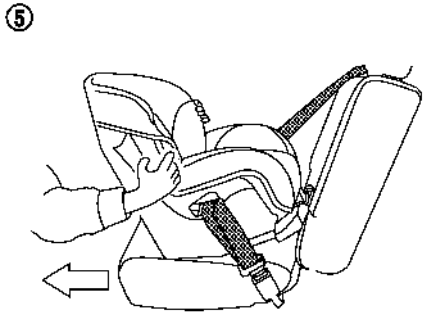



Be sure to follow the manufacturer's instructions for the proper use of your child restraint. Follow these steps to install a rear-facing child restraint on the rear seats using 3-point type seat belt without automatic locking mode:

1. Position the child restraint on the seat ①.




2. Route the seat belt tongue through the child restraint and insert it into the buckle ② until you hear and feel the latch engage.
3. To prevent slack in the seat belt webbing, it is necessary to secure the seat belt in place with locking devices attached to the child restraint.
4. Remove any additional slack from the seat belt; press downward ③ and rearward ④ firmly in the centre of the child restraint with your hand to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
5. Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
6. Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 5.

# SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

## 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, front seat-mounted side-impact supplemental air bags, roof-mounted 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.

### Front seat-mounted side-impact supplemental air bag system

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

### Roof-mounted curtain side-impact supplemental air bag system

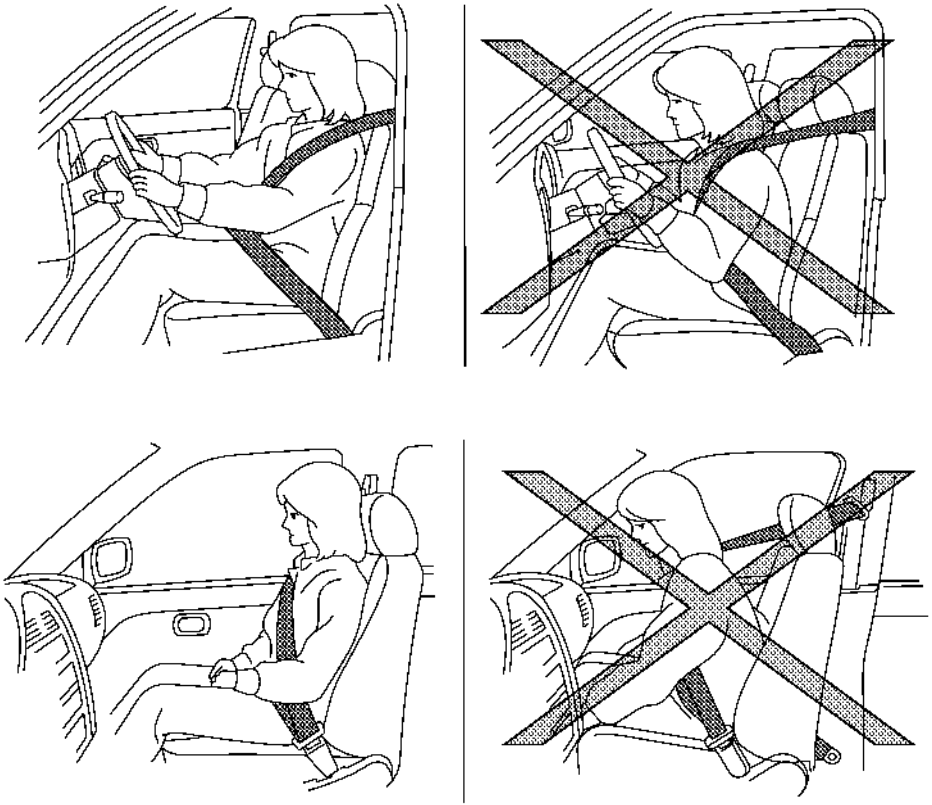
This system can help cushion the impact force to the head of the driver and passengers in front and rear outboard seating positions in certain side-impact collisions. The roof-mounted curtain side-impact supplemental air bag is designed to inflate on the side where the vehicle is impacted.

The SRS is designed to **supplement** the accident protection provided by the driver's seat belt and **is not** designed to **substitute** for it. 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. See ☞ "Seat belts" earlier in this section. 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.

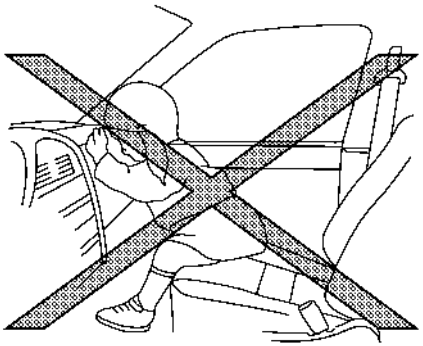
**The SRS operates only when the power switch is in the ON position.**

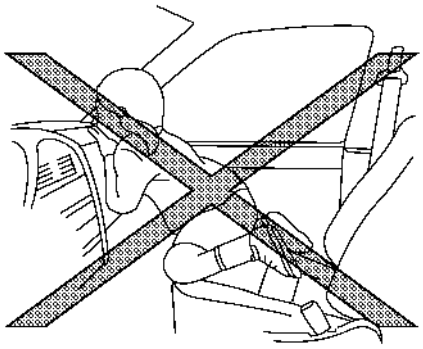
**When the power switch is in the ON position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS is operational. See ☞ "Child restraints" later in this section.**

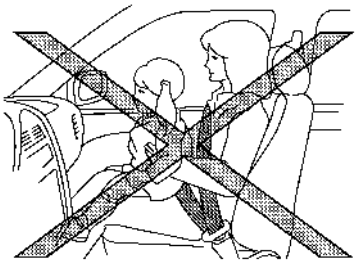


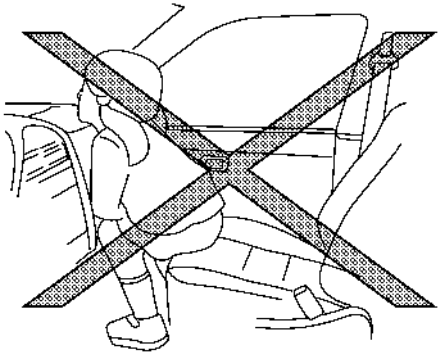
**⚠ WARNING**

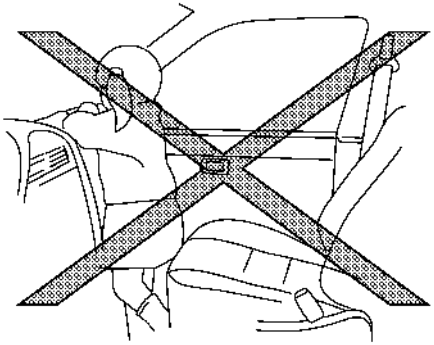
- **The supplemental front-impact air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear the seat belts to help reduce the risk or severity of injury in accidents.**
- **The seat belts and the supplemental front-impact 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 are unrestrained, leaning forward, sitting sideways, or out of position in any way, you are at greater risk of injury or death in an accident. You 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. Always use the seat belts.**

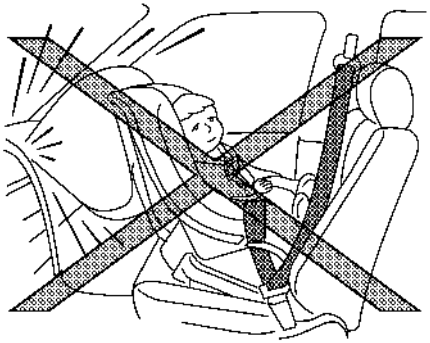






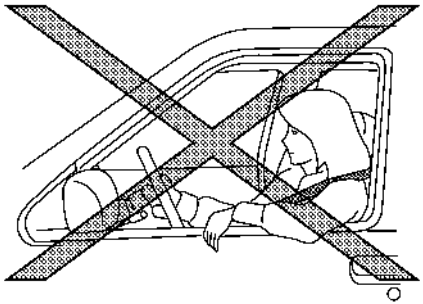


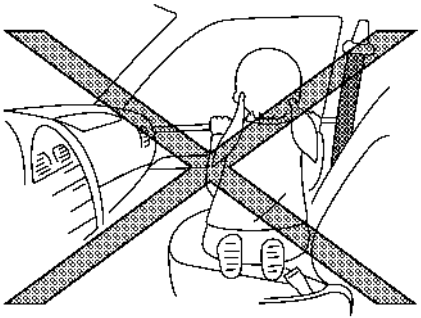


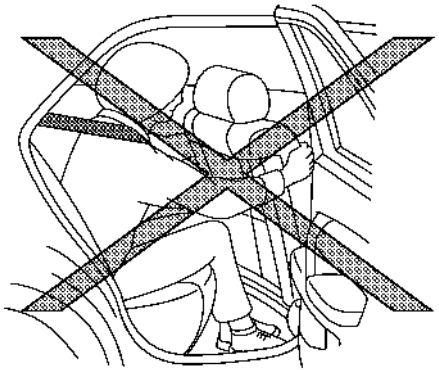


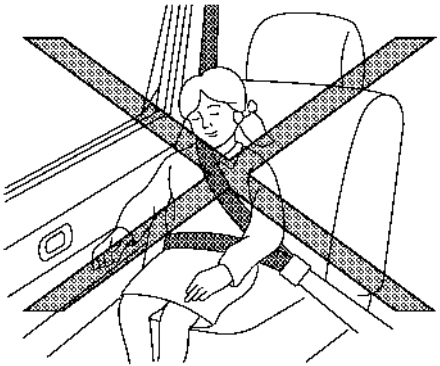
## ⚠ WARNING

- 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" earlier in this section.









## ⚠ WARNING

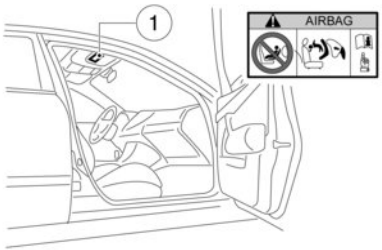
- **The front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags ordinarily will not inflate in the event of a front impact, rear impact, rollover, or lower severity side collision. Always wear the seat belts to help reduce the risk or severity of injury in accidents.**
- **The seat belts and the front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags are most effective when you are sitting well back and upright in the seat. The front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental 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 front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags 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 or rear outboard seats to extend their hands out of the windows or lean against the doors. Some examples of dangerous riding positions are shown in the illustrations.**
- **When sitting in the rear seats, do not hold onto the seatback of the front seats. If the front seat-mounted side impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags inflate, you may be seriously injured. Be especially careful with children, who should always be properly restrained.**
- **Do not use seat covers on the front seatbacks. They may interfere with the front seat-mounted side-impact supplemental air bag inflations.**

### Pre-tensioner seat belt system

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

Working with the seat belt retractor and anchor, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants. See "Child restraints" later in this section.

### Air bag warning label




**SRS air bag:**

The warning label ① is located on the surface of the passenger's sun visor.

## SRS air bag warning light



The SRS air bag warning light, displaying in the instrument panel, monitors the circuits of the supplemental front-impact air bag, front seat-mounted side-impact supplemental air bag, supplemental curtain side-impact air bags and pre-tensioner seat belt systems. The circuits monitored by the SRS air bag warning light are the diagnosis sensor unit, crash zone sensor, satellite sensors, front impact air bag modules, front seat-mounted side-impact supplemental air bag modules, roof-mounted curtain side-impact supplemental air bag modules, pre-tensioner seat belts and all related wiring.

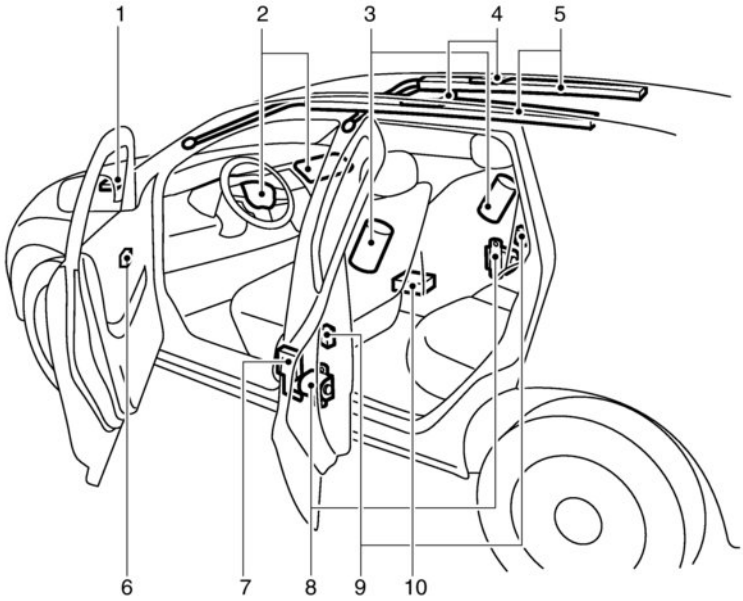
When the power switch is in the **ON** or **READY** to drive position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS air bag systems are operational.

If any of the following conditions occur, the air bag 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 systems may not operate properly. They must be checked and repaired. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer immediately.

## SUPPLEMENTAL AIR BAG SYSTEMS




1. Crash zone sensor
2. Supplemental front-impact air bag modules
3. Front seat-mounted side-impact supplemental air bag modules
4. Roof-mounted curtain side-impact supplemental air bags inflators
5. Roof-mounted curtain side-impact supplemental air bag modules
6. Door pressure sensor
7. Lap outer pre-tensioner (driver's side)
8. Seat belt with pre-tensioners
9. Satellite sensors
10. Air bag Control Unit (ACU)

**⚠ WARNING**

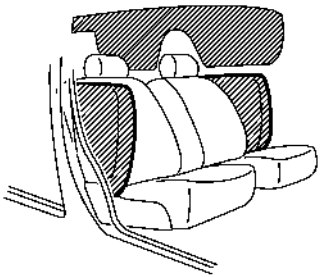
- **Do not place any objects on the steering wheel pad. Do not place any objects between the driver and steering wheel pad. Such objects may become dangerous projectiles and cause injury if a supplemental air bag inflates.**
- **Immediately after inflation, several supplemental air bag system components will be hot. Do not touch them: you may severely burn yourself.**
- **No unauthorised 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 unauthorised changes to your vehicle's electrical system, suspension system or front end structure. 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 by placing materials over the steering wheel pad and above, and by installing additional trim materials around the supplemental air bag systems.**
- **Work around and on the supplemental air bag systems should be done by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. The SRS wiring should not be modified or disconnected. Unauthorised 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.

When an impact that could activate the supplemental air bags is detected, the hazard warning flasher lights are activated automatically. See, "Hazard warning flasher switch" earlier in this section for more information.

## Front seat-mounted side-impact supplemental air bag system



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

The front seat-mounted side-impact supplemental 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 front seat-mounted side-impact supplemental air bag system operation.

## Roof-mounted curtain side-impact supplemental air bag system

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

The roof-mounted curtain side-impact supplemental 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 roof-mounted curtain side-impact supplemental air bag system operation.

## 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

- **No unauthorised 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. The SRS wiring should not be modified or disconnected. Unauthorised 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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 and anchor. These seat belts are used the same as conventional seat belts.

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

## REPAIR AND REPLACEMENT PROCEDURE

### ⚠ WARNING

- **Once the air bags have been inflated, the air bag modules will not function and must be replaced. The air bag modules must be replaced by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. The inflated air bag modules cannot be repaired.**
- **The air bag systems should be inspected by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. Correct disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**

The air bags 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

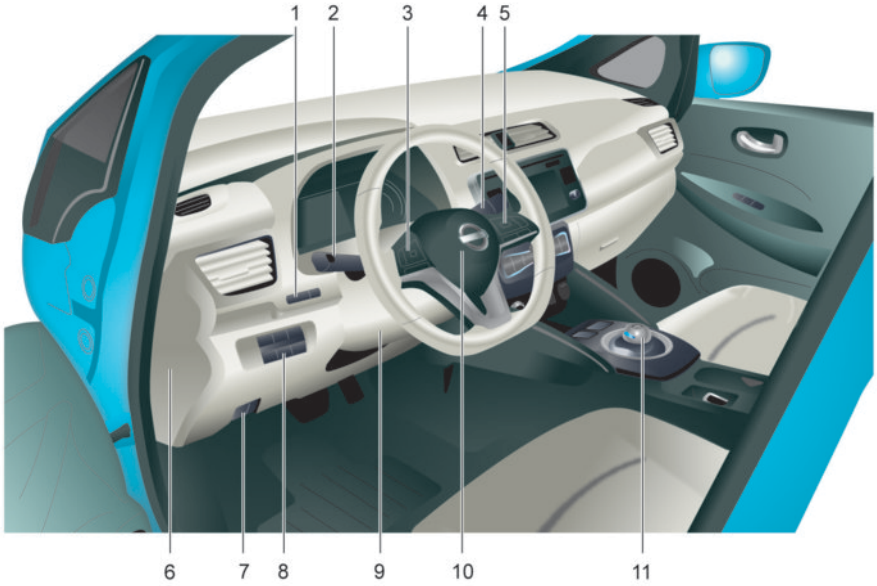
When maintenance work is required on the vehicle, information about the air bags and related parts should be pointed out to the person performing the maintenance. The power switch should always be in the **LOCK** position when working under the bonnet or inside the vehicle.

# 2 Instruments and controls


Cockpit ..... 2-2
Left-Hand Drive (LHD) model ..... 2-2
Right-Hand Drive (RHD) model ..... 2-3
Instrument panel ..... 2-4
Left-Hand Drive (LHD) model ..... 2-4
Right-Hand Drive (RHD) model ..... 2-5
Meters and gauges ..... 2-6
Speedometer ..... 2-6
Odometer/twin trip odometer ..... 2-7
Power meter ..... 2-7
Driving range ..... 2-8
Li-ion battery available charge gauge ..... 2-8
ECO mode indicator ..... 2-9
e-Pedal system indicator ..... 2-9
Outside air temperature ..... 2-9
Clock ..... 2-9
Warning lights, indicator lights, and audible reminders ..... 2-10
Checking lights ..... 2-11
Warning lights ..... 2-11
Indicator lights ..... 2-17
Audible reminders ..... 2-19
Vehicle Information Display ..... 2-20
Operation ..... 2-21
Settings ..... 2-21
Indicators for operation ..... 2-29
Trip computer ..... 2-32
Warning information displays (models with navigation system) ..... 2-37
Timer display ..... 2-38
ECO Drive report ..... 2-39
Traffic Sign Recognition (where fitted) ..... 2-39
Security system ..... 2-41
Theft warning system (where fitted) ..... 2-41
NISSAN Anti-Theft System (NATS) ..... 2-42
Windscreen wiper and washer switch ..... 2-43
Washer operation: ..... 2-44
Rain-sensing auto wiper system ..... 2-44
Rear window wiper and washer switch ..... 2-45
Rear window and outside mirror defogger switch (where fitted) ..... 2-45
Instrument brightness control ..... 2-46
Headlight and turn signal switch ..... 2-46
Headlight switch ..... 2-46
Turn signal switch ..... 2-49
Fog light switch ..... 2-50
Front fog lights (where fitted) ..... 2-50
Rear fog light (where fitted) ..... 2-50
Horn ..... 2-51
Heated seats (where fitted) ..... 2-51
Heated steering wheel (where fitted) ..... 2-52
Power outlet ..... 2-53
Storage ..... 2-53
Cup holders ..... 2-53
Glove box ..... 2-54
Console box ..... 2-54
Coat hooks ..... 2-55
Tonneau cover (where fitted) ..... 2-55
Mode 3 cable storage net ..... 2-56
Windows ..... 2-56
Power windows ..... 2-56
Interior lights ..... 2-58
Room light ..... 2-58
Front map lights ..... 2-59

Rear interior light ..... 2-59
Luggage compartment light ..... 2-59
Glove box light ..... 2-59
Approaching Vehicle Sound for Pedestrians (VSP) OFF switch ..... 2-60

## COCKPIT

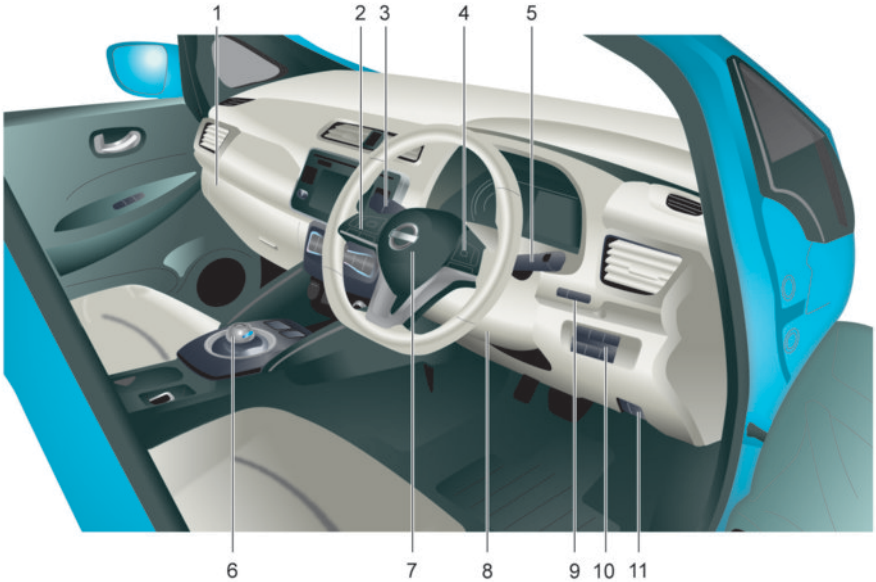



### LEFT-HAND DRIVE (LHD) MODEL

1. Trip computer switches (P. 2-20)
   — TRIP/RESET switch for twin trip odometer (P. 2-7)
   — Instrument brightness control switch (P. 2-46)
2. Headlight, fog light and turn signal switch
   — Headlight (P. 2-46)
   — Turn signal light (P. 2-49)
   — Fog light (P. 2-50)
3. Steering-wheel-mounted controls (left side)
   — Vehicle Information Display controls (P. 2-20)
   — Audio control*1, (P. 4-32)
4. Wiper and washer switch (P. 2-43)
5. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P. 5-38)
   — Intelligent Cruise Control (ICC) switches* (P. 5-40)
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
6. Fuse box cover (P. 8-12)
7. Bonnet opening lever (P. 3-14)
8. Lower instrument panel switches
   — Charge port lid opener switch (P. 3-16)
   — Immediate charge button (P. CH-19)
   — Heated steering wheel switch* (P. 2-52)
   — Approaching Vehicle Sound for Pedestrians (VSP) OFF switch (P. 2-60)
   — Intelligent Lane Intervention (ILI) switch* (P. 5-23)
9. Tilting steering wheel lever (P. 3-17)
10. Steering wheel
    — Electric power steering system (P. 5-72)
    — Horn (P. 2-51)
    — Driver's supplemental front-impact air bag (P. 1-25)
11. Shift lever (P. 5-12)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual



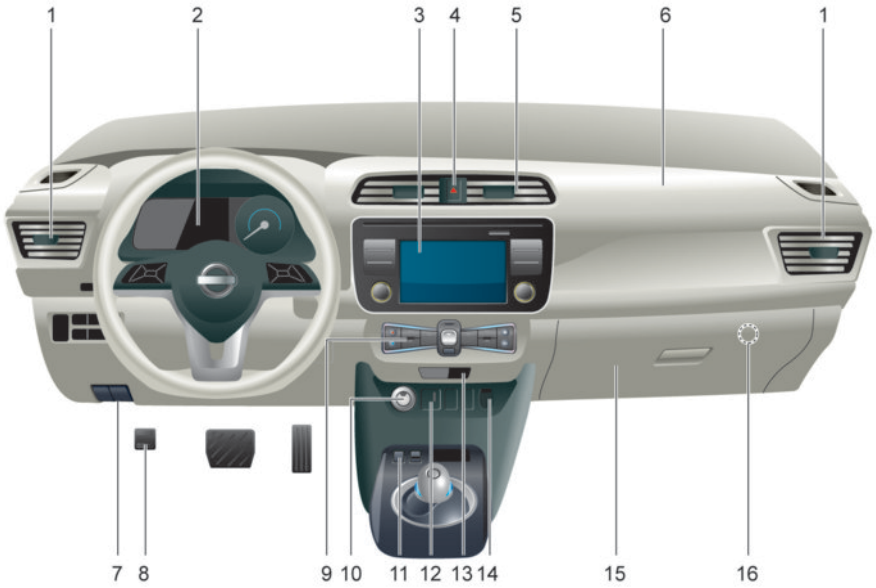

## RIGHT-HAND DRIVE (RHD) MODEL

1. Fuse box cover (P. 8-12)
2. Steering-wheel-mounted controls (left side)
   — Vehicle Information Display controls (P. 2-20)
   — Audio control*[1], or (P. 4-32)
3. Headlight, fog light and turn signal switch
   — Headlight (P. 2-46)
   — Turn signal light (P. 2-49)
   — Fog light (P. 2-50)
4. Steering-wheel-mounted controls (right side)
   — Cruise control switches* (P. 5-38)
   — Intelligent Cruise Control (ICC) switches* (P. 5-40)
   — Bluetooth® Hands-Free Phone System*[1], or (P. 4-48)*
5. Wiper and washer switch (P. 2-43)
6. Shift lever (P. 5-12)
7. Steering wheel
   — Electric power steering system (P. 5-72)
   — Horn (P. 2-51)
   — Driver's supplemental front-impact air bag (P. 1-25)
8. Tilting steering wheel lever (P. 3-17)
9. Trip computer switches (P. 2-20)
   — TRIP/RESET switch for twin trip odometer (P. 2-7)
   — Instrument brightness control switch (P. 2-46)
10. Lower instrument panel switches
    — Charge port lid opener switch (P. 3-16)
    — Immediate charge button (P. CH-19)
    — Heated steering wheel switch* (P. 2-52)
    — Approaching Vehicle Sound for Pedestrians (VSP) OFF switch (P. 2-60)
    — Intelligent Lane Intervention (ILI) switch* (P. 5-23)
11. Bonnet opening lever (P. 3-14)

*: where fitted

*[1]: See the separately provided NissanConnect Owner's Manual

## INSTRUMENT PANEL

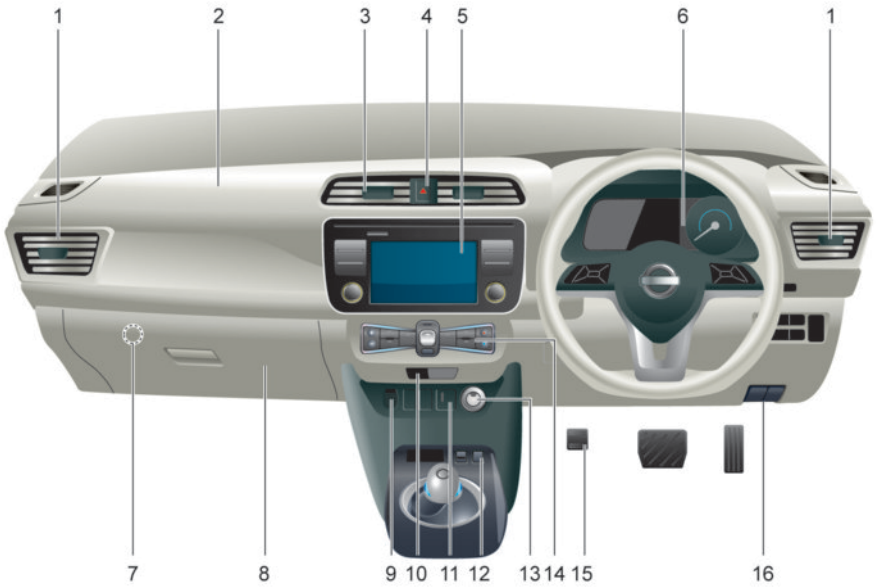



### LEFT-HAND DRIVE (LHD) MODEL

1. Side vent (P. 4-19)
2. Meters and gauges (P. 2-6)
3. Audio system*1, or (P. 4-26)*
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
   — Centre multi-function control panel*1
   — Navigation system*1
   — Vehicle information and setting buttons*1
4. Hazard warning flasher switch (P. 6-2)
5. Centre vent (P. 4-19)
6. Front passenger supplemental air bag (P. 1-25)
7. Bonnet release handle (P. 3-14)
8. Footpedal Parking brake* (P. 5-15)
9. Heater and air conditioner control (P. 4-19)
10. Power switch (P. 5-8)
11. Electric Parking brake* (P. 5-15)
12. iPod connector/USB connector*1, or (P. 4-41)*
    Auxiliary input socket*1, or (P. 4-41)*
13. Front passenger air bag status light (P. 1-0)
14. Power outlet (P. 2-53)
15. Glove box (P. 2-53)
16. Front passenger air bag switch (P. 1-0)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual



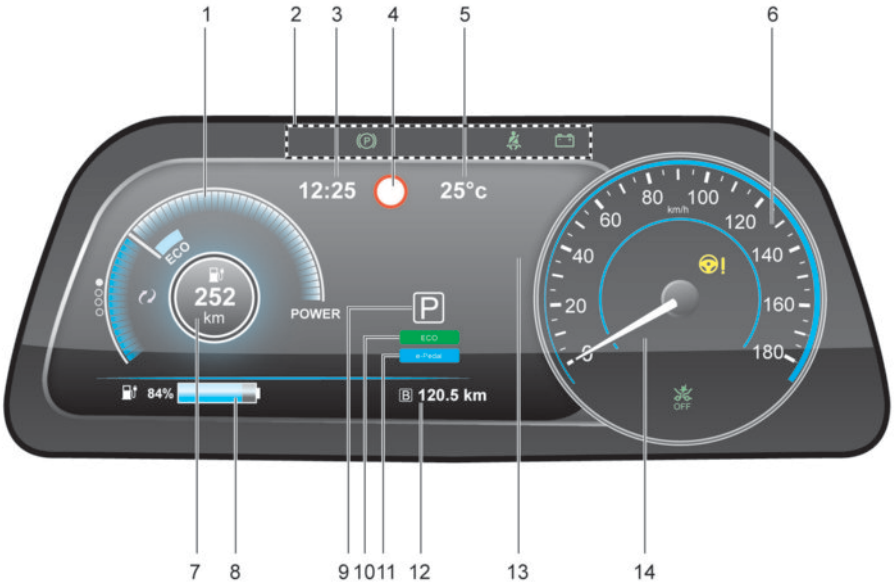

## RIGHT-HAND DRIVE (RHD) MODEL

1. Side vent (P. 4-19)
2. Front passenger supplemental air bag (P. 1-25)
3. Centre vent (P. 4-19)
4. Hazard warning flasher switch (P. 6-2)
5. Audio system*1, or (P. 4-26)*
   — Bluetooth® Hands-Free Phone System*1, or (P. 4-48)*
   — Centre multi-function control panel*1
   — Navigation system*1
   — Vehicle information and setting buttons*1
6. Meters and gauges (P. 2-6)
7. Front passenger air bag switch (P. 1-0)
8. Glove box (P. 2-53)
9. Power outlet (P. 2-53)
10. Front passenger air bag status light (P. 1-0)
11. iPod connector/USB connector*1 or (P. 4-41)*
    Auxiliary input socket*1 or (P. 4-41)*
12. Electric Parking brake* (P. 5-15)
13. Power switch (P. 5-8)
14. Heater and air conditioner control (P. 4-19)
15. Footpedal Parking brake* (P. 5-15)
16. Bonnet release handle (P. 3-14)

*: where fitted

*1: See the separately provided NissanConnect Owner's Manual

## METERS AND GAUGES




1. Power meter (P. 2-7)
2. Warning/indicator lights (P. 2-10)
   — Master warning light (P. 2-14)
   — Turn signal/Hazard indicator light (P. 2-46)
3. Clock (P. 2-9)
4. Traffic Sign Recognition * (P. 2-39)
5. Outside air temperature (P. 2-9)
6. Speedometer (P. 2-6)
7. Driving range (P. 2-8)
8. Li-ion battery available charge gauge (P. 2-8)
9. Shift position indicator (P. 5-12)
10. ECO indicator (P. 5-14)
11. E-Pedal indicator (P. 5-17)
12. Odometer/twin trip odometer (P. 2-7)
13. Vehicle Information Display
    — Trip computer (P. 2-32)
    — Indicator for timer (P. 2-32)
    — Li-ion battery temperature gauge (P. 2-32)
    — Li-ion battery capacity level gauge (P. 2-32)
14. Warning/indicator lights (P. 2-10)
    — READY to drive indicator light (P. 2-18)

*: Where fitted

### SPEEDOMETER




**Speedometer**

The speedometer indicates the vehicle speed (km/h or MPH).

## ODOMETER/TWIN TRIP ODOMETER




The odometer ① and twin trip odometer are displayed on the Vehicle Information Display when the power switch is in the **ON** or **READY** to drive position.

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

The twin trip odometer records the distance of individual trips.

### Changing the display

Pushing the **<TRIP>** switch located on the right or left side of the instrument panel changes the display as follows:

TRIP A → TRIP B → TRIP A

For information about the Vehicle Information Display, see "Vehicle Information Display" later in this section.

### Resetting the trip odometer

Pushing and holding the **<TRIP>** switch for approximately 1 second resets the currently shown trip odometer to zero.

## POWER METER




The power meter displays the traction motor power level when the accelerator pedal is depressed, as well as the level of power regeneration provided to the Li-ion battery by the regenerative brake.

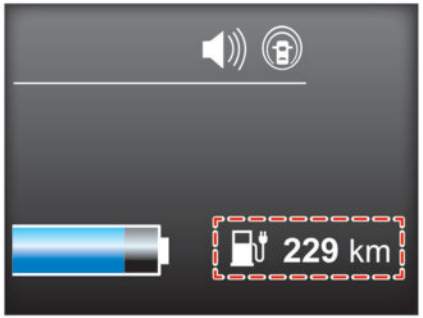
This meter displays the actual traction motor power consumption Ⓐ and the regenerative brake power provided to the Li-ion battery Ⓑ. The white illuminated part ① in the display moves right or left depending on demand.

The white illuminated part moves to the right when power is provided to the traction motor (Li-ion battery discharges).

The white illuminated part moves to the left when power is generated and provided to the Li-ion battery by the regenerative brake system (Li-ion battery charging).

The power meter also indicates if the power provided to the motor is limited or if regenerative braking is limited. When power or regenerative braking is limited, the illuminated segments on the display are narrowed ②. Regenerative braking is automatically reduced when the Li-ion battery is fully charged to prevent the Li-ion battery from becoming overcharged. Regenerative braking is also automatically reduced when the Li-ion battery temperature is high/low (indicated by the red/blue zones on the Li-ion battery temperature gauge) to prevent Li-ion battery damage. The more regenerative braking is reduced, the more illuminated segments on the display are narrowed ②. If the Li-ion battery charge is low, power provided to the traction motor is reduced. Motor output is also limited if the Li-ion battery temperature is high/low (indicated by the red/blue zones on the Li-ion battery temperature gauge). The more power provided to the traction motor is reduced, the more illuminated segments on the display are narrowed ②.

## DRIVING RANGE




The driving range (km or miles) provides an estimated distance that the vehicle can be driven before recharging is necessary. The driving range is constantly being calculated, based on the amount of available Li-ion battery charge and the actual power consumption average.

The illustrated indicator displays the driving range based on the current driving style.

**NOTE:**

- **The driving range display will flash when the low battery charge warning light illuminates. Additionally, if you continue to drive the vehicle in this state and the Li-ion battery is close to being completely discharged, "---" will be displayed. Charge the Li-ion battery as soon as possible. When the Li-ion battery is charged, the original display will be restored.**
- **After the vehicle is charged, the displayed driving range is calculated based on the actual average energy consumption of previous journeys. The displayed driving range will vary every time the vehicle is fully charged.**
- **The driving range will increase or decrease when the air conditioner or heater is turned on or off, or the ECO mode is selected, or when any other accessory is turned on or off based on driving.**
- **When the power meter is selected on the trip computer, the driving range is displayed on the trip computer.**

## LI-ION BATTERY AVAILABLE CHARGE GAUGE




① Low battery charge warning light illuminates in yellow when the available Li-ion battery charge is getting low.

② This figure shows the current state of charge (%) of the Li-ion battery.

③ The gauge indicates the **approximate** remaining Li-ion battery charge available to run the vehicle.

**Charge the Li-ion battery before the blue bar of the gauge ① disappears.**

When the low battery charge warning light illuminates in yellow, charge as soon as it is convenient, preferably before the blue bar of the gauge ① disappears. When the blue bar disappears and the low battery charge light illuminates in yellow, there is a very small reserve of Li-ion battery charge remaining.

**NOTE:**

- **The length of the blue bar of the gauge is determined by the available charge and the amount of charge the Li-ion battery is capable of storing at the current temperature.**
- **Temperature affects the amount of charge the Li-ion battery is capable of storing. The Li-ion battery is capable of storing less power when the Li-ion battery temperature is cold. The Li-ion battery is capable of storing more power when the Li-ion battery is warm. The length of the blue bar of the gauge can change based on the amount of power the Li-ion battery is capable of storing. For example, when the Li-ion battery becomes colder, a longer blue bar is shown because the available charge is a greater percentage of the Li-ion battery's capability of storing power. When the Li-ion battery becomes warmer, a shorter blue bar is shown because the remaining energy is a lower percentage of the Li-ion battery's capability of storing power.**

## ECO MODE INDICATOR

This indicator illuminates in the Vehicle Information Display when the ECO mode has been activated. The ECO mode is used to help extend the range that the vehicle can be driven by consuming less power. See ☞ "ECO mode" in the "5. Starting and driving" section for additional details.

## E-PEDAL SYSTEM INDICATOR

This indicator in the Vehicle Information Display shows the status of the e-Pedal system. When the e-Pedal system is turned off, the indicator changes to [e-Pedal OFF]. See ☞ "e-Pedal System" in the "5. Starting and driving" section for additional details.

## OUTSIDE AIR TEMPERATURE

The outside air temperature can be displayed in °C (Celsius) or °F (Fahrenheit). To change the temperature unit between °C and °F, see ☞ "Vehicle Information Display" later in this section.

The temperature displayed may differ from the (actual) outside temperature as displayed on various signs or billboards.

## CLOCK

Adjust the clock on the setting screen of the Vehicle Information Display (See, ☞ "Vehicle Information Display" later in this section).

If the 12-volt battery power supply is disconnected, the clock will not indicate the correct time after reconnecting the power supply. Adjust the time accordingly.

**NOTE:**

**For models with NissanConnect system: The clock is synchronised with the clock displayed on the centre display. See the separately provided NissanConnect Owner's Manual.**

## WARNING LIGHTS, INDICATOR LIGHTS, AND AUDIBLE REMINDERS

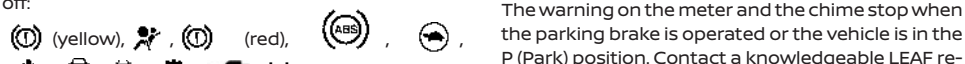
| | | | | | |
|---|---|---|---|---|---|
|  | 12-volt battery charge warning light |  | Master warning light (red/yellow) |  | Front fog light indicator* |
|  | Anti-lock Braking System (ABS) warning light |  | Seat belt warning light |  | Front passenger air bag status light |
|  | BRAKE system warning light (yellow) |  | Supplemental air bag warning light |  | High beam assist indicator light |
|  | BRAKE warning light (red) |  | Low tyre pressure warning light* |  | High beam indicator light |
|  | Electric power steering warning light |  | Speed warning light* |  | Rear fog light indicator light |
|  | Electric shift control system warning light |  | Approaching Vehicle Sound for Pedestrians (VSP) OFF indicator light |  | Security indicator light |
|  | Electronic Stability Programme (ESP) warning light |  | Power limitation indicator light |  | Small light indicator light |
|  | Electric vehicle system warning light |  | Plug in indicator light |  | Turn signal/hazard indicator lights |
|  | Intelligent Emergency Braking (IEB) system warning light* |  | **READY** to drive indicator light | | |
|  | Intelligent Emergency Braking (IEB) with pedestrian detection system warning light* |  | Electronic Stability Programme (ESP) OFF indicator light | *: (where fitted) | |

## CHECKING LIGHTS

With all doors closed, apply the parking brake, and place the power switch in the **ON** position or depress the brake pedal and push the power switch to the **READY** to drive position. The following lights will illuminate.



The following lights illuminate briefly and then turn off:




If any light does not illuminate, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## WARNING LIGHTS

### 12-volt battery charge warning light

The DC/DC converter in the Power Delivery Module (PDM) converts the 400 volt Li-ion battery voltage to charge the 12-volt battery.

This light illuminates continuously, after the bulb is checked, when the power switch is in the **ON** position, and turns off when the power switch is placed in the **READY** to drive position.

When this warning light illuminates, a chime sounds and the following warnings are also displayed:

- Master warning (red)
- Electric vehicle system warning light

The following messages also flash on and off on the Vehicle Information Display.

If the vehicle is being driven: [Stop the vehicle] and if the vehicle is stopped: [When Parked Apply Parking Brake]. When these messages flash, immediately stop the vehicle in a safe location, apply the parking brake and push the P position switch on the shift lever to place the vehicle in the P (Park) position. The warning on the meter and the chime stop when the parking brake is operated or the vehicle is in the P (Park) position. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for support.

**⚠ CAUTION**

- **The DC/DC converter system may not be functioning properly if the 12-volt battery charge warning light illuminates continuously when the power switch is in the READY to drive position. Immediately stop the vehicle in a safe location and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**
- **If the 12-volt warning light illuminates continuously when the power switch is in the READY to drive position. Do not charge the 12-volt battery while this warning light is illuminated. It may lead to a malfunction of the DC/DC converter system. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

**NOTE:**

- **If the vehicle does not go into the READY to drive position (when the power switch is pushed with the brake pedal depressed), jump-start the vehicle to place the power switch in the READY to drive position. See ☞ "Jump starting" in the "6. In case of emergency" section.**
- **Do not jump-start the vehicle and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for inspection:**
  - **If the 12-volt charge warning light turns off when the vehicle is in the READY to drive mode, the 12-volt battery may be discharged or there may be a malfunction in the 12-volt battery related system.**
  - **If the 12-volt charge warning light continues to illuminate when the vehicle is in the READY to drive mode, there may be a malfunction in the Power Delivery Module (PDM). Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for inspection**

## Anti-lock Braking System (ABS) warning light

When the power switch is in the **ON** or **READY** to drive 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 power switch is in the **READY** to drive position, or while driving, it may indicate the ABS is not functioning properly. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system however still operates normally, but without anti-lock assistance. (See "Brakes" in the "8. Maintenance and do-it-yourself" section.)

## BRAKE system warning light (yellow)

This light functions for both the regenerative brake and the electronically driven intelligent brake systems. When the power switch is placed in the **ON** position or in the **READY** to drive position, the light remains illuminated for about 2 or 3 seconds. If the light illuminates at any other time, it may indicate that the regenerative brake and/or the electronically driven intelligent brake systems are not functioning properly. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. If the BRAKE warning light (red) also illuminates, stop the vehicle immediately and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. For additional information, see "Brakes" in the "8. Maintenance and do-it-yourself" section.

### ⚠ WARNING

- **Pressing the brake pedal when the power switch is not in the ON or READY to drive position and/or when the brake fluid level is low may increase the stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the minimum or <MIN> mark on the brake fluid reservoir, do not drive until the brake system has been checked at a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**
- **The regenerative brake system may not be working properly if the brake system warning light illuminates when the READY to drive indicator light is ON. If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving could be dangerous.**

## BRAKE warning light (red)

When the power switch is placed in the **ON** position or in the **READY** to drive position, the light remains illuminated for a few seconds. If the light illuminates at any other time, it may indicate that the hydraulic brake system is not functioning properly. If the BRAKE warning light illuminates, stop the vehicle immediately and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**Low brake fluid warning light:**

When the power switch is in the **ON** position, the light warns of a low brake fluid level. If this warning light illuminates, the Electronic Stability Programme (ESP) warning light and the brake system warning light (yellow) also illuminate. If the light illuminates while the power switch is in the **READY** to drive position with the parking brake not applied, stop the vehicle and perform the following items.

1. Check the brake fluid level. If brake fluid level is low, add fluid and have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. See "Brake fluid" in the "8. Maintenance and do-it-yourself" section.
2. If the brake fluid level is correct, have the warning system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### ⚠ WARNING

- **Your brake system may not be working properly if the warning light is on. Driving could be dangerous. If you judge the brake system to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.**

- **Pressing the brake pedal with the power switch position other than in the ON or READY to drive position and/or low brake fluid level may increase the stopping distance and braking will require greater pedal effort as well as pedal travel.**
- **If the brake fluid level is below the minimum or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## Electric power steering warning light

When the power switch is in the **ON** position, the electric power steering warning light illuminates and turns off when the power switch is placed in the **READY** to drive position. This indicates the electric power steering system is operational.

If the electric power steering warning light illuminates while the **READY** to drive indicator light is ON, it may indicate the electric power steering system is not functioning properly and may need servicing. Have the electric power steering system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

When the electric power steering warning light illuminates while the **READY** to drive indicator is ON, 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 system" in the "5. Starting and driving" section.

## Electric shift control system warning light

This light illuminates when a malfunction occurs in the electric shift control system. When the master warning light illuminates, the chime sounds and the message, [When Parked Apply Parking Brake], is displayed on the Vehicle Information Display.

When the power switch is in the **OFF** position, the chime sounds continuously. Make sure the parking brake is applied. If the parking brake is applied, the master warning light illuminates and the warning message on the Vehicle Information Display turns off and the chime stops.

If the power switch can not be placed in the **OFF** position, apply the parking brake and then place it in the OFF position.

Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## Parking brake warning light

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

When the power is placed in the **ON** position, the electronic parking brake warning light illuminates. When the EV system is started and the parking brake is released, the warning light turns off.

If the parking brake is not fully released, the electronic parking brake warning light remains on. Be sure that the electronic parking brake warning light has turned off before driving.

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

## Electronic Stability Programme (ESP) warning light

The light will blink when the Electronic Stability Programme (ESP) system is operating, thus alerting the driver that the vehicle is nearing its traction limits. The road surface may be slippery.

When the ESP warning light illuminates with the ESP system turned on, this light alerts the driver to the fact that the ESP system's fail-safe mode is operating, for example, the ESP system may not be functioning properly. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. If a malfunction occurs in the system, the ESP system function will be cancelled but the vehicle is still driveable. For additional information, see "Electronic stability programme (ESP) system" in the "5. Starting and driving" section.

### Electric vehicle system warning light

This light illuminates if there is a malfunction in the following systems. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

- Traction motor and inverter system
- Charge port or on board charger
- Li-ion battery system
- Cooling system
- Shift control system
- Emergency shut off system is activated. See "Emergency shut-off system" in the "EV. Electric vehicle overview" section.

### Intelligent Emergency Braking (IEB) system warning light (where fitted)

This light comes on when the power switch is placed in the ON position. It turns off after the EV system is started. This light illuminates when the IEB system is set to OFF on the meter display. If the light illuminates when the IEB system is on, it may indicate that the system is unavailable. For additional information, See "Intelligent Emergency Braking (IEB) with Pedestrian Detection system" in the "5. Starting and driving" section.

Disabling the ESP system with the Vehicle Information Display causes the IEB with pedestrian detection system to become unavailable. This is not a malfunction.

### Intelligent Emergency Braking (IEB) with Pedestrian Detection system warning light (where fitted)

If the light illuminates when the IEB with pedestrian detection system is ON, it may indicate that the system is unavailable. See, "Intelligent Emergency Braking (IEB) with Pedestrian Detection system" in the "5. Starting and driving" section for more details.

Disabling the ESP system with the Vehicle Information Display causes the IEB with pedestrian detection system to become unavailable. This is not a malfunction.

### Master warning light (red/yellow)

There are two types of master warning light: yellow and red. These lights illuminate if various vehicle information warnings appear in the Vehicle Information Display.

**Yellow master warning light:**

This light illuminates when a message is displayed on the Vehicle Information Display.

**Red master warning light:**

This light illuminates when a warning is displayed on the Vehicle Information Display.

### Seat belt warning light

The light and chime remind you to fasten your seat belts.

When the power switch is in the **ON** position, the seat belt warning light illuminates. The light will continue to illuminate until the front seat belts are fastened.

When the vehicle speed exceeds 15 km/h (10 MPH), the light will blink and the chime will sound unless the seat belts are securely fastened. The chime will continue to sound for about 90 seconds or until the seat belts are fastened.

For precautions on seat belt usage, see "Seat belts" in the "1. Safety — seats, seat belts and supplemental restraint system" section.

### Speed warning light (where fitted)

The speed warning indicator light warns the driver, by flashing, when the vehicle speed exceeds 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

After placing the power switch in the **ON** position, the supplemental air bag warning light will illuminate. The supplemental air bag warning light will turn off after about 7 seconds if the supplemental front air bag and supplemental side air bag, curtain side-impact air bag systems and/or pre-tensioner seat belts are operational. If any of the following conditions occur, the front air bag, side air bag, curtain air bag and pre-tensioner systems need servic-

ing and your vehicle must be taken to your nearest knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer:

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

Unless checked and repaired, the Supplemental Restraint Systems and/or the pre-tensioners may not function properly. For additional information, see ☞ "Supplemental Restraint System (SRS)" in the "1. Safety — seats, seat belts and supplemental restraint system" section.

**⚠ WARNING**

**If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pre-tensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible.**

### TPMS indicator light (where fitted)

When the power switch is in the **ON** position, the TPMS indicator light illuminates and then turns off. This indicates that the low tyre pressure warning system is operational.

This light illuminates or blinks if there is low tyre pressure or, in case of a tyre pressure warning system malfunction it will flash for 1 minute and then stay illuminated.

The Tyre Pressure Monitoring System (TPMS) monitors the tyre pressure of all tyres except the spare (where fitted).

**⚠ WARNING**

- **Visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible if the TPMS system is malfunctioning.**
- **If the TPMS indicator light illuminates while driving:**
  - **avoid sudden steering manoeuvres**
  - **avoid abrupt braking**
  - **reduce vehicle speed**
  - **pull off the road to a safe location**
  - **stop the vehicle as soon as possible**
- **Driving with under-inflated tyres may permanently damage the tyres and increase the likelihood of tyre failure. Serious vehicle damage could occur which may lead to an accident and could result in serious personal injury.**
- **Check the tyre pressure for all four tyres. Adjust the tyre pressure to the recommended COLD tyre pressure shown on the tyre placard to turn the TPMS indicator light OFF. In case of a flat tyre, replace it with a spare tyre (where fitted) as soon as possible. (See ☞ "Flat tyre" in the "6. In case of emergency" section for changing a flat tyre.)**
- **When a spare tyre is mounted or a wheel is replaced, the TPMS will not function and the TPMS indicator light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible to check the TPMS system.**
- **Replacing tyres with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **The Genuine NISSAN Emergency Tyre Repair Sealant or equivalent can be used for temporarily repairing a tyre. Do not inject any other tyre liquid or aerosol tyre sealant into the tyres, as this may cause a malfunction of the tyre pressure sensors. Visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible after using tyre repair sealant.**
- **NISSAN recommends using only Genuine NISSAN Emergency Tyre Sealant provided with your vehicle. Other tyre sealants may damage the valve stem seal which can cause the tyre to lose air pressure. Visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible after using tyre repair sealant (for models equipped with the emergency tyre puncture repair kit).**

## ⚠ CAUTION

- **If the vehicle is driven with a flat tyre, this may damage the TPMS sensor for that tyre.**
- **The TPMS may not function properly when the wheels are equipped with tyre chains or the wheels are buried in snow.**
- **Do not place metalised film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tyre 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 TPMS indicator light to illuminate. Some examples are:**
  - **Facilities or electric devices using similar radio frequencies are near the vehicle.**
  - **If a transmitter set to similar frequencies is being used in or near the vehicle.**
  - **If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.**
- **When inflating the tyres and checking the tyre pressure, never bend the valves.**
- **Use Genuine NISSAN valve caps that comply with the factory-fitted valve cap specifications.**
- **Do not use metal valve caps.**
- **Fit the valve caps properly. Without the valve caps the valve and tyre pressure monitor sensors could be damaged.**
- **Do not damage the valves and sensors when storing the wheels or fitting different tyres.**
- **Replace the TPMS sensor valve stem (including valve core and cap) when the tyres are replaced due to wear or age. The TPMS sensors can be used again.**

**Low tyre pressure warning:**

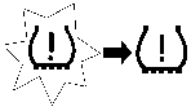
If the vehicle is being driven with low tyre pressure, the warning light will illuminate.

When the TPMS indicator light illuminates, you should stop and adjust the tyre pressure to the recommended COLD tyre pressure shown on the tyre placard. The TPMS indicator light does not automatically turn off when the tyre pressure is adjusted. After TPMS reset operation or when the correct tyre pressure is detected, the vehicle must be driven at speeds above 25 km/h (16 MPH) to reset the TPMS and turn off the TPMS indicator light. Use a tyre pressure gauge to check the tyre pressure.

For additional information, see ☞ "Tyre Pressure Monitoring System (TPMS)" in the "5. Starting and driving" section.

**When wheels do not have genuine NISSAN tyre pressure sensors or if the TPMS malfunctions:**

If the TPMS is not functioning properly, the TPMS indicator light will flash for approximately 1 minute when the power switch is placed in the **ON** position. The light will remain on after the 1 minute. Make sure the correct genuine NISSAN tyre pressure sensors or equivalent are fitted to the wheels. When the light still illuminates, have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

| TPMS indicator light(s) | Possible cause | Recommended action |
|---|---|---|
|  | Low tyre pressure<br>Note: Usually, the pressure of the tyre decreases naturally. | 1) Inflate tyre to the correct pressure<br>2) Reset TPMS<br>See ☞ "TPMS reset" in the "5. Starting and driving" section |
|  | Genuine NISSAN TPMS sensor is not detected at one or more wheels. | Check the TPMS sensors. |
| | TPMS radio communication interference between TPMS wheel sensor and TPMS receiver due to external sources. | Drive away from the area of interference. |
| | TPMS parts malfunction. | If the problem persists contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. |

For additional information, see ☞ "Precautions when starting and driving" in the "5. Starting and driving" section.

## INDICATOR LIGHTS

### Power limitation indicator light

When the power limitation indicator light is illuminated, the power provided to the traction motor is reduced. Therefore the vehicle is not as responsive when the accelerator is depressed when the power limitation light is illuminated.

When this light comes on, a warning appears on the navigation display and the Vehicle Information Display. Follow the instructions provided on the navigation display (models with navigation system).

This light illuminates in the following conditions:

- When the Li-ion battery available charge is extremely low.
- When the Li-ion battery temperature is very low.
- When the temperature of the electric vehicle system is high (motor, inverter, coolant system, Li-ion battery etc.).
- When the electric vehicle system has a malfunction.

If the Low battery charge warning light is illuminated, charge the Li-ion battery as soon as possible.

If this indicator illuminates because the Li-ion battery is cold due to low outside temperatures, move the vehicle to a warmer location. The Li-ion battery temperature may rise when the Li-ion battery is being charged.

If the light illuminates when the electric vehicle system becomes hot due to continuous hill climbing either continue driving at a slower speed or stop the vehicle in a safe location. If this indicator does not turn off, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

If the indicator illuminates in a situation other than those described above, or if it does not turn off, there may be a system malfunction. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**⚠ WARNING**

- **Power limitation mode results in reduced power and vehicle speed. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be extremely careful when driving. If the vehicle cannot maintain a safe driving speed, pull to the side of the road in a safe area. Charge the Li-ion battery if the charge is low or allow the Li-ion battery to cool.**
- **You can reduce charging time and keep the Li-ion battery temperature lower if you:**
  - **Charge more frequently in smaller amounts,**
  - **Keep the battery at a higher level of charge.**

### Approaching Vehicle Sound for Pedestrians (VSP) OFF indicator light

The light illuminates when the Approaching Vehicle Sound for Pedestrians (VSP) system is turned off with the VSP OFF switch. If the VSP OFF indicator illuminates while the VSP system is ON, it will may indicate the VSP is not functioning properly. Have the VSP system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. See, "Approaching Vehicle Sound for Pedestrians (VSP) system" in the "EV. Electric vehicle overview" section.

### Plug in indicator light

This light illuminates when the charge connector is connected to the vehicle and blinks during charging.

**NOTE:**
**If the charge connector is connected to the vehicle, the power switch can not be placed in the READY to drive position.**

### READY to drive indicator light

The **READY** to drive indicator light illuminates when the electric vehicle system is powered and the vehicle is ready to be driven.

The **READY** to drive indicator will turn off in the following conditions.

- Certain electric vehicle system malfunctions.
- The **READY** to drive indicator light turns off immediately before the Li-ion battery is completely discharged If the Li-ion battery becomes completely discharged, the vehicle must be charged in order to be driven. See "" in the "CH. " section.

### Door lock indicator light (where fitted)

The door lock indicator light located on the instrument panel illuminates when all the doors are locked while the power is in the **ON** position.

- When the doors are locked with the power door lock switch, the door lock indicator light will illuminate for 30 minutes.
- When the doors are locked by pushing the LOCK button on the Intelligent Key or any request switch (where fitted), the door lock indicator light will illuminate for 1 minute.
- The door lock indicator light turns off when any door is unlocked.

For locking or unlocking doors, see "Doors" in the "3. Pre-driving checks and adjustments" section.

### Electronic Stability Programme (ESP) off indicator light

This light illuminates when the Electronic Stability Programme (ESP) is switched off in the Vehicle Information Display. This indicates that the ESP system is not operating.

See "Vehicle Information Display" later in this section.

### Front fog light indicator light (where fitted)

The front fog light indicator light illuminates when the front fog lights are on. See "Fog light switch" in the "2. Instruments and controls" section.

### Front passenger air bag status light

The front passenger air bag status light located on the instrument panel will illuminate when the front passenger air bag is turned off with the front passenger air bag switch. When the front passenger air bag is turned on, the front passenger air bag status light will turn off.

For more details, see "Supplemental front-impact air bag system" in the "1. Safety — seats, seat belts and supplemental restraint system" section.

### Dipped beam indicator light

This light comes on when the switch is turned to the position: The headlights will come on and front side, tail, number plate and instrument lights remain on.

### High beam assist indicator light

The indicator light illuminates when the headlights come on while the headlight switch is in the <AUTO> position with the high beam selected. This indicates that the high beam assist system is operational. (See "Headlight and turn signal switch" in the "2. Instruments and controls" section.)

### High beam indicator light

This light illuminates when the headlight high beam is on and goes out when low beam is selected.

### Rear fog light indicator light

The rear fog light indicator light illuminates when the rear fog light is on. (See "Fog light switch" later in this section.)

### Security indicator light

The security indicator light blinks when the power switch is in the **LOCK**, **OFF** or **ACC** position. This function indicates the NATS (NISSAN Anti-Theft System)* equipped on the vehicle is operational. (* immobilizer)

If NATS is malfunctioning, this light will remain on while the power switch is in the **ON** position (see "Security system" later in this sectionfor additional information).

### Small light indicator light

The small light indicator light illuminates when the front park lights, instrument panel lights, tail and number plate lights are on. The indicator light turns off when the is turned off.

### Turn signal/hazard indicator lights

This light flashes when the turn signal switch or hazard switch is operated.

## AUDIBLE REMINDERS

### Key reminder chime

A chime will sound if the driver's side door is opened while the power switch is placed in the **ON** or **ACC** position.

Make sure that the power switch is in the **OFF** position, and take the Intelligent Key with you when leaving the vehicle.

### Light reminder chime

The light reminder chime will sound when the driver side door is opened with the light switch in the or position, and the power switch in the **ACC**, **OFF** or **LOCK** position.

Turn the light switch off when you leave the vehicle.

The chime will also sound for 2 seconds when the power is placed in the **ACC**, **OFF** or **LOCK** position while the fog lights are on with the headlight switch in the <AUTO> position.

Be sure to turn the headlight switch to the OFF or <AUTO> position and the fog light switch to the OFF position when you leave the vehicle.

### Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard

even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the warning sound is heard.

### 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

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 90 seconds or until the front seat belts are fastened.

### 12-volt battery charge warning chime

If the 12-volt battery charge warning light illuminates, the chime will sound and a warning message is displayed on the Vehicle Information Display on the lower display.

When the chime sounds, stop the vehicle in a safe location, push the P position switch on the shift lever and apply the parking brake. The 12-volt battery charge warning light, on the lower display, turns off and the chime will stop when the parking brake is applied or the vehicle is placed in the P (Park) position. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for support. For details on the meter warnings, see ☞ " 12-volt battery charge warning light" earlier in this section.

### Electric shift control system reminder chime

If an improper shift operation is performed, for safety reasons a chime will sound and at the same time, depending on the conditions, the operation will be cancelled or the shift position will switch to the N (Neutral) position. For more details, see ☞ "Driving the vehicle" in the "5. Starting and driving" section.

### Power switch reminder chime (where fitted)

The power switch reminder chime will sound when the driver's door is opened while the power switch is in the **ON** or **READY** position.

Push the power switch to the **OFF** position.

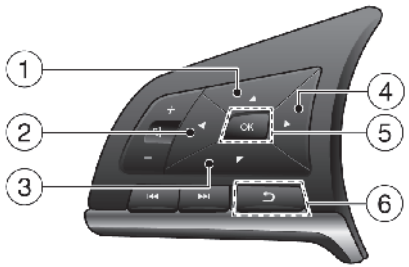
## VEHICLE INFORMATION DISPLAY




The Vehicle Information Display ① is located next to the speedometer, and it displays such items as:

- Vehicle settings
- Trip computer information
- Drive system warnings and settings
- Cruise control system information
- NISSAN Intelligent Key operation information
- Indicators and warnings
- Tyre Pressure information

## OPERATION




1 ▲ button

2 ◀ button

3 ▼ button

4 ▶ button

5 <OK> button

6 ⮌ (Back) button

**Arrow buttons:**

Press the ◀ or ▶ button on the steering wheel to change between the available trip computer screens.
(For more information, see ☞ "Trip computer" later in this section.)

**▲ and ▼ buttons:**

Press ▲ to scroll up or ▼ to scroll down through the items in the Vehicle Information Display.

**<OK> button:**

Press the <OK> button on the steering wheel to select a menu function, confirm a selection, or toggle a setting.

**⮌ button:**

Press the ⮌ (BACK) button to return to the previous display screen or menu level, or to cancel the selection if it is not completed.

## SETTINGS

Press the ◀ or ▶ button on the steering wheel to select the [Settings] screen.

The setting mode allows access to the following sub-menus in the Vehicle Information Display:

- [ESP Setting]
- [Driver Assistance]
- [Customize Display]
- [Vehicle Settings]
- [EV Settings]
- [TPMS Settings]
- [Maintenance]
- [Clock]
- [Unit/Language]
- [Factory Reset]

### Status indicators

Whenever a system or setting can be turned **ON** or **OFF**, or a selection from multiple settings can be made, a check mark will indicate the current status:

- A yellow mark next to white text indicates the system or setting is activated.
- A black mark next to black text indicates the system or setting is deactivated.

### [ESP Setting]

The following menu option is available:

- [ OFF System]
  This allows you to turn the ESP system **ON** or **OFF**. By default the ESP system will be turned **ON**. If the ESP system is turned off the ESP OFF indicator light ( ) will come on.

  **NOTE:**
  **The vehicle should be driven with the Vehicle Dynamic Control (ESP) system ON for most driving conditions.**
  (For more information on the ESP system, see ☞ "Electronic stability programme (ESP) system" in the "5. Starting and driving" section.)

## [Driver Assistance]

Use the ▲ or ▼ switches and the <OK> button to change the status, warnings or turn on or off any of the systems/warnings displayed in the [Driver Assistance] menu. The following menu options are available:

**[Lane] (Lane Departure Warning system):**

This provides access to a sub-menu with the following options:

- activate or deactivate the [Lane Departure Warning] system.
- activate or deactivate the [Lane Departure Prevention] system.

(For more information, see ☞ "Lane Departure Warning (LDW) system (where fitted)" in the "5. Starting and driving" section or ☞ "Intelligent Lane Intervention system (where fitted)" in the "5. Starting and driving" section.)

**[Blind Spot] (Blind Spot Warning system):**

This provides access to a sub-menu with the following options:

- Activate or deactivate the [Blind Spot Warning] system.
- Select a [Side Indicator Brightness]. This controls the brightness for the indicator light located in the outside mirrors used by the Blind Spot Warning system. The following values are available:
  - [Bright]
  - [Standard]
  - [Dark]

(For more information, see ☞ "Blind Spot Warning (BSW) system (where fitted)" in the "5. Starting and driving" section.)

**[Emergency Brake] (Intelligent Emergency Braking system and Intelligent Forward Collision Warning):**

This provides access to a sub-menu where you can activate or deactivate the Intelligent Emergency Braking system.

(For more information, see ☞ "Intelligent Emergency Braking (IEB) with Pedestrian Detection system" in the "5. Starting and driving" section.)

**[Traffic Sign Recognition] (where fitted):**

This allows you to turn Traffic Sign Recognition] **ON** or **OFF**.

(For more information, see ☞ "Traffic Sign Recognition (where fitted)" later in this section.)

**[Parking Aids]:**

This provides access to a sub-menu with the following options:

(For more information, see ☞ "Intelligent Around View Monitor" in the "4. Display screen, heater and air conditioner (climate control system)" section.)

- The [Sonar] menu.
  - [Parking Sonar]
    Activate or deactivate the parking sensors.
    The available settings are:
    [OFF] (No parking aids)
    [Front Only] (Only the parking sensors on the front of the vehicle will be activated)
    [ON] (All parking sensors will be activated)
  - Activate or deactivate the [Display] of the parking aids system.
  - Select the [Volume] of the parking aids tone.
  - Select the [Range] of the parking aids sensors.
- Activate or deactivate the [Moving Object] system.
  (For more information, see ☞ "Moving Object Detection (where fitted)" in the "4. Display screen, heater and air conditioner (climate control system)" section.)
- Activate or deactivate the [Rear Cross Traffic Alert] system.
  (For more information, see ☞ "Rear Cross Traffic Alert (RCTA) system (where fitted)" in the "5. Starting and driving" section.)

**[Driver Attention Alert] (where fitted):**

Activate or deactivate the Intelligent Driver Alertness system.

(For more information, see ☞ "Intelligent Driver Alertness (where fitted)" in the "5. Starting and driving" section.)

**[Timer Alert]:**

This provides access to a sub-menu with the following options:

- [Timer]
  Allows to set a timer anywhere from 30 minutes to 6 hours in 30 minute intervals.
- [Reset]
  Reset the previously set timer.

**[Low Temperature Alert]:**

Activate or deactivate the alert given for low outside temperatures.

**[Chassis Control]:**

Activate or deactivate the Active Trace Control system.

(For more information, see ☞ "Chassis control" in the "5. Starting and driving" section.)

**[e-Pedal]:**

Activate or deactivate the [Mode Memory] of the e-Pedal system.

If [Mode Memory] is activated the status of the e-Pedal system will be maintained between trips.

(For more information, see ☞ "e-Pedal System" in the "5. Starting and driving" section.)

## [Customize Display]

Use the ▲ or ▼ switches and the <OK> button to change the status, warnings or turn on or off any of the systems/warnings displayed in the [Customize Display] menu. The following menu options are available:

**[Main Menu Selection]:**

The items that display when the power is placed in the **ON** position can be enabled/disabled. To change the items that are displayed, use the ▲ or ▼ buttons to scroll and the <OK> button to select a menu item: The following items (where fitted) are available in the [Main Menu Selection] menu:

- [Safety Shield]
  Shows the status for all Safety Shield systems.
- [Status]
  Shows the next navigation prompt and audio information.
- [Tyre Pressures]
  Shows tyre pressure information.
- [Drive Computer 1]
  Shows first set of trip computer information.
- [Drive Computer 2]
  Shows second set of trip computer information.
- [Chassis Control]
  Shows the status for all chassis control systems.
- [Traffic information]
  Shows Traffic sign recognition information.

**[ECO Info Settings]:**

This provides access to a sub-menu with the following options:

- Activate or deactivate the [ECO Drive Report].
  (For more information, see ☞ "ECO mode" in the "5. Starting and driving" section.)
- [View History]
  You can view the ECO drive report history. This will show the current and best ECO drive report.

**[Navigation Settings]:**

Activate or deactivate the [Alert(s)] from the navigation system.

**[Welcome Effect]:**

You can choose whether or not to display the welcome screen when the power is placed in the **ON** position. You can also choose the following items to define how the welcome screen looks:

- [Gauges]
- [Animation]

## [Vehicle Settings]

Use the ▲ or ▼ switches and the <OK> button to change the status, warnings or turn on or off any of the systems/warnings displayed in the [Vehicle Settings] menu. The following menu options are available:

**[Lighting]:**

The [Lighting] option leads to a sub-menu that has the following options:

- [Auto Room Lamp]
  The internal light timer can be set to be **ON** or **OFF**.
  (For more information, see ☞ "Interior lights " later in this section.)
- [Light Sensitivity]:
  The sensitivity of the automatic lighting can be adjusted. The following options are available:
  - [Earliest]
  - [Earlier]
  - [Standard]
  - [Later]

(For more information, see ☞ "Headlight and turn signal switch" later in this section.)

**[Locking]:**

There are two options (where fitted) in the [Locking] sub-menu:

- [Ext. Door Switch]
  When this item is turned on, the request switch on the door is activated.
- [Selective Unlock]
  When this item is turned on, and the door handle request switch on the driver's or front passenger's side door is pushed, only the corresponding door is unlocked. All the doors can be unlocked if the door handle request switch is pushed again within 1 minute. When this item is turned to off, all the doors will be unlocked when the door handle request switch is pushed once.

**[Auto-fold]:**

When this item is turned **ON**, The outside rear-view mirrors automatically fold when the vehicle doors are locked, and unfold when the vehicles doors have been unlocked and the power switch is placed in the **ON** or **READY** to drive position.

(For more information, see ☞ "Mirrors" in the "3. Pre-driving checks and adjustments" section.)

## [EV Settings]

Use the ▲ or ▼ switches and the <OK> button to change the status, warnings or turn on or off any of the systems/warnings displayed in the [EV Settings] menu. The following menu options, each leading to a further sub-menu, are available:

**[Charge Timer1]:**

The following menu options are available:

- [Timer]
  When this item is turned on, the first charge timer is activated.
- [Start Time]
  When this item is selected, the time at which the charge timer activates can be set.
- [End Time]
  When this item is selected, the time at which the charge timer finishes can be set.
- [Full charge has priority]
  If this item is turned on, the charge start timer will be advanced in case the fully charged condition of the Li-ion battery cannot be achieved during the time from the start time to end time. If the fully charged battery condition is not achieved, the charge continues until the Li-ion battery is fully charged even if the [End Time] has been reached.
- [Days]
  When this item is selected, the days at which the charge timer activates can be set from a further sub-menu.
- [Chg. Timer Only at HOME] (where fitted)
  When this item is selected, the start time is displayed only when the power switch is placed in the **OFF** position at home. If the power switch is placed in the **OFF** position other than at home, the immediate charge mode is selected and [Charge Now] will appear as the start time.

(For more information, see ☞ "Charging methods" in the "CH. Charging" section.)

**[Charge Timer2]:**

The following menu options are available:

- [Timer]
  When this item is turned on, the second charge timer is activated.
- [Start Time]
  When this item is selected, the time at which the charge timer activates can be set.
- [End Time]
  When this item is selected, the time at which the charge timer finishes can be set.
- [Full charge has priority]
  If this item is turned on, the charge start timer will be advanced in case the fully charged condition of the Li-ion battery cannot be achieved during the time from the start time to end time. If the fully charged battery condition is not achieved, the charge continues until the Li-ion battery is fully charged even if the [End Time] has been reached.

- [Days]
  When this item is selected, the days at which the charge timer activates can be set from a further sub-menu.

(For more information, see ☞ "Charging methods" in the "CH. Charging" section.)

**[Charge Time Screen]:**

The displayed charging time displayed on the Estimated charge time screen is calculated based on the electrical power (supplied to the charger) selected from the following:

- [6.6kW (AC 200–240V)]
- [3.6kW (AC 200–240V)]
- [50kW (Quick Charge)]

(For more information, see ☞ "Trip computer" later in this section.)

**[Climate Ctrl. Timer1]:**

The following menu options are available:

- [Timer]
  When this item is turned on, the first climate control timer is activated.
- [Departure Time]
  When this item is selected, the time at which the climate control timer finishes can be set.
- [Climate Temperature]
  When this item is selected, the temperature to which the cabin will be heated/cooled can be set.
- [Battery Operation OK]
  If this item is turned on, the climate control timer will be activated even if only battery power is available.
- [Days]
  When this item is selected, the days at which the charge timer activates can be set from a further sub-menu.

(For more information, see ☞ "Climate Control Timer" in the "CH. Display screen, heater and air conditioner (climate control system)" section.)

**[Climate Ctrl. Timer2]:**

The following menu options are available:

- [Timer]
  When this item is turned on, the second climate control timer is activated.
- [Departure Time]
  When this item is selected, the time at which the climate control timer finishes can be set.
- [Climate Temperature]
  When this item is selected, the temperature to which the cabin will be heated/cooled can be set.
- [Battery Operation OK]
  If this item is turned on, the climate control timer will be activated even if only battery power is available.
- [Days]
  When this item is selected, the days at which the charge timer activates can be set from a further sub-menu.

(For more information, see ☞ "Climate Control Timer" in the "CH. Display screen, heater and air conditioner (climate control system)" section.)

## [TPMS Settings]

Use the ▲ or ▼ switches and the <OK> button to change the status, warnings or turn on or off any of the systems/warnings displayed in the [Settings] menu. The following menu options are available:

**[Tyre Pressure Unit]:**

Select the unit used to show the tyre pressure information. The following units are available:

- kPa
- bar
- psi
- $Kgf/cm^2$

**Pressure units conversion table**

| kPa | psi | bar | kgf/cm² |
|---|---|---|---|
| 200 | 29 | 2.0 | 2.0 |
| 210 | 30 | 2.1 | 2.1 |
| 220 | 32 | 2.2 | 2.2 |
| 230 | 33 | 2.3 | 2.3 |
| 240 | 35 | 2.4 | 2.4 |
| 250 | 36 | 2.5 | 2.5 |
| 250 | 36 | 2.5 | 2.5 |
| 260 | 38 | 2.6 | 2.6 |
| 270 | 39 | 2.7 | 2.7 |
| 280 | 41 | 2.8 | 2.8 |
| 290 | 42 | 2.9 | 2.9 |
| 300 | 44 | 3.0 | 3.0 |
| 310 | 45 | 3.1 | 3.1 |
| 320 | 46 | 3.2 | 3.2 |
| 330 | 48 | 3.3 | 3.3 |
| 340 | 49 | 3.4 | 3.4 |

**[TPMS Reset]:**

When this item is selected the TPMS system is reset.

(For more information, see ☞ "Tyre Pressure Monitoring System (TPMS)" in the "5. Starting and driving" section.)

## [Maintenance]

The maintenance mode allows you to set alerts for the reminding of maintenance intervals.

**[Tyre]:**

This indicator appears when the customer set distance comes for replacing tyres. You can set or reset the distance for replacing tyres.

**⚠ WARNING**

**The tyre replacement indicator is not a substitute for regular tyre checks, including tyre pressure checks. See ☞ "Precautions when starting and driving" in the "5. Starting and driving" section. Many factors including tyre inflation, alignment, driving habits and road conditions affect tyre wear and when tyres should be replaced. Setting the tyre replacement indicator for a certain driving distance does not mean your tyres will last that long. Use the tyre replacement indicator as a guide only and always perform regular tyre checks. Failure to perform regular tyre checks, including tyre pressure checks could result in tyre 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 customer set distance comes for checking or replacing maintenance items other than the tyres. Other maintenance items can include such things as wiper blades or tyre rotation. You can set or reset the distance for checking or replacing the items.

## [Clock]

**For models without NissanConnect system:**

**Adjusting clock:**

The clock settings can be changed using the ▲ or ▼ switches and the <OK> button.

**12H/24H mode:**

The time setting can be selected from 12 hour and 24 hour formats.

**For models with NissanConnect system:**

**Automatic Time:**

The clock settings can be changed using the ▲ or ▼ switches and the <OK> button.

**Clock format:**

The display setting can be selected from a 12 hour or 24 hour format.

**Daylight Saving Time:**

The daylight saving time mode can be turned ON or OFF.

**Time Zone:**

This allows you to set a time zone.

**Set Clock Manually:**

Using this sub-menu the clock can be adjusted manually.

**NOTE:**
**The clock settings can also be changed on the centre display. See the separately provided NissanConnect Owner's Manual.**

## [Unit/Language]

**[Distance/Energy]:**

The unit for the distance and power consumption that displays in the Vehicle Information Display can be changed to:

- km, kWh/100km
- km, km/kWh
- miles, miles/kWh

**[Tyre Pressures]:**

The unit for tyre pressure that displays in the Vehicle Information Display can be changed to:

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

**[Temperature]:**

The temperature that displays in the Vehicle Information Display can be changed from:

- °C (Celsius)
- °F (Fahrenheit)

Use the <OK> button to toggle choices.

**[Language]:**

The language of the Vehicle Information Display can be changed to:

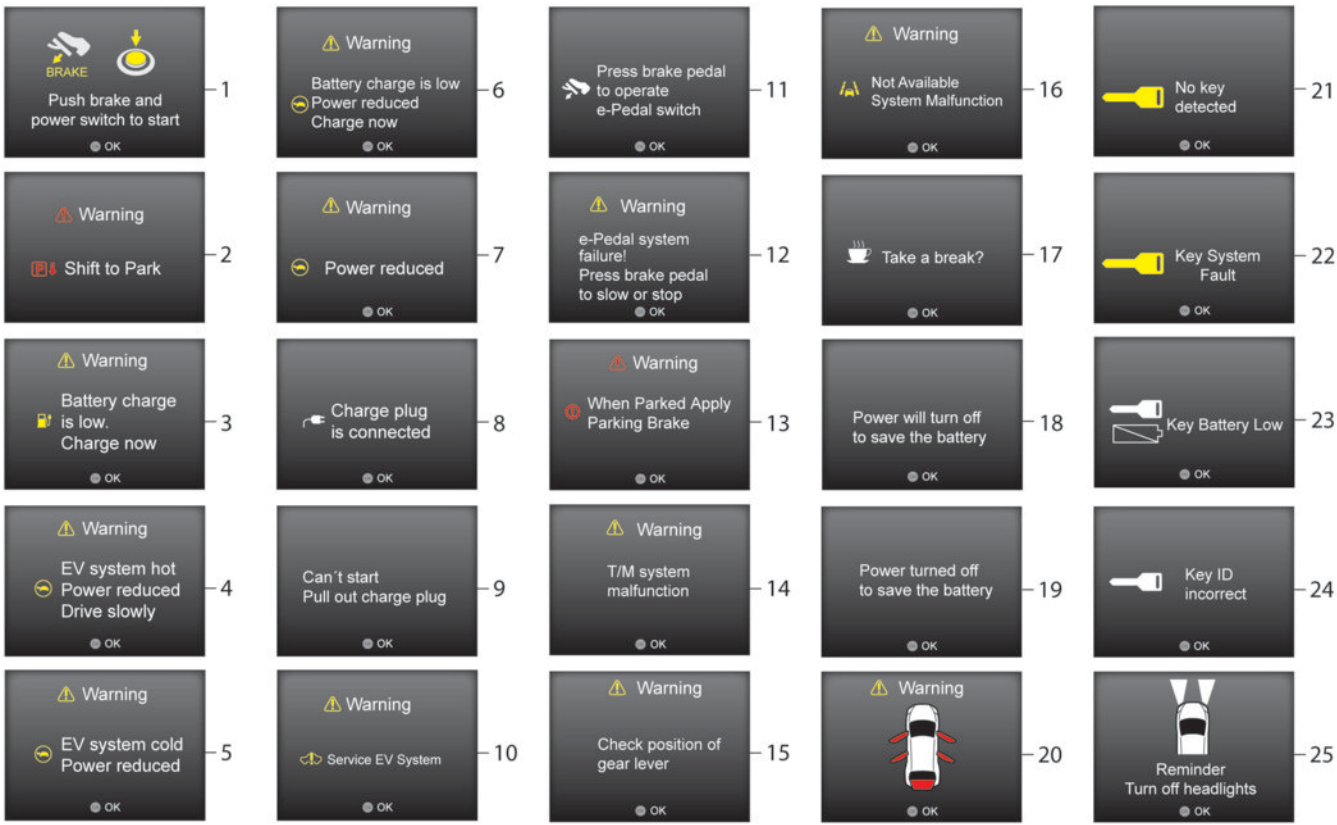
- English
- French
- German
- Italian
- Portuguese
- Dutch
- Spanish

## [Factory Reset]

The settings in the Vehicle Information Display can be reset back to the factory default. To reset the Vehicle Information Display:

1. Use the ◀ or ▶ buttons to select [Settings], and press <OK>.
2. Select [Factory Reset] using the ▲ or ▼ buttons and press the <OK> button.
3. Select [Yes] to return all settings back to default by pressing the <OK> button.

To cancel the reset operation select [Cancel] or press the ⮌ (BACK) button located on the left side of the steering wheel.


BRAKE
Push brake and power switch to start
OK
1
Warning
Shift to Park
2
Warning
Battery charge is low.
Charge now
3
Warning
EV system hot
Power reduced
Drive slowly
4
Warning
EV system cold
Power reduced
5
Warning
Battery charge is low
Power reduced
Charge now
6
Warning
Power reduced
7
Charge plug is connected
8
Can´t start
Pull out charge plug
9
Warning
Service EV System
10
Press brake pedal to operate e-Pedal switch
11
Warning
e-Pedal system failure!
Press brake pedal to slow or stop
12
Warning
When Parked Apply Parking Brake
13
Warning
T/M system malfunction
14
Warning
Check position of gear lever
15
Warning
Not Available
System Malfunction
16
Take a break?
17
Power will turn off to save the battery
18
Power turned off to save the battery
19
Warning
20
No key detected
21
Key System Fault
22
Key Battery Low
23
Key ID incorrect
24
Reminder
Turn off headlights
25

## INDICATORS FOR OPERATION

### 1. READY to drive position operation indicator

This indicator appears while the vehicle is in the P (Park) position. This indicator means that the EV system will start when the power switch is pressed with the brake pedal depressed.

### 2. SHIFT to Park warning

This warning appears alternately with the door/boot open warning when the driver's door is opened with the shift position in any position other than the P (Park) position. If this warning appears, shift to the P (Park) position.

### 3. Li-ion battery low charge warning

This indicator appears when the Li-ion battery charge is getting low. The low battery charge warning light and the master warning light (yellow) also illuminate. Charge the Li-ion battery as soon as possible.

### 4. Power limitation (hot) warning

This warning appears when the temperature of the traction motor, Li-ion battery, etc. becomes extremely high due to driving in high outside air temperatures, continuous driving at high speed or on uphill climbs, etc. when the power limitation indicator illuminates. If this warning appears, vehicle speed will not increase due to the power limitation even if the accelerator pedal is depressed. If the warning appears due to the extremely low remaining capacity of Li-ion battery, stop the vehicle in a safe location and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 5. Power limitation (cold) warning

This warning appears when the temperature of Li-ion battery becomes extremely low under extremely low outside air temperatures, when the power limitation indicator illuminates, etc. If this warning appears, vehicle speed will not increase due to the power limitation even if the accelerator pedal is depressed. If the warning appears due to the extremely low remaining capacity of Li-ion battery, stop the vehicle in a safe location and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 6. Power limitation (low charge) warning

This warning appears when the remaining capacity of Li-ion battery becomes extremely low when the power limitation indicator illuminates. If this warning appears, vehicle speed will not increase due to the power limitation even if the accelerator pedal is depressed. If the warning appears due to the extremely low remaining capacity of Li-ion battery, stop the vehicle in a safe location and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 7. Power limitation (other) warning

This warning appears due to reasons other than above. If this warning appears, vehicle speed will not increase due to the power limitation even if the accelerator pedal is depressed. If the warning appears due to the extremely low remaining capacity of Li-ion battery, stop the vehicle in a safe location and contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 8. Plug-in indicator

This indicator appears when the charge connector is connected. If the charge connector is connected to the vehicle, the power switch can not be placed in the **READY** to drive position.

### 9. Remove charge connector warning

This warning appears when the power switch is in the **ACC** or **ON** position and if the power switch is pushed to the **READY** to drive position with the brake pedal depressed, while the charge connector is inserted to the vehicle. Remove the charge connector.

### 10. EV system warning

This warning appears if EV system is not functioning properly while the vehicle is stopped with the power limitation applied. If the warning appears, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 11. Press brake pedal to operate e-pedal switch indicator

This warning is displayed when trying to turn e-Pedal off without depressing the brake pedal when the vehicle is stopped. Depress the brake pedal before pulling the e-Pedal switch.

### 12. e-Pedal system fault warning

This warning is displayed when the e-Pedal system is malfunctioning. Have the system checked soon at a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 13. Electric shift control system warning

This indicator appears if there is malfunction in the electric shift control system. This indicator appears when the parking brake is not applied, even after the vehicle has been parked. The master warning (yellow) light also illuminates and the chime sounds. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. When the power switch is in the OFF position, the chime will sound continuously. Make sure the parking brake is applied, the master warning light (red) illuminates, the warning message in the vehicle information display turns off and the chime stops. If the power switch can not be placed in the OFF position, apply the parking brake and then place it in the OFF position.

### 14. Shift control system warning

This warning appears if there are any malfunctions in the shift control system. The master warning light (yellow) also illuminates and the chime sounds. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for repair as soon as possible.

### 15. Shift position warning

This warning appears if the system cannot detect the shift position. The master warning illuminates (yellow) and the chime sounds. Make sure the shift lever is placed in a position properly.

### 16. System malfunction warning

This indicator shows the status of the following systems (where fitted):

- Lane Departure Warning
- Intelligent Lane Intervention
- Blind Spot Warning
- Rear Cross Traffic Alert
- Intelligent Emergency Braking

### 17. Intelligent driver alertness warning

This indicator appears when the Intelligent Driver Attention system detects that driver attention is decreasing.

### 18. Power will turn off to save the battery warning

This warning appears if conditions are met while the power switch is in the **ON** position for a certain period of time.

### 19. Power turned off to save the battery warning

This warning appears after the power switch is automatically placed in the **OFF** position to preserve battery charge.

### 20. Door/tailgate open warning

This warning appears if any of the doors and/or the tailgate are open or not closed securely. The vehicle icon indicates which door, or the tailgate, is open on the display. Make sure that all of the doors and the tailgate are closed.

### 21. Key is not detected warning

This warning appears in either of the following conditions:

**No key inside the vehicle:**

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

**Unregistered Intelligent Key:**

This warning appears when the power switch is placed in the **ON**, **ACC** or **READY** to drive position and the Intelligent Key can not be recognised by the system. You cannot place the power switch in the **READY** to drive position with an unregistered key. Use an Intelligent Key that has been registered.

### 22. Intelligent Key system warning

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

If this warning appears while the traction motor is stopped, the power switch can not be switched to the **READY** to drive position. If this warning appears while the power switch is in the **READY** to drive position, the vehicle can be driven. However, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### 23. 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.

### 24. Intelligent Key ID incorrect indicator

This warning appears when the power switch is switched from the LOCK position and the Intelligent Key cannot be recognised by the system. You cannot start the EV system with an unregistered key. Use the registered Intelligent Key. See ☞ "Intelligent Key system" in the "3. Pre-driving checks and adjustments" section.

### 25. Light reminder warning

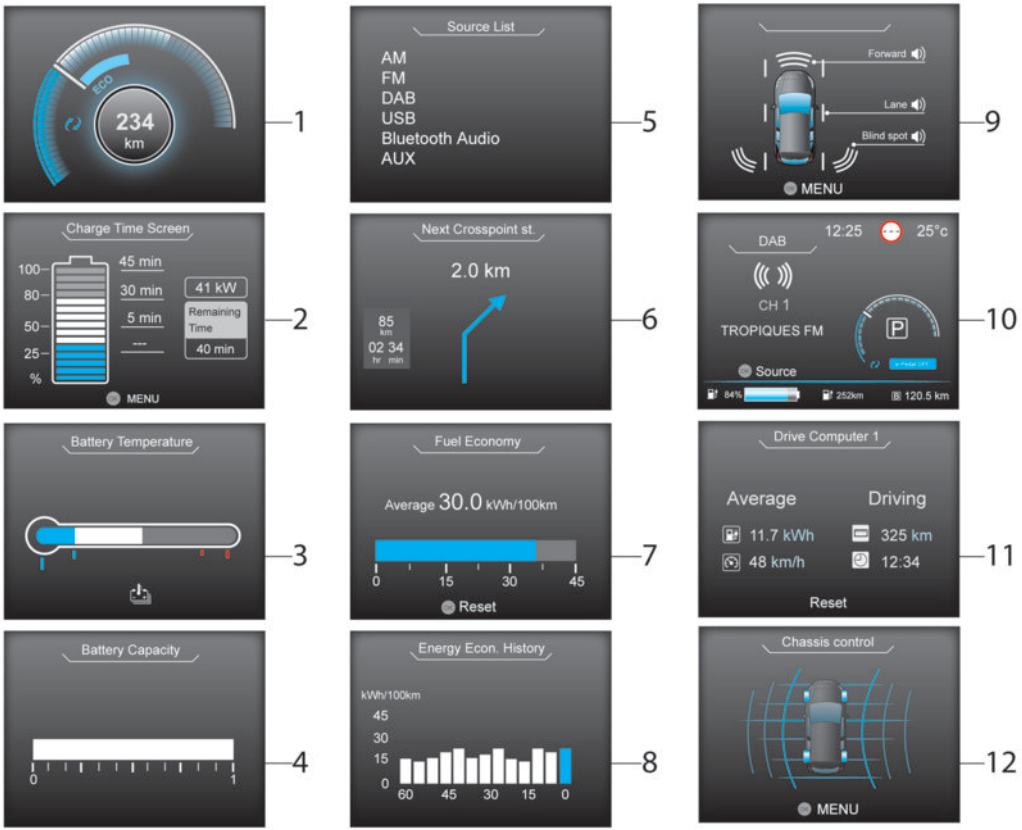
This warning appears when the power switch is placed in the **OFF** position while the headlights are still on. Turn off the headlight switch.

## TRIP COMPUTER

The trip computer display can be changed using the ◀ or ▶ and ▲ or ▼ buttons located on the steering wheel.

The following screens are available

1) Power meter
2) Estimated Charge Time
3) Li-ion battery temperature gauge
4) Li-ion battery capacity level gauge
5) Source List
6) Navigation (where fitted)
7) Energy Economy
8) Energy Economy History
9) Safety Shield (where fitted)
10) Status
11) Drive Computer
12) Chassis Control


ECO
234
km
1
Source List
AM
FM
DAB
USB
Bluetooth Audio
AUX
5
Forward
Lane
Blind spot
MENU
9
Charge Time Screen
100
80
50
25
%
45 min
30 min
5 min
---
41 kW
Remaining Time
40 min
MENU
2
Next Crosspoint st.
2.0 km
85 km
02 hr 34 min
6
DAB
12:25
25°c
CH 1
TROPIQUES FM
P
Source
84%
252km
120.5 km
10
Battery Temperature
3
Fuel Economy
Average 30.0 kWh/100km
0
15
30
45
Reset
7
Drive Computer 1
Average
Driving
11.7 kWh
325 km
48 km/h
12:34
Reset
11
Battery Capacity
0
1
4
Energy Econ. History
kWh/100km
45
30
15
0
60
45
30
15
0
8
Chassis control
MENU
12

1. POWER METER

The power meter displays the actual traction motor power consumption and the regenerative brake power provided to the Li-ion battery while driving. See ☞ "Power meter" in the "2. Instruments and controls" section.




**ECO zone**

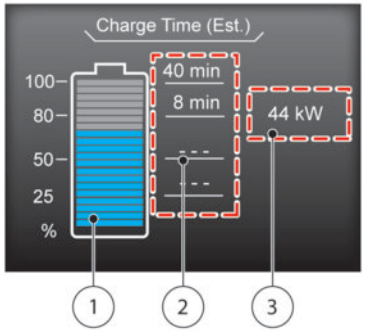
Driving with the power meter gauge in the ECO zone helps reduce the energy consumption and extend the driving range. (The ECO zone varies depending on the vehicle speed.) The ECO zone is not related to the ECO mode which is activated by the ECO switch.

2. ESTIMATED CHARGE TIME

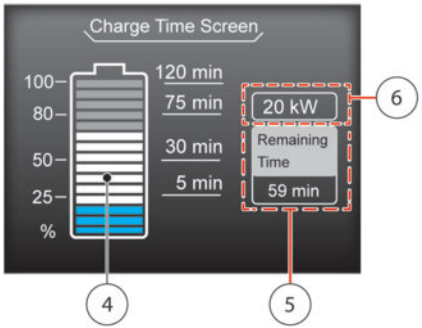
The Estimated Charge Time mode shows the estimated time to charge the Li-ion battery to a full level.

Immediately after the power switch is placed in the **ON** position, longer charging time may be displayed than the actual time required.

**How to read the display**




**Not charging**




**While charging (quick charge)**

The displayed charging time is calculated based on the electrical power (supplied to the charger), which is selected in the [Charge Time Screen] setting under the EV Settings menu.

the display shows:

1) The currently remaining Li-ion battery charge level.

2) The estimated charging time to reach each percentage (25%, 50%, 80%, and 100%) of the Li-ion battery level.
   - If the estimated charging time is longer than 24 hours, [Over 24hr] is displayed.
   - When the currently remaining Li-ion battery level exceeds each percentage level, the charging time will be displayed as [---].
   - When the Li-ion battery was fully charged, all the charging time information will be displayed as [---].
3) The currently selected electrical power (supplied to the charger).
4) The estimated charge level of the Li-ion battery to be reached when the remaining charging time has passed.
5) According to the current Li-ion battery charging status, the estimated remaining time is displayed in either of the following styles:
   - [Remaining Time]
     The remaining charging time before the quick charge is shut off. While quick charging, it is displayed when the estimated charge level of the Li-ion battery ④ is over 80%.
   - [Time to 80%]
     The remaining charging time before the Li-ion battery level is expected to reach 80%. While quick charging, it is displayed when the estimated charge level of the Li-ion battery ④ is under 80%. (After the charge level reaches 80%, the remaining charging time will go off, but the charging continues until the Li-ion battery is charged to a full level, or charging end time set by the charger is reached.)
6) The electrical power that is actually supplied while quick charging.

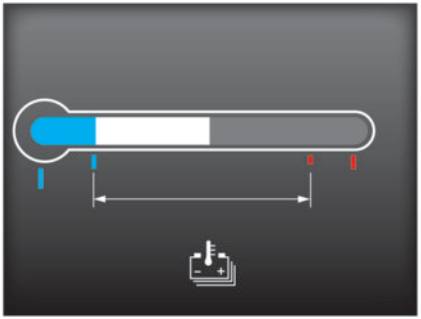
When charging is not performed, pushing the **<OK>** button on the steering wheel will switch the display to the [Charge Time Screen] menu. Select the electrical power that you wish to show in the Estimated Charge Time display.

**NOTE:**

- **While charging, the estimated charging time is calculated based on the electrical power that is currently supplied to the charger.**
- **For quick charging, the estimated charging time ② that can be displayed is up to 4.5 hours. When the estimated charging time is longer than 4.5 hours, the displayed time may differ from the actual charging time. This is not a malfunction.**
- **The electrical power for the normal charging is displayed at a fixed value. Therefore, the displayed electrical power may differ from the one that is actually supplied.**
- **While quick charging, the electrical power display ③ will change to the actual electrical power while charging. If the charging is stopped or the power supply is stopped (unplugged, etc.), the displayed electrical power returns to the selected electrical power.**
- **While quick charging, the estimated charge level display ④ may increase or decrease. This is not a malfunction.**
- **The displayed charging time on each percentage level is the current estimation, and the actual charging time will vary depending on the conditions of the vehicle or the state of charge.**
- **While [Time to 80%] is displayed, the remaining time may differ from the time shown on the quick charger.**
- **For [Time to 80%], the percentage cannot be changed from 80% to another value.**
- **Right after starting or stopping charging, the estimated charging time may be differ from the actual charging time. The actual charging time will be displayed after a while.**

3. LI-ION BATTERY TEMPERATURE GAUGE

The Li-ion battery temperature gauge indicates the temperature of the Li-ion battery.



If the indicator is over the normal range, the power limitation indicator light may illuminate and the power provided to the traction motor may be reduced. This is not a malfunction. Drive slowly to a safe location and stop the vehicle (preferably in a cool location). Wait until the temperature of the Li-ion battery is reduced.

- The temperature of the Li-ion battery is more likely to rise in the following conditions:
  - When driving at high speed continuously.
  - When climbing hills continuously.
  - After performing the quick charging repeatedly.
  - When the outside temperature is high.
- If the outside temperature is extremely low, the Li-ion battery temperature gauge may not display a temperature reading. The vehicle may not switch to the READY to drive mode.
- When the temperature of the Li-ion battery is higher or lower, it may take more time to charge the Li-ion battery using a quick charger.

4. LI-ION BATTERY CAPACITY LEVEL GAUGE

The Li-ion battery capacity level gauge indicates the amount of charge the Li-ion battery is capable of storing.

When the capacity of the Li-ion battery decreases with age and usage, the level of the gauge will also decrease.

5. AUDIO

The audio mode shows the status of audio information.

6. NAVIGATION (where fitted)

When the route guidance is set in the navigation system, this item shows the navigation route information.

7. ENERGY ECONOMY

The Energy Economy mode shows the instant energy economy and the average energy economy.

**Instant energy economy:**

The display changes when the energy is consumed or regenerated energy is being stored in the Li-ion battery while driving.

**Average energy economy:**

The display shows the average energy economy since the last reset. Resetting the average energy economy is done by pushing the **<OK>** button.

8. ENERGY ECONOMY HISTORY

The Energy Economy History mode shows the energy economy from the past hour by bar graph. The graph is updated every 5 minutes.

The graph continues to be updated after the power switch is placed in the **OFF** position and will be reset after 65 minutes.

9. SAFETY SHIELD (where fitted)

The Safety Shield mode shows the status of the following systems:

- Lane Departure Warning (LDW)
- Intelligent Lane Intervention (ILI)

- Blind Spot Warning (BSW)
- Intelligent Emergency Braking (IEB)

For more details, see "Lane Departure Warning (LDW) system (where fitted)" in the "5. Starting and driving" section, "Intelligent Lane Intervention system (where fitted)" in the "5. Starting and driving" section, "Blind Spot Warning (BSW) system (where fitted)" in the "5. Starting and driving" section, and "Intelligent Emergency Braking (IEB) with Pedestrian Detection system" in the "5. Starting and driving" section.

10. STATUS

    This mode shows vehicle speed and audio information.

11. DRIVE COMPUTER

    The Drive Computer mode shows the following information:

    - Average energy consumption
    - Average speed
    - Trip odometer
    - Elapsed time

    To reset each item or all items, push the **<OK>** button to switch to the Reset Menu and select a which item(s) to reset.

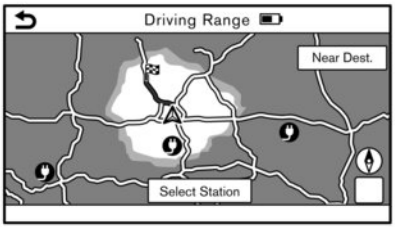
12. CHASSIS CONTROL

    When the Intelligent Trace Control system is operated, it shows the operating condition. See, "Chassis control" in the "5. Starting and driving" section.

## WARNING INFORMATION DISPLAYS (models with navigation system)

### Low battery warning

When the low battery charge warning light and the master warning light (yellow) illuminate, the system displays a message on the navigation screen that warns the driver that the battery power level is low.




1. The notification is displayed on the upper left side of the screen. Touch [Show] to display the screen showing detailed information.

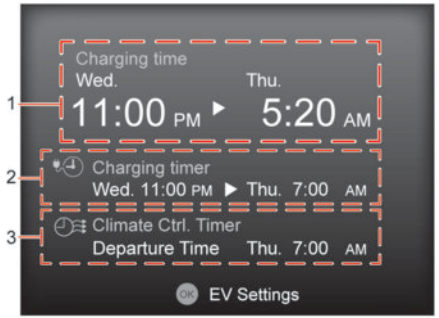



2. The system displays a message screen and announces the contents of the message to warn that the battery charge level is low. Check the message displayed on the screen. Touch [Charging station search] to search all charging stations that are located around the current vehicle position.
3. Touch the key or push the **<MAP>** button to return to the vehicle location screen.

**NOTE:**

- **The low battery warning can be set to off. See the separately provided NissanConnect Owner's Manual.**
- **When the battery power level is low, the system automatically obtains charging station information.**

## TIMER DISPLAY




**Charging timer ON/Climate Ctrl. timer ON**

The timer display appears for approximately 30 seconds when the power switch is placed in the **OFF** position.

1) Charging time
   The estimated time of charging the Li-ion battery (start time and end time) is displayed.
   - When the charging timer is set, the charging system calculates the estimated time to charge the Li-ion battery based on the electrical power supplied in the last charging using the timer, and the start time and end time are displayed.
   - When the charging timer is set to **OFF**, the estimated end time to charge the Li-ion battery to a full level in the case of performing the immediate charge. The end time is calculated based on the electrical power selected in the [Charge Time Screen] menu.
   - When the Li-ion battery was fully charged, the charging time will be displayed as [--:--].
2) Charging timer setting status
   When the charging timer is set, the start time and end time of the charging using the timer are displayed.
3) Climate Ctrl. timer setting status
   When the Climate Ctrl. timer is set, the departure time (end time) set for the Climate Ctrl. Timer is displayed.

When the **<OK>** button on the steering wheel is pushed, the display will be switched to the [EV Settings] menu. In the EV Settings, the setting of the charging timer and Climate Ctrl. timer can be changed. (See ☞ "Settings" in the "2. Instruments and controls" section earlier in this section for the settings menu of the Vehicle Information Display.)

When the ▲ or ▼ button on the steering wheel is pushed while the timer display is shown, the display is switched to the ECO Drive Report (if the vehicle was driven).

Either display will continue to be displayed for another 30 seconds when the button is operated. If the doors are locked after the power switch was placed in the **OFF** position, the display will turn off before the preset time.

For models fitted with a navigation system, the day of the week is displayed with the time (hour and minute) in the display.

In addition to the above, note the following conditions for the charging time information:

- The charging time is displayed by the 10 minutes. If the estimated charging time is longer than 24 hours, [Over 24hr] is displayed
- When the charging is set to start immediately after connecting the charge connector to the vehicle, the start time is displayed as [Charge Now].
- While being charged, the time when the charging has actually started is displayed as the start time. The end time is displayed according to the estimated charging time that was calculated based on the electrical power being supplied.
- When [Chg. Timer Only at HOME] is set to ON (models with navigation system) in the EV Settings, the start time is displayed only when the power switch is placed in the OFF position at home. If the power switch is placed in the OFF

position other than at home, the immediate charge mode is selected and [Charge Now] will appear as the start time.

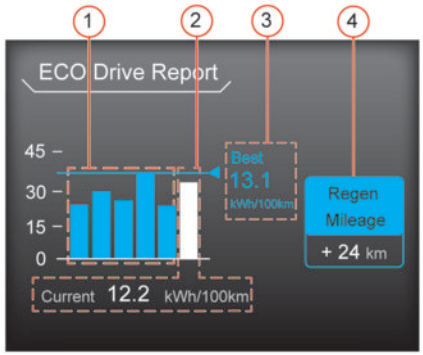
- When [Full charge has priority] is set to ON in the EV Settings and the Li-ion battery cannot be charged to a full level within the hours between the scheduled start time and end time of the charging timer, the charging time shows the time that exceeds the scheduled hours in the charging timer.
- If you need to confirm the estimated charging time depending on the available electrical power (supplied to the charger), see the Estimated Charge Time display. (See ☞ "Trip computer" earlier in this section.)

**NOTE:**

- **The displayed end time of charging is estimation. The Li-ion battery may not be charged to a full level by the estimated end time.**
- **If the charging timer and the Climate Ctrl. timer are set to operate at the same time, longer charging time will be displayed or the Li-ion battery may not be charged to a full level at the scheduled end time.**

## ECO DRIVE REPORT

The ECO Drive Report appears for approximately 30 seconds when the power switch is placed in the OFF position after the vehicle was driven for more than 500 m (0.3 miles), and the ▲ or ▼ buttons on the steering wheel are operated.




① Previous 5 times (History)

The average energy economy for the previous 5 times will be displayed.

② Current energy economy

The most recent average energy economy will be displayed.

③ Best energy economy

The best energy economy in the history will be displayed.

④ Regenerated energy (mileage)

The amount of regenerated energy stored in the Li-ion battery in one trip will be displayed in terms of distance.

If the vehicle has been driven mostly on downhill roads, more energy is regenerated. This may cause the regenerated energy (mileage) ④ to show longer distance than the vehicle was driven, or the current energy economy ② to show [99.9 km/kWh].

When the ▲ or ▼ button is pushed while the ECO Drive Report is shown, the display will be switched to the timer display. Either display will continue to be displayed for another 30 seconds when the button is operated. If the doors are locked after the power switch was placed in the **OFF** position, the display will turn off before the preset time.

In the Settings menu, you can set the ECO Drive Report not to appear when the power switch is placed in the OFF position. See [Settings] earlier in this section.

## TRAFFIC SIGN RECOGNITION (where fitted)

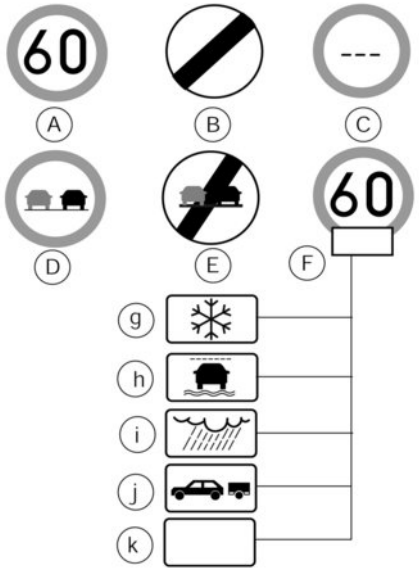
The Traffic Sign Recognition (TSR) system provides the driver with information about the most recently detected speed limit. The system captures the road sign information with the multi-sensing front camera unit located in front of the interior rear-view mirror and displays the detected signs in the Vehicle Information Display. For vehicles equipped with NissanConnect, the speed limit displayed is based on a combination of navigation system data and live camera recognition. TSR information is always displayed at the top of the Vehicle Information Display, and optionally in the main central area of the display screen. See ☞ "[Main Menu Selection]" earlier in this section for details of how to adapt the display of TSR information.

## ⚠ WARNING

**The TSR system is only intended to be a support device to 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 traffic recognition system displays the following types of road sign:




**TSR: available road signs**

Ⓐ Latest detected speed limit.

Ⓑ National speed limit.

Ⓒ No speed limit information.

Ⓓ No-overtaking zone.

Ⓔ End of no-overtaking zone.

Ⓕ Conditional speed limit, with the following available conditions:

ⓖ Snow

ⓗ Slip (rain 1)

ⓘ Rain (rain 2)

ⓙ Towing

ⓚ Generic

## ⚠ CAUTION

- **The Traffic Sign Recognition (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 Traffic Sign Recognition (TSR) system may not function properly under the following conditions:**
  - **When rain, snow or dirt adheres to the windscreen in front of the TSR 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 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.)**
- **In areas not covered by the navigation system.**
- **If there are deviations in relation to the navigation, for example due to changes in the road routing.**
- **When overtaking buses or trucks with speed stickers.**

### Turning the TSR system ON and OFF

Turning the TSR system on or off is done using the [Settings] menu in the Vehicle Information Display.

For the procedure see, ☞ "[Driver Assistance]" earlier in this section.

### 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 [Not available High cabin temperature] warning message will appear in the Vehicle Information Display.

**Action to take:**

When the interior temperature is reduced, the TSR system will resume operating automatically.

### System Malfunction

If the TSR system malfunctions it will be turned off automatically and the [System fault] warning message will appear in the Vehicle Information Display.

**Action to take:**

If the [System fault] message appears, pull off the road at a safe location and stop the vehicle. Turn the EV system off and restart the EV system. If the [System fault] message continues to appear, have the system checked by a NISSAN dealer or qualified workshop.

### Maintenance

The TSR uses the same multi-sensing front camera unit that is used by the Lane Departure Warning (LDW) system, located in front of the interior rear view mirror. For maintenance of the camera, see ☞ "Multi-sensing camera unit maintenance" in the "5. Starting and driving" section.

## SECURITY SYSTEM

Your vehicle has either or both of the following security systems:

- Theft warning system (where fitted)
- NISSAN Anti-Theft System (NATS)*

The security condition is indicated by the security indicator light.

(* immobilizer)

## THEFT WARNING SYSTEM (where fitted)

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

The ultrasonic sensors (volumetric sensing) detect movement in the passenger compartment. When the theft warning system is set to the armed position, it will automatically switch on the ultrasonic sensors.

### Security indicator light



The security indicator light, located on the meter panel, operates when the power switch is in the **LOCK**, **OFF** or **ACC** position. This is normal.

**How to activate system:**

1. Close all windows.
2. Push the power switch to the **OFF** position.
3. Close and lock all doors and the bonnet. The doors can be locked with the Intelligent Key system.
4. Confirm that the security indicator light comes on. The security indicator light blinks rapidly for about 20 seconds and then blinks slowly. The system is now activated. If, during this 20-second time period, the door is unlocked by the integrated keyfob, the Intelligent Key system, or the power switch is turned to the **ON** position, the system will not activate.

**NOTE:**
**Even when the driver and/or passengers are in the vehicle, the system will activate with all the doors locked and the power switch off. Place the power switch in the ON position to turn the system off.**

**If the system malfunctions, a short beep sounds 5 times when the system is activated. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer**

**Theft warning system operation:**

The warning system will give the following alarm:

- The hazard indicator blinks and the alarm sounds intermittently for approximately 30 seconds. (The alarm will repeat 8 times.)
- The alarm automatically turns off after approximately 30 seconds. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated when:

- Operating the door without using the integrated keyfob or the Intelligent Key system.
- Operating the bonnet.
- The volumetric sensing system (ultrasonic sensors) is triggered (when it is activated).

**How to stop alarm:**

- The alarm will stop by unlocking a door with the door handle request switch or the UNLOCK button on the Intelligent Key or the door handle request switch.
- The alarm will stop if the power switch is turned to the **ON** position.

## NISSAN ANTI-THEFT SYSTEM (NATS)

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

If the power switch can not be placed to the **READY** to drive position using the registered NATS key, it may be due to interference caused by:

- Another NATS key.
- Automated toll road device.
- Automated payment device.
- Other devices that transmit similar signals.

Place the power switch in the **READY** to drive position using the following procedure:

1. Remove any items that may be causing the interference away from the NATS key.
2. Leave the power switch in the **ON** position for approximately 5 seconds.
3. Place the power switch in the **OFF** position, and wait approximately 10 seconds.

4. Repeat steps 2 and 3 again.
5. Place the power switch to the **READY** to drive position.
6. Repeat the steps above until all possible interferences are eliminated.

If this procedure allows the power switch to be placed in the **READY** to drive position, NISSAN recommends keeping the registered NATS key separate from other devices to avoid interference.

### Security indicator light



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

The light operates when the power switch is in the **LOCK**, **OFF** or **ACC** 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 power switch is in the **ON** position.

**NOTE:**
**If the light remains on and/or the power switch cannot be placed in the READY to drive position, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for NATS service as soon as possible. Be sure to bring all NATS keys that you have when visiting a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for service.**

**For Right-Hand Drive (RHD) model:**

If NATS is malfunctioning, the security indicator light will illuminate when the power switch is in the **ON** position. However, if the security indicator light turns off after 15 minutes, you can place the power switch in the **READY** to drive position once. See a LEAF repairer such as a NISSAN certified electric vehicle dealer for NATS service as soon as possible.

## WINDSCREEN WIPER AND WASHER SWITCH

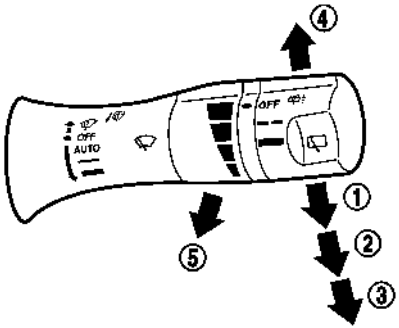
**⚠ WARNING**

**In freezing temperatures the washer solution may freeze on the windscreen and obscure your vision which may lead to an accident. Warm the windscreen with the defogger before you wash the windscreen.**

**⚠ CAUTION**

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**

**If the windscreen wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the OFF position and remove the snow or ice that is on and around the wiper arms. After approximately 1 minute, turn the switch on again to operate the wiper.**




The windscreen wiper and washer operates when the power switch is in the **ON** position.

Push the lever down to operate the wiper at the following speed:

① **<AUTO>** — **AUTO** (where fitted) operates the rain-sensing auto wiper system. (See "Rain-sensing auto wiper system" in the "2. Instruments and controls" section)

② Low (▬) — continuous low speed operation

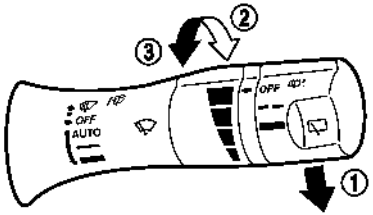
③ High (▬) — continuous high speed operation

④ MIST — one sweep operation of the wiper

## WASHER OPERATION:

To operate the washer, pull the lever toward you ⑤ until the desired amount of washer fluid is sprayed on the windscreen. The wiper will automatically operate several times.

## RAIN-SENSING AUTO WIPER SYSTEM




The rain-sensing auto wiper system automatically turns on the wipers and adjusts the wiper speed depending on the rainfall and the vehicle speed by using the rain sensor located on the upper part of the windscreen.

To set the rain-sensing auto wiper system, push the lever down to the **AUTO** position ①. The wiper will sweep once while the power switch is in the **ON** position.

The rain sensor sensitivity level can be adjusted by turning the knob toward the front ② (High) or toward the rear ③ (Low).

To turn the rain-sensing auto wiper system off, push up the lever to the **OFF** position, or pull down the lever to the ▬ (Low) or ▬ (High) position.

### ⚠ CAUTION

- **Do not touch the rain sensor and its surrounding area when the wiper switch is in the AUTO position and the power switch is in the ON position. The wipers may operate unexpectedly and cause an injury or may damage a wiper.**
- **The rain-sensing auto wipers are intended for use during rain. If the switch is left in the AUTO position, the wipers may operate unexpectedly when dirt, fingerprints, oil film or insects are stuck on or around the sensor. The wipers may also operate when exhaust gas or moisture affect the rain sensor.**
- **When the windscreen glass is coated with water repellent, the speed of the rain-sensing auto wipers may be higher even though the amount of rainfall is small.**
- **Be sure to turn off the rain-sensing auto wiper system when you use a car wash.**
- **The rain-sensing auto wipers may not operate if rain does not hit the rain sensor although it is raining.**

## REAR WINDOW WIPER AND WASHER SWITCH

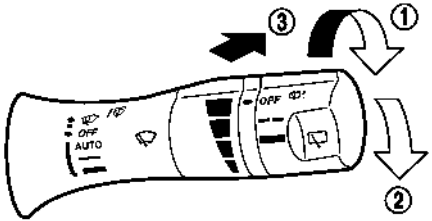
**⚠ WARNING**

**In freezing temperatures the washer solution may freeze on the rear window glass and obscure your vision. Warm the rear window with the defogger before you use the rear window washer.**

**⚠ CAUTION**

- **Do not operate the washer continuously for more than 30 seconds.**
- **Do not operate the washer if the reservoir tank is empty.**

**If the rear window wiper operation is interrupted by snow etc., the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to OFF and remove the snow etc. on and around the wiper arms. After approximately 1 minute, turn the switch ON again to operate the wiper.**




The rear window wiper and washer operates when the power switch is in the **ON** position.

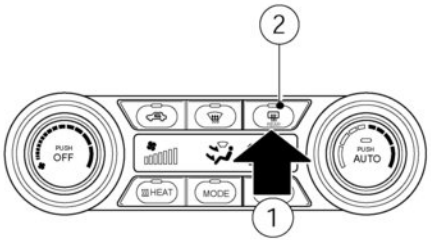
Turn the switch clockwise from the **OFF** position to operate the wiper.

① Intermittent (▬ ▬) — intermittent operation (not adjustable)

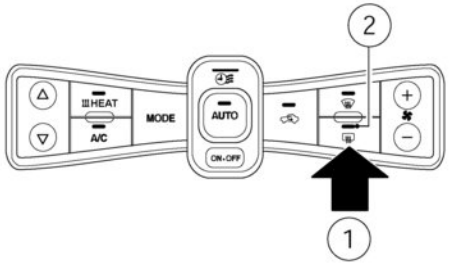
② Low (▬▬) — continuous low speed operation

Push the switch forward ③ to operate the washer. The wiper will also operate several times.

## REAR WINDOW AND OUTSIDE MIRROR DEFOGGER SWITCH (where fitted)




**Type A***




**Type B***

*: For the Right-Hand Drive (RHD) model, the layout will be the opposite.

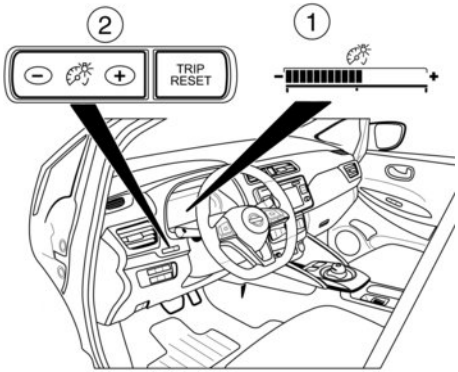
To defog/defrost the rear window and outside mirrors (where fitted), place the power switch in the **ON** position and push the switch ① in. The indicator light ② will come on. Push the switch again to turn the defogger off.

The defogger will automatically turn off after approximately 15 minutes — if the rear window clears before this time, push the switch again to turn the defogger off.

**⚠ CAUTION**

**When cleaning the inner side of the rear window, be careful not to scratch or damage the rear window defogger.**

## INSTRUMENT BRIGHTNESS CONTROL




The instrument brightness control switch can be operated when the power is placed in the **ON** position. When the switch is operated, the brightness adjustment mode appears at the bottom of the vehicle information display.

Push the + side of the switch ② to brighten the meter panel lights and instrument panel lights. The bar ① moves to the + side.

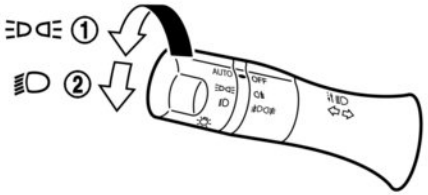
Push the - side of the switch ② to dim the lights. The bar ① moves to the – side.

When the instrument brightness control is not operated for a few seconds the brightness adjustment mode disappears and the current brightness setting will be maintained.

## HEADLIGHT AND TURN SIGNAL SWITCH

### HEADLIGHT SWITCH

#### Lighting




**Autolight system:**

The autolight system allows the headlights to be set so they turn on and off automatically.

To set the autolight system:

1. Make sure the headlight switch is in the **<AUTO>** position.
2. Place the power switch in the **ON** position.
3. The autolight system automatically turns the headlights on and off.

To turn the autolight system off, turn the switch to the ≡D◁≡ or 🚗 position.

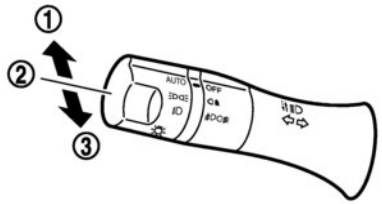
**position:**

The position turns on the front park, instrument panel, tail and number plate lights.

**position:**

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

## Headlight beam select




① To select the low beam, put the lever in the neutral position as shown.

② To select the high beam, push the lever forward while the switch is in the position. Pull it back to select the low beam.

③ Pulling the lever toward you will flash the headlight high beam even when the headlight switch is in the OFF position.

## High beam assist

The high beam assist system will operate when the vehicle is driven at speeds of approximately 40 km/h (25 MPH) and above. If an oncoming vehicle or leading vehicle appears in front of your vehicle when the 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, the colour 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 tyre, 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:**

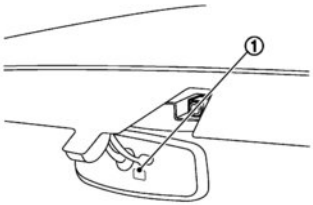
To activate the high beam assist system, place the headlight switch in the **<AUTO>** position and push the lever forward (high beam position). The high beam assist indicator light in the meter will illuminate while the headlights are turned on.

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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

When the vehicle speed lowers to less than approximately 25 km/h (16 MPH), the headlight remains the low beam.

To turn off the high beam assist system, 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 windscreen 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## "Friendly Lighting" (where fitted)

The Friendly Lighting function is a convenience feature. It allows you to provide lighting from the vehicle headlights after the power switch is placed in the **OFF** or **LOCK** position.

Pulling the headlight switch towards you once will activate the headlights and, after 30 seconds, will automatically switch off. It is possible to pull the headlight switch up to four times to increase the lighting period up to 2 minutes in 30 second increments.

**NOTE:**

- **The Friendly Lighting function can be cancelled by switching the power switch to the ACC or ON position again.**
- **To activate the Friendly Lighting function the headlight switch needs to be in the <AUTO> position.**

## Battery saver system

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

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

- The headlight switch is in the AUTO position and the front or rear fog light is turned on while the power switch is in the **ACC**, **OFF** or **LOCK** position.

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

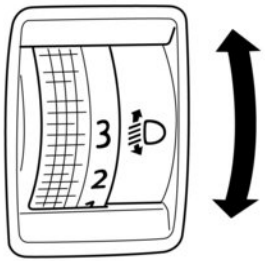
When the headlight switch is in the ≡D◁E or position while the power switch is in the **ON** position, the lights will automatically turn off after placing the power switch in the **ACC**, **OFF** or **LOCK** position and opening the driver's side door.

When the headlight switch remains in either the ≡D◁E or position after the lights automatically turn off, the lights will turn on when the power switch is in the **ON** position or **READY** to drive position.

**⚠ CAUTION**

**Do not leave the lights on when the power switch is in the OFF, ACC or ON position for extended periods of time to prevent the 12-volt battery from being discharged.**

## Headlight Aiming Control




**Manual control:**

The headlight aiming control operates when the power switch is in the **ON/READY** position and the headlight is on to allow the headlight axis to be adjusted according to the driving condition.

When driving with no heavy load/luggage or driving on a flat road, select the normal position 0.

If the number of occupants and load/luggage in the vehicle changes, the headlight axis may become higher than normal. If the vehicle is travelling on a hilly road, the headlights may directly shine on the rearview and outside mirrors of a vehicle ahead or the windscreen of an oncoming vehicle, which may obscure other drivers' vision.

To adjust to the proper aiming height, turn the switch accordingly. The higher the number, designated on the switch, the lower the headlight axis.

Select the switch position by referring to the following samples.

| Switch position | Number of front seat occupants | Number of rear seat occupants | Weight of load in luggage compartment |
|---|---|---|---|
| 0 | 1 or 2 | No occupants | No load |
| 1 | 2 | 3 | No load |
| 1 | 2 | 3 | Approximately 40 kg (88 lb) |
| 2 | 1 | No occupants | Approximately 280 kg (617 lb) |

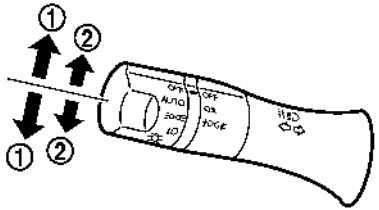
**Automatic aiming control (where fitted):**

Vehicles with LED headlights are equipped with an automatic levelling system. Headlight axis is controlled automatically.

## TURN SIGNAL SWITCH

**⚠ CAUTION**

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



### ① Turn signal

Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

### ② Lane change signal

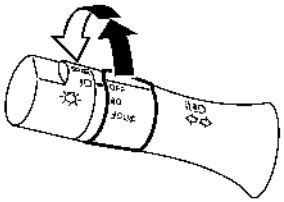
To indicate a lane change, move the lever up or down to the point where lights begin flashing.

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

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

## FOG LIGHT SWITCH

### FRONT FOG LIGHTS (where fitted)



To turn the front fog lights on, turn the fog light switch to the position with the headlight switch in the or position.

To turn the front fog lights off, turn the front fog light switch to the OFF position.

The headlights must be on for the fog lights to operate.

When the headlight switch is in the **<AUTO>** position:

- Turning the fog light switch to the position will turn on the headlights, fog lights and the other lights while the power switch is in the **ON** or **READY** to drive position.

### REAR FOG LIGHT (where fitted)

To turn the rear fog light on, turn the fog light switch to the position. The switch returns to the headlight switch to the position automatically, and the rear for light will illuminate with the front fog lights. Make sure the indicator light on the instrument panel illuminates.

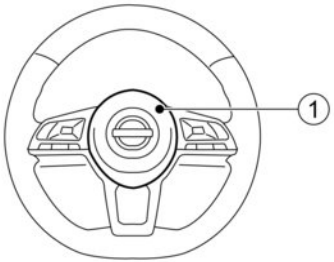
To turn the rear fog light off, turn the fog light switch to the position again. Make sure the indicator light on the instrument panel turns off.

To turn both the front and rear fog lights off, turn the fog light switch to the OFF position. When the headlight switch is in the **<AUTO>** position:

- Turning the fog light switch to the position will turn on the headlights, rear fog lights and the other lights while the power switch is in the **ON** or **READY** to drive position.

The headlights must be on for the rear fog light to operate. The rear fog light should be used only when visibility is seriously reduced (generally, to less than 100m (328ft)).

## HORN




To sound the horn, push the centre pad ① area of the steering wheel.

**⚠ WARNING**

**Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.**

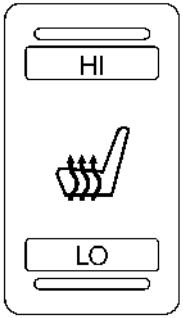
## HEATED SEATS (where fitted)

**⚠ WARNING**

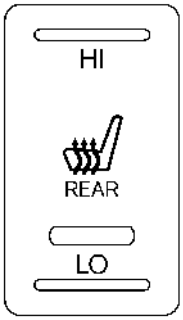
**Do not use or allow occupants to use the seat heater if you or the occupants cannot monitor elevated seat temperatures or have an inability to feel pain in those body parts in contact with the seat. Use of the seat heater by such people could result in serious injury.**

**⚠ CAUTION**

- **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 heater.**
- **Any liquid spilled on the heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use petrol, thinner, or any similar materials.**
- **If any abnormalities are found or the heated seat does not operate, turn the switch off and have the system checked by a NISSAN certified electric vehicle dealer.**




**Front**




**Rear**

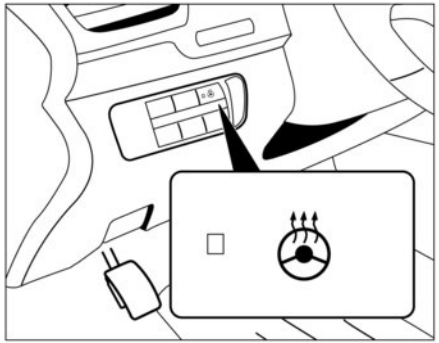
The front seats and the rear outboard seats (where fitted) can be warmed by built-in heaters. The switches located on the centre console and at the side of the front passenger seatback (where fitted for the rear seats) can be operated independently of each other.

1. Place the power switch in the **ON** position.
2. Push the **<LO>** or **<HI>** position of the switch, as desired, depending on the temperature. The indicator light in the switch will illuminate.
3. To turn off the heater, return the switch to the level position. Make sure the indicator light goes 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, be sure to turn the switch off.

## HEATED STEERING WHEEL (where fitted)



The heated steering wheel system is designed to operate only when the surface temperature of the steering wheel is below approximately 20°C (68°F).

Push the heated steering wheel switch to warm the steering wheel when the power switch is in the ON position. The indicator light ① on the switch will illuminate.

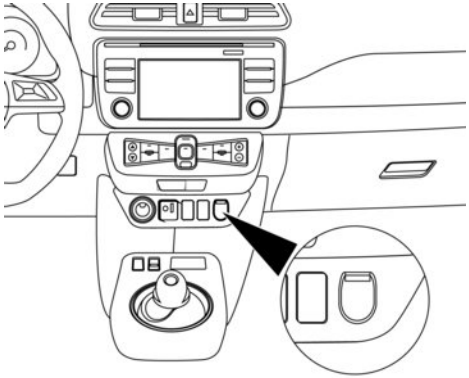
If the surface temperature of the steering wheel is below approximately 20°C (68°F), the system will heat the steering wheel and cycle off and on to maintain a temperature above 20°C (68°F). The indicator light will remain on as long as the system is on.

Push the switch again to turn the heated steering wheel system off manually. The indicator light turns off.

**NOTE:**

- **If the surface temperature of the steering wheel is above 20°C (68°F) when the switch is turned on, the system will not heat the steering wheel. This is not a malfunction.**
- **If the outside temperature is low (approximately 10°C (50°F) or less) and the Climate Ctrl. Timer is used, the steering wheel heater will automatically operate in the following conditions:**
  - **When using the Climate Ctrl. Timer: Operates from approximately 15 minutes before the set departure time until the set departure time.**

## POWER OUTLET



The power outlet is located in the instrument panel.

**⚠ CAUTION**

- **The outlet and plug may be hot during or immediately after use.**
- **Do not use with accessories that exceed a 12-volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.**
- **Use the power outlet with the power switch in the ON or READY to drive position to avoid discharging the 12-volt battery.**
- **Avoid using the power outlet when the air conditioner, headlights or rear window defogger are on.**

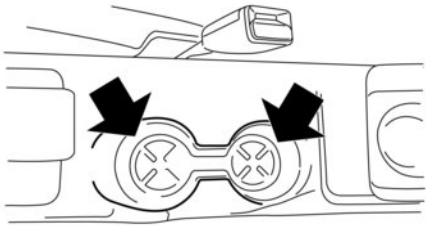
- **This power outlet is not designed for use with a cigarette lighter unit.**
- **Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may open.**
- **Before inserting or disconnecting a plug, make sure that the electrical accessory being used is turned OFF.**
- **When not in use, be sure to close the cap. Do not allow water to contact the outlet.**

## STORAGE

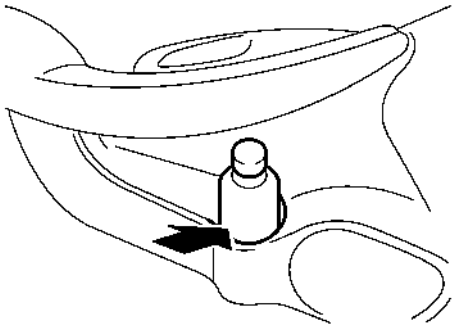
### CUP HOLDERS

**⚠ CAUTION**

- **Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.**
- **Use only soft cups in the cup holder. Hard objects can injure you in an accident.**



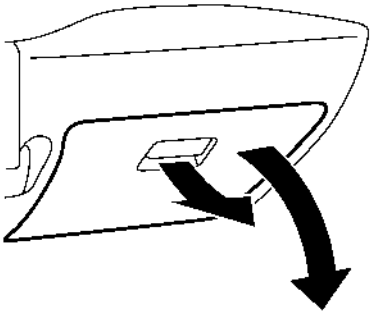
## Soft bottle holders



**⚠ CAUTION**

- **Do not use the 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 the bottle holder for open liquid containers.**

## GLOVE BOX



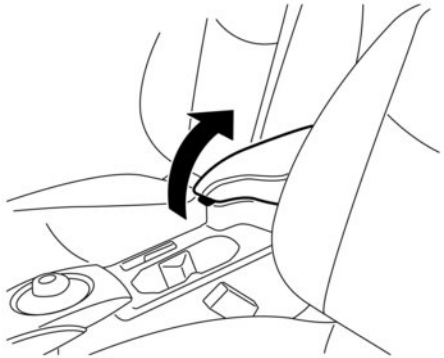
**⚠ WARNING**

**Keep the glove box lid closed while driving to prevent injury in case of an accident or a sudden stop.**

To open the glove box, pull the handle.

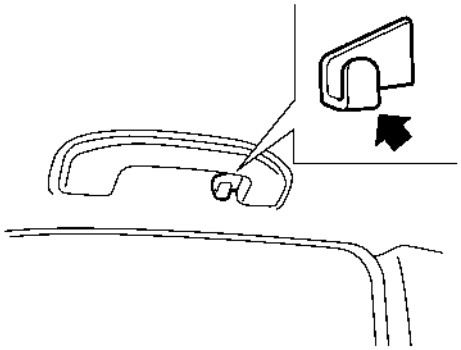
To close, push the lid in until the lock latches.

## CONSOLE BOX



To open the console box, push up the knob and pull up the lid. To close, push the lid down until it is latched.

## COAT HOOKS



**⚠ CAUTION**

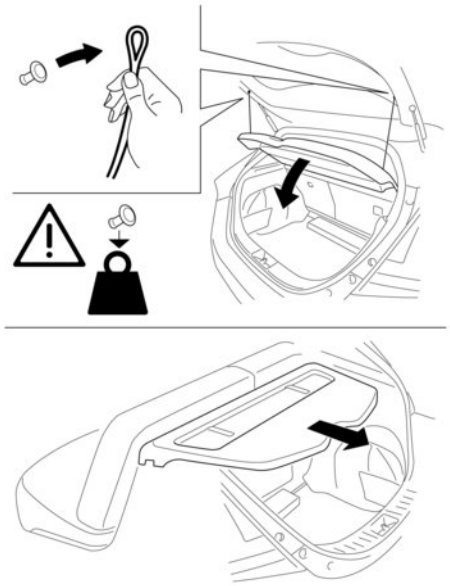
**Do not apply a load of more than 1 kg (2 lbs) to the hook.**

The coat hooks are fitted at the rear assist grips.

## TONNEAU COVER (where fitted)

**⚠ WARNING**

- **Never put anything on the tonneau cover, no matter how small. Any object on it could cause an injury in an accident or sudden stop.**
- **Do not leave the tonneau cover in the vehicle while it is disengaged from the holder.**
- **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.**
- **The child restraint top tether strap may be damaged by contact with the tonneau cover or items in the cargo area. Remove the tonneau cover from the vehicle or secure it in the cargo area. Also secure any items in the cargo area. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.**



**⚠ CAUTION**

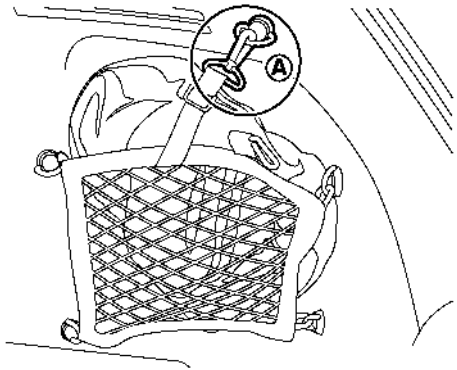
**Do not apply a total load of more than 5 kg (11 lbs) Ⓐ to each hook ① doing so may cause the hook to break.**

The tonneau cover keeps the luggage compartment contents hidden from the outside.

To remove the tonneau cover:

1. Remove the straps from the tailgate.
2. Pull up the tonneau cover.
3. Remove the tonneau cover by pulling backward.

## MODE 3 CABLE STORAGE NET




**⚠ CAUTION**

**The load capacity for cargo is 3.1 kg (6.8 lb). If cargo that weighs more than 3.1 kg (6.8 lb) is loaded, the storage net may break in a collision, or when the brakes are applied suddenly. If this occurs, there is a danger of the cargo becoming a projectile in the passenger compartment, which could cause a personal injury.**

When taking out or putting away the Mode 3 cable (where fitted), remove hook Ⓐ from anchor. When the Mode 3 cable is stored, be sure to fasten all hooks in place securely.

When you need to remove the storage net, such as for stowing a golf bag or similar item, remove all of the hooks from the anchors.

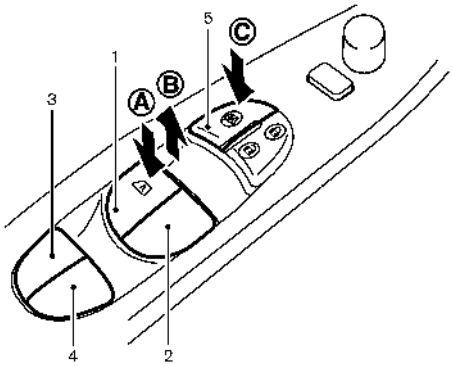
# WINDOWS

## POWER WINDOWS

**⚠ WARNING**

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **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.**

## Main power window switch




**Left-Hand Drive (LHD) model***

1. Driver side window
2. Front passenger side window
3. Rear left passenger side window
4. Rear right passenger side window
5. Window lock button

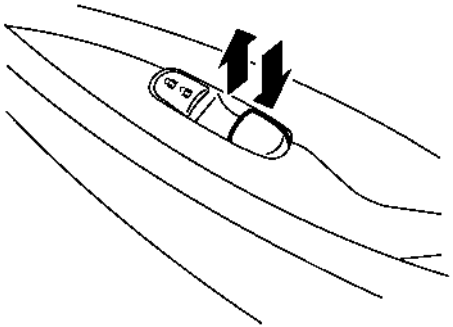
*: For the Right-Hand Drive (RHD) model, the layout will be the opposite.

To open or close the window, push down Ⓐ or pull up Ⓑ the switch and hold it. The main switch (driver's side switches) can open or close all the windows.

## Locking passenger's windows

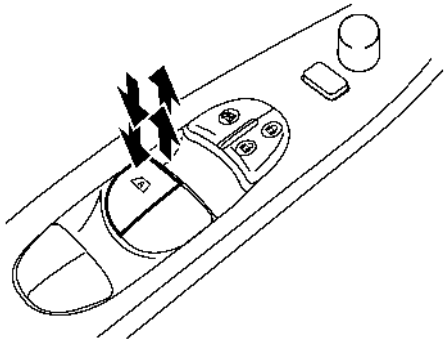
When the lock button Ⓒ is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.

## Passenger side power window switch



The passenger's side power window switch will open or close only the corresponding window. To open or close the window, push down or pull up the switch and hold it.

## Automatic operation



**Left-Hand Drive (LHD) model***

*: For the Right-Hand Drive (RHD) model, the layout will be the opposite.

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

**Except for Brazil:**

To fully open or close the window, completely push down or pull up the switch and release it; the switch need not be held. The window will automatically open or close all the way. To stop the window, just push or lift the switch in the opposite direction.

A light push or pull on the switch will cause the window to open or close until the switch is released.

**For Brazil:**

To fully open the window, completely push down the switch and release it; the switch need not be held. The window will automatically open all the way. To stop the window, just push or lift the switch in the opposite direction.

A light push on the switch will cause the window to open until the switch is released.

To fully close the window, pull up the switch until the window is closed. To stop the window, release the switch.

### Auto-reverse function

**⚠ WARNING**

**There is a small distance just before the closed position which cannot be detected. Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.**

The auto-reverse function enables a window to automatically reverse when something is caught in the window as it is closing by the automatic function. When the control unit detects an obstacle, the window will be lowered immediately.

The auto-reverse function may activate if an impact or load similar to something being caught in the window occurs.

### Reinitialisation procedure

If the driver's side main power window system does not operate properly or the driver's window does not close automatically, perform the following procedure:

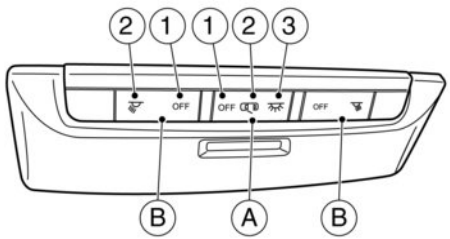
1. Place the power switch in the ON position.
2. Close the door.
3. Open the window completely by operating the power window switch.
4. Pull the power window switch and hold it to close the window, and then hold the switch more than 3 seconds after the window is closed completely.
5. Release the power window switch. Operate the window by the automatic function to confirm the initialisation is complete.

If the power window system does not operate properly after performing the procedure above, have your vehicle checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## INTERIOR LIGHTS

**⚠ CAUTION**

- **Do not use for extended periods of time with the power switch in the OFF position. This could discharge the 12-volt battery.**
- **Turn off the lights when you leave the vehicle.**




### ROOM LIGHT

The room light Ⓐ has a three-position switch.

When the switch is in the on position ③, the light illuminates.

When the switch is in the centre position ②, the room light illuminates when a door is opened.

The interior light timer will keep the room light on for a period of time when:

- The ignition is placed in the **OFF** or **LOCK** position.
- The doors are unlocked with the **UNLOCK** button (on the Intelligent Key) or the request switch with the power placed in the **LOCK** position.
- Any door is opened and then closed with the power placed in the **LOCK** position.

The interior light timer will be cancelled when:

- The driver's door is locked.
- The power is placed in the **ON** position.

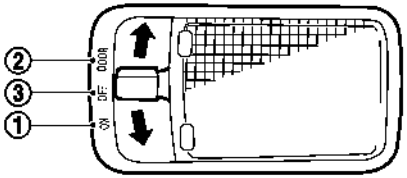
When the switch is in the <OFF> position ①, the room light does not illuminate, regardless of any condition.

## FRONT MAP LIGHTS

To turn on the front map light Ⓑ, push the on switch ②, and the light illuminates. To turn off, push the off switch ①.

### Battery saver system

If any door is left open for a period of time with the room light switch placed horizontally or the room control switch in the centre position ②, the room light will automatically turn off.




## REAR INTERIOR LIGHT

The light switch has three positions: <ON>, <DOOR> and <OFF>.

### ON position

When the switch is in the <ON> position ①, the light will illuminate.

### DOOR position

When the switch is in the <DOOR> position ②, the light will illuminate under the following conditions:

- The power switch is placed in the **LOCK** position
  - remains on for about 15 seconds.
- Doors are unlocked by pushing the UNLOCK button on the Intelligent Key or the door handle request switch with the power switch in the LOCK position.
  - remains on for about 15 seconds.
- Any door is opened and then closed with the power switch in the **LOCK** position.
  - remains on for about 15 seconds.
- Any door is opened with the power switch in the **ACC** or **ON** position
  - remains on while the door is opened. When the door is closed, the light turns off.

**The light will automatically turn off after a period of time, when the light remains on, to prevent the battery from becoming discharged.**

### OFF position

When the switch is in the <OFF> position ③, the light does not illuminate, regardless of any condition.

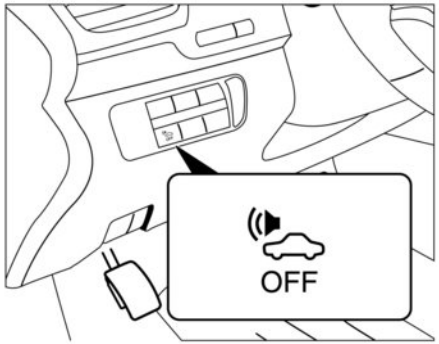
## LUGGAGE COMPARTMENT LIGHT

The light comes on automatically when the tailgate is opened.

## GLOVE BOX LIGHT

The light comes on automatically when the glove box is opened.

# APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) OFF SWITCH




The Approaching Vehicle Sound for Pedestrians (VSP) system is a system that uses sound to help alert pedestrians of the presence of the vehicle when it is being driven at a low speed.

When the vehicle starts to move, it produces a sound.

The sound stops when the vehicle speed exceeds approximately 30 km/h (19 MPH).

The sound starts when the vehicle speed is less than approximately 25 km/h (16 MPH).

The sound stops when the vehicle stops.

**Operation:**

The VSP system is automatically turned on when the vehicle is in the **READY** to drive mode. (The indicator light on the Vehicle Information Display is off.)

- Push the VSP OFF ( ) button to turn off the VSP system. (The indicator comes on when the system is off.)
- Push the button again to turn on the VSP system. (The indicator turns off.)
- The system is reset when the power switch is turned off. The VSP system is automatically turned on when the power switch is turned on again.

**NOTE:**

- **For Left-Hand Drive (LHD) models: The sound does not stop when the R (Reverse) position is selected even if the vehicle stops.**
- **If you wish to increase the volume of the VSP system, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. (It is not possible to lower the volume.)**

## ⚠ WARNING

- **Drivers must use the VSP (especially when reversing the vehicle) with due care/consideration and ensure that they comply with the laws of the jurisdiction in which they operate the VSP.**
- **The VSP system should only be turned off in certain very unusual situations, where the presence of pedestrians is very unlikely, such as in a traffic jam on a highway. The VSP should never be shut off if there is a chance pedestrians will be present.**
- **If the vehicle is driven with the VSP switch off, pedestrians may not notice the oncoming vehicle, which may cause an accident resulting in serious personal injury or death.**
- **If the sound from the VSP system is not heard while driving, stop the vehicle in a safe and quiet location. Open a window, and then place the vehicle in the R (Reverse) position with the brake pedal firmly depressed. Check that the operating sound can be heard from the front side of the vehicle.**
- **If the sound cannot be heard when the VSP system is ON (VSP OFF indicator not illuminated), immediately contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for inspection.**

# 3 Pre-driving checks and adjustments


Keys ..... 3-2
Intelligent Key ..... 3-2
Doors ..... 3-3
Super Lock System (for Right- Hand Drive (RHD) model) ..... 3-4
Locking with mechanical key ..... 3-4
Locking with inside lock knob ..... 3-4
Locking with power door lock switch ..... 3-5
Automatic door locks (where fitted) ..... 3-5
Child safety rear door lock ..... 3-6
Intelligent Key system ..... 3-6
Intelligent Key operating range ..... 3-8
Door locks/unlocks precaution ..... 3-8
Intelligent Key operation ..... 3-8
12-volt battery saver system ..... 3-10
Warning signals ..... 3-11
Troubleshooting guide ..... 3-12
Using remote keyless entry function ..... 3-13
Bonnet ..... 3-14
Tailgate ..... 3-15
Charge port lid ..... 3-16
Opening charge port lid ..... 3-16
Charge port cap ..... 3-17
Tilt steering column ..... 3-17
Tilt operation ..... 3-17
Sun visors ..... 3-18
Mirrors ..... 3-18
Inside rearview mirror ..... 3-18
Outside mirrors ..... 3-19
Vanity mirror ..... 3-21

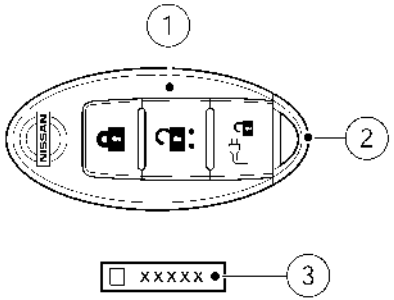
## KEYS

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for duplicates by using the key number. NISSAN does not record any 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**NOTE:**
**Do not leave the keys inside the vehicle when leaving the vehicle.**

### INTELLIGENT KEY




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

Your vehicle can only be driven with the Intelligent Keys which are registered to your vehicle's Intelligent Key system components and NISSAN Anti-Theft System (NATS*) components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer prior to use with the Intelligent Key system and NATS of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. It is possible that the Intelligent Key functions became cancelled. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

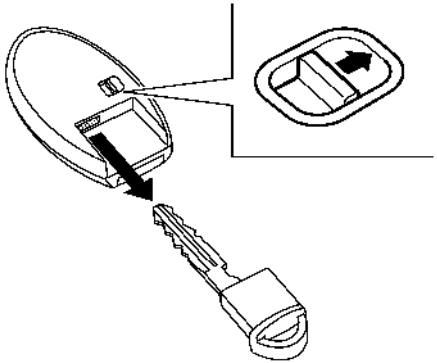
*: Immobilizer

**⚠ CAUTION**

- **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.**
  **— 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 magnetic key holder.**
  **— Do not place the Intelligent Key near an electric appliance such as a television set, personal computer or mobile 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 unauthorised use to unlock the vehicle. For information regarding the erasing procedure, please contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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. (See "Doors" later in this section.)

**⚠ CAUTION**

**Always carry the mechanical key installed in the Intelligent Key.**

## DOORS

**⚠ 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.**

## SUPER LOCK SYSTEM (for Right-Hand Drive (RHD) model)

**⚠ WARNING**

**For Super Lock System equipped models, failure to follow the precautions below may lead to hazardous situations. Make sure the Super Lock System activation is always safely conducted.**

- **When the vehicle is occupied, never lock the doors with the Intelligent Key. Doing so will trap the occupants, since the Super Lock System prevents the doors from being opened from the inside of the vehicle.**
- **Only operate the Intelligent Key lock button when there is a clear view of the vehicle. This is to prevent anybody from being trapped inside the vehicle through the Super Lock System activation.**

Locking the doors with the Intelligent Key or the door handle/tailgate request switch will lock all doors, including the tailgate, and activate the Super Lock System. This means that none of the doors can be opened from the inside in order to prevent theft. The system will be released when the door is unlocked with the Intelligent Key or the door handle/tailgate request switch.

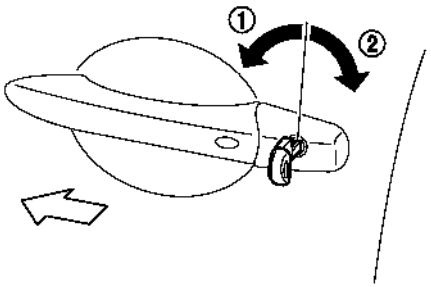
The Super Lock System will not activate when the doors are locked with the power door lock switch or the key.

### Emergency situations

If the Super Lock System is activated due to a traffic accident or other unexpected circumstances while you are in the vehicle:

- Place the power switch in the ON position. The Super Lock System will be released and all the doors can be unlocked with the power door lock switch. You can then open the doors.
- Unlock the door using the Intelligent Key. The Super Lock System will be released and you can open the door.

## LOCKING WITH MECHANICAL KEY



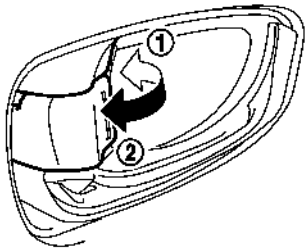

To lock the door, insert the key into the door key cylinder and turn the key to the front side of the vehicle ①. The driver's side door will lock.

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

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

## LOCKING WITH INSIDE LOCK KNOB

### Left-Hand Drive (LHD) model



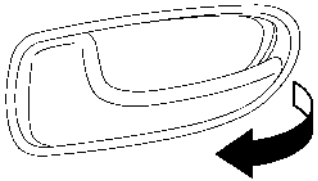

To lock the door without the key, move the inside lock knob to the lock position ① then close the door.

To unlock, move the inside lock knob to the unlock position ②.

When the front door is locked, pulling the front door handle will unlock the front door.

**When locking the door without a key, be sure not to leave the key inside the vehicle.**

### Right-Hand Drive (RHD) model



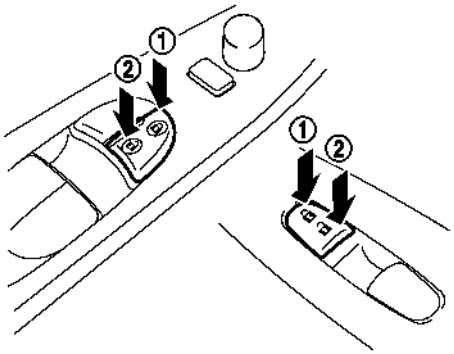
To unlock and open the door, pull the inside door handle as illustrated.

The doors can not be opened by using the inside door handle when the Super Lock System is activated.

## LOCKING WITH POWER DOOR LOCK SWITCH

**⚠ CAUTION**

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




Operating the power door lock switch will lock or unlock all the doors. The switches are located on the driver's and front passenger's door armrests.

### Model without Super Lock System

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

**When locking the door this way, be sure not to leave the key inside the vehicle.**

To unlock the doors, push the power door lock switch to the unlock position ②.

### Model with Super Lock System

To lock the doors, push the power door lock switch to the lock position ① with the driver's or front passenger's door open, then close the door. All doors including the tailgate will lock. To unlock, push the power door lock switch to the unlock position ②. When the Super Lock System is activated, it is not possible to operate the power door lock switch.

### Lockout protection

The power door lock switch will not lock the doors under the following conditions:

- When the Intelligent Key is left inside of the vehicle and any door is open.
- When any door except for the driver's door is open.

## AUTOMATIC DOOR LOCKS (where fitted)

When the "LOCK" button, on the power door lock switch, is pressed all doors will be locked and it will be automatically unlocked, if the power switch is placed in the OFF position.

**To activate or deactivate or the automatic door unlock system**:

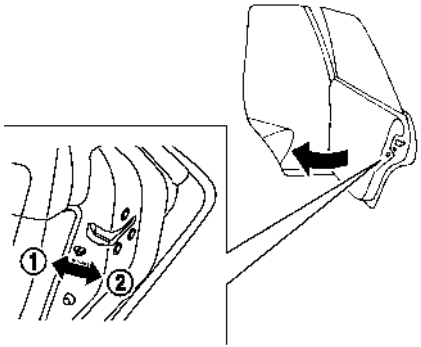
1. Close all doors.
2. Place the power switch in the ON position.
3. Within 20 seconds of performing step 2.

   **Push and hold the power door lock switch to the "UNLOCK" position for more than 5 seconds.**

4. When activated, the hazard warning lights will flash twice. When deactivated, the hazard warning lights will flash once.
5. The power switch must be placed in the OFF and ON position again between each setting change.

When the automatic door unlock system is deactivated, the doors do not unlock when the power switch is placed in the "OFF" position. To unlock the door manually, use the inside lock knob or the power door lock switch (driver's or front passenger's side).

## CHILD SAFETY REAR DOOR LOCK




Child safety rear door locks help prevent the rear doors from being opened accidentally, especially when small children are in the vehicle.

**When the levers are in the lock position ①, the rear doors can be opened only from the outside.**

To disengage, move the levers to the unlock position ②.

## INTELLIGENT KEY SYSTEM

### ⚠ 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 aeroplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.**

The Intelligent Key system can operate all the door and the tailgate locks by using the integrated keyfob 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 items 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 communicating with the vehicle using 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 or broadcasting station.
- When in possession of wireless equipment, such as a mobile phone, transceiver or 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 Intelligent Key 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.

For information regarding replacement of a battery, see ☞ "Intelligent Key battery replacement" in the "8. Maintenance and do-it-yourself" section.

When the Intelligent Key battery is almost discharged, firmly apply the footbrake and touch the power switch with the Intelligent Key. Then push the power switch while depressing the brake pedal within 10 seconds after the chime sounds. For details, see ☞ "Push-button power switch" in the "5. Starting and driving" section.

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

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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

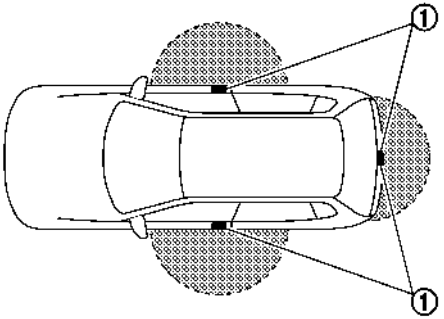
**⚠ CAUTION**

- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the functioning of the system.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed 60°C (140°F).**
- **Do not attach the Intelligent Key to a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment, personal computer or mobile phone.**
- **If the outside temperature is below -10°C (14°F), the Intelligent Key may not function properly.**
- **The Intelligent Key may be damaged if it gets wet. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **Make sure the Intelligent Key battery is in good condition. Note that battery life may vary depending on condition, amount of use, ambient temperature, etc.**

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 unauthorised use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

The Intelligent Key function can be disabled. For information about disabling the Intelligent Key function, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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.

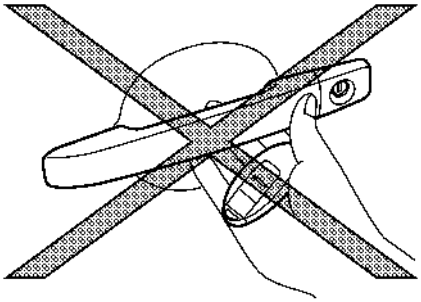
When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 80 cm (31.50 in) from each request switch ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper, the request switches may not function.

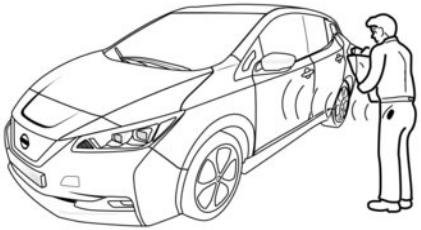
When the Intelligent Key is within the operating range, it is possible for anyone who does not carry the Intelligent Key to push the request switch to lock/unlock the doors including the tailgate.

## DOOR LOCKS/UNLOCKS PRECAUTION



- 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 recognising that the Intelligent Key is outside the vehicle.
- After locking with the door handle request switch, verify the doors are securely locked by operating the door handles.
- 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.
- The Intelligent Key system (opening/closing doors with the door handle request switch) can be set to remain inactive. See "Settings" in the "2. Instruments and controls" section.

## INTELLIGENT KEY OPERATION









Ⓐ Door handle request switch

Ⓑ Tailgate request switch

Ⓒ Tailgate opener switch

You can lock or unlock the doors without taking the key out of your pocket or bag.

When the Intelligent Key is within the range of operation, you can lock or unlock all doors by pushing the door handle request switch on driver's or front passenger's door Ⓐ or the tailgate request switch Ⓑ.

When you lock or unlock the doors or the tailgate, the hazard indicator lights will flash as a confirmation.

## Locking doors

1. Push the power switch to the OFF position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors and the tailgate. *2
3. Push the door handle request switch on the driver's or front passenger's door Ⓐ or the tailgate request switch Ⓑ while carrying the Intelligent Key with you.*3
4. All the doors and the tailgate will lock.
5. The hazard indicator lights flash twice and the outside chime sounds twice.

*1: Doors will not lock with the Intelligent Key while the power switch is in the ACC or ON position.

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

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

### ⚠ CAUTION

- **After locking the door using the request switch, make sure that the doors have been securely locked by operating the door handles.**
- **When locking the doors using the request switch, make sure to have the Intelligent Key in your possession before operating the request switch to prevent the Intelligent Key from being left in the vehicle.**
- **The request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.**

**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 (where fitted) after getting out of the vehicle, all the doors will unlock automatically and a chime will sound after the door is closed.

- When the Intelligent Key is left in the vehicle while the driver's door is opened and you try to lock the door using the power door lock switch after getting out of the vehicle, all the doors will unlock automatically after the power door lock switch is operated.

**⚠ 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 tonneau cover (where fitted).**
- **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.**

**The lockout protection may function when the Intelligent Key is outside the vehicle but is too close to the vehicle.**

## Unlocking doors

**All door unlock mode:**

When you first receive the vehicle, the door unlock mode is set to unlock all the doors with one push on the door handle request switch.

1. Carry the Intelligent Key
2. Push the door handle request switch (driver's or front passenger's) Ⓐ or the tailgate request switch Ⓑ once while carrying the Intelligent Key with you.
3. All doors and the tailgate will be unlocked.
4. Operate the door handles to open the doors.

**Selective door unlock mode:**

1. Carry the Intelligent Key with you.
2. Push the door handle request switch (driver's or front passenger's) Ⓐ or the tailgate request switch Ⓑ once while carrying the intelligent Key with you.
3. The corresponding door will be unlocked.
4. Push the door handle request switch (driver's or front passenger's) Ⓐ or the tailgate request switch Ⓑ again within 5 seconds.
5. All doors will be unlocked.
6. Operate the door handles to open the doors.

**Switching door unlock mode:**

To switch between all doors unlock mode and selective door unlock mode, push the LOCK and UNLOCK buttons on the Intelligent Key simultaneously for more than 4 seconds. For details, see "Switching door unlock mode" later in this section.

**Automatic relock:**

All doors will be locked automatically unless one of the following operations is performed within 30 seconds after pushing the request switch while the doors are locked:

- Opening any door.
- Pushing the power switch.

If during this preset time period, the button on the Intelligent Key is pushed, all doors will be locked automatically after the next preset time.

## Opening tailgate

1. Carry the Intelligent Key.
2. Push the tailgate opener switch Ⓒ.
3. The tailgate will unlock and open.

# 12-VOLT BATTERY SAVER SYSTEM

When all the following conditions are met for period of time, the battery saver system will cut off the power supply to prevent 12-volt battery discharge.

- Power switch is in ACC or ON position
- All doors are closed
- The vehicle is in the P (Park) position

The battery saver feature will be suspended if any of the following occur:

- Any door is opened
- Power switch position is changed
- Shift lever position is changed
- Hazard flasher switch is on

## WARNING SIGNALS

To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key listed on the following chart or to help prevent the vehicle from being stolen, chime or beep sounds inside and outside the vehicle and a warning displays in the vehicle information display.

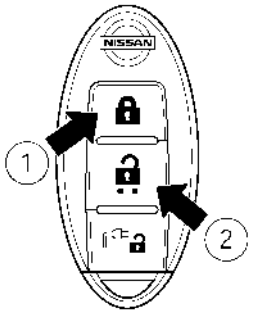
When a chime or beep sounds or the warning displays, be sure to check the vehicle and Intelligent Key.

## 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 power switch is placed in the **OFF** position while the driver's door is open. | Close the driver's door. |
| | | The power switch is in the **ACC**position. | Place the power switch in the **OFF** position then close the driver's door. |
| When closing the door after getting out of the vehicle | The KEY is not detected warning appears on the display, the outside chime sounds 3 times and the inside warning chime sounds for a few seconds. | The power switch is in the **ACC** or **ON** position. | Place the power switch in the **OFF** position. |
| | The outside chime sounds continuously. | The power switch is in the **ACC** or **OFF** position, the electric shift control system has malfunctioned and the vehicle cannot be placed in the P (Park) position when the parking brake is not applied. | Confirm the parking brake is applied. |
| When closing the door with the inside lock knob (where fitted) turned to LOCK | The outside chime sounds for a few seconds and all the doors unlock. | The Intelligent Key is inside the vehicle or cargo area. | Carry the Intelligent Key with you. |
| When pushing the request switch or the button on the Intelligent Key to lock the door | The outside chime sounds for a few seconds. | The Intelligent Key is inside the vehicle or a cargo area. | Carry the Intelligent Key with you. |
| | | A door is not closed securely. | Close the door securely. |
| When placing the power switch in the **READY** to drive position | The Intelligent Key battery discharge indicator appears on the display. | The Intelligent Key battery charge is low. | Replace the battery with a new one. (See "Intelligent Key battery replacement" in the "8. Maintenance and do-it-yourself" section.) |
| | The Key is not detected warning appears on the display and the inside warning chime sounds for a few seconds. | The Intelligent Key is not in the vehicle. | Carry the Intelligent Key with you. |
| When pushing the power switch | The Intelligent Key system warning indicator light appears on the display. | It warns of a malfunction with the Intelligent Key system. | Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. |

## USING REMOTE KEYLESS ENTRY FUNCTION

### Operating range




It is possible to lock/unlock all doors including the tailgate using the remote keyless entry system. 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.

For information regarding the replacement of the Intelligent Key battery, see "Intelligent Key battery replacement" in the "8. Maintenance and do-it-yourself" section.

**⚠ WARNING**

**For Super Lock System equipped models, failure to follow the precautions below may lead to hazardous situations. Make sure the Super Lock System activation is always safely conducted.**

- **When the vehicle is occupied, never lock the doors with the Intelligent Key. Doing so will trap the occupants, since the Super Lock System prevents the doors from being opened from the inside of the vehicle.**
- **Only operate the Intelligent Key lock button when there is a clear view of the vehicle. This is to prevent anybody from being trapped inside the vehicle through the Super Lock System activation.**

### Locking doors

1. Place the power switch in the **LOCK** position and make sure you have the Intelligent Key with you when exiting the vehicle.
2. Close all doors (including the tailgate).
3. Push the button ① on the Intelligent Key.
   - All doors will be locked.
   - Hazard indicator lights flash once.
4. Operate the door handles to confirm that the doors have been securely locked.

**NOTE:**
**If the Intelligent Key is left in the vehicle and the door/tailgate outside lock switch is pressed, a buzzer will sound, warning the owner that the Intelligent Key has been left inside the vehicle.**

### Unlocking doors

**All doors unlock mode:**

When you first receive the vehicle, the door unlock mode is set to unlock all the doors with one push on the button ②.

Push the button on the Intelligent Key.

- All doors (including the tailgate) will be unlocked.
- Hazard indicator lights flash twice.

**Selective door unlock mode:**

Selective door unlock mode allows the remote unlocking of only the driver's door to prevent an attacker from entering the vehicle via an unlocked passenger door.

1. Push the button on the Intelligent Key.
   - The driver's door unlocks.
   - Hazard indicator lights flash twice quickly.
2. Push the button on the Intelligent Key again.
   - All doors (including the tailgate) will be unlocked.

– Hazard indicator lights flash twice.

**Switching door unlock mode:**

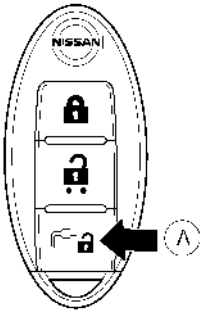
Follow the instructions below to switch between all doors unlock mode and selective door unlock mode.

1. Place the power switch in the **LOCK** position and exit the vehicle.
2. From outside the vehicle, lock the vehicle using button.
3. Push and hold both the and buttons on the Intelligent Key at least for 4 seconds.
   - When the selective door unlock mode is set, the hazard indicator lights flash once.
   - When the all door unlock mode is set, the hazard indicator lights flash 3 times.
4. Push button to activate the mode.

**Automatic relock:**

All doors will be locked automatically unless one of the following operations is performed within 30 seconds after pushing the button on the Intelligent Key while the doors are locked. If during this 30-second time period, the button on the Intelligent Key is pushed, all doors will be locked automatically after another 30 seconds.

- Opening any door or tailgate.
- Pushing the power switch.




**Opening charge port lid:**

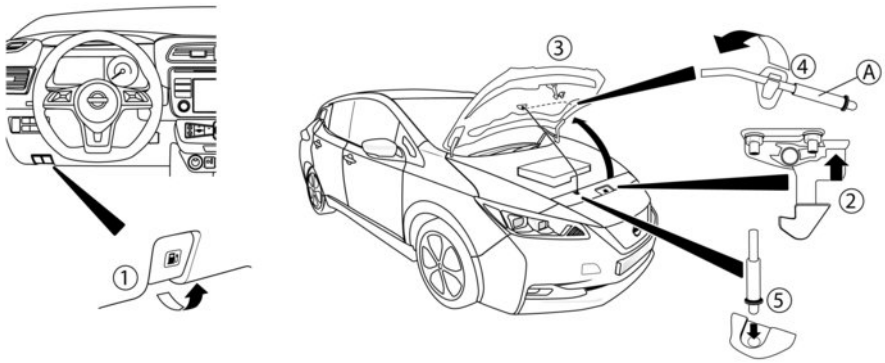
The charge port lid may be opened by pressing and holding the charge connector lock button Ⓐ.

For additional information, see "Charge port lid" later in this section.

## BONNET

### ⚠ WARNING

- **Make sure that the bonnet is completely closed and latched before driving. Failure to do so could cause the bonnet to open during driving and result in an accident.**
- **If steam or smoke is emitting from the motor compartment, do not open the bonnet. Doing so could cause an injury.**




When opening the bonnet:

**Hold the coated part Ⓐ of the support rod. Avoid direct contact with the metal parts because they may be hot immediately after the electric vehicle system has been stopped.**

1. Pull the bonnet release handle ① located below the instrument panel. The bonnet will then spring up slightly.
2. Locate the lever ② in between the bonnet and charge port lid, and push the lever upward with your fingertips.
3. Raise the bonnet ③.
4. Remove the support rod ④ from the bonnet and insert it into the slot ⑤.

When closing the bonnet:

**⚠ CAUTION**

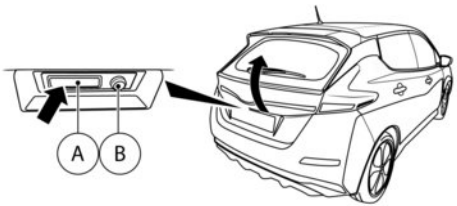
**Before closing the bonnet, make sure to release the support rod and store it in the original position. Otherwise the support rod will be damaged.**

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

## TAILGATE

**⚠ WARNING**

- **Always make sure that the tailgate has been closed securely to prevent it from opening while driving.**
- **Do not drive with the tailgate open.**
- **Make sure that all passengers have their hands, etc. inside the vehicle before closing the tailgate.**




To open the tailgate, unlock it with one of the following operations, then push the tailgate opener switch Ⓐ and pull up the tailgate to open it.

- Push the UNLOCK button on the Intelligent Key once (or twice *).

- Push the door handle request switch once (or twice *).
- Insert the mechanical key into the driver's door key cylinder and turn it towards the rear of the vehicle once (or twice*).
- Push the power door lock switch on the driver's door to the unlock position.
- Push the tailgate request switch Ⓑ (Make sure to carry the Intelligent Key with you).
- Push the tailgate opener switch.

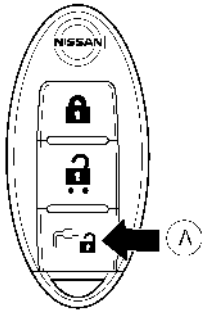
*: when the door lock mode is set in the selective door unlock mode.

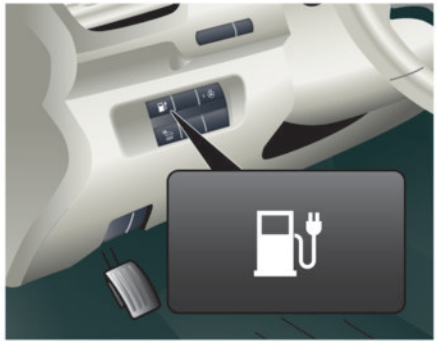
# CHARGE PORT LID

## OPENING CHARGE PORT LID

**⚠ CAUTION**

**Make sure that the charge port lid is completely closed and latched before driving. Failure to do so could cause the lid to open suddenly during driving.**



1. To open the charge port lid, perform one of the following operations:
   - Press and hold the charge port lid opener button Ⓐ on the Intelligent Key for more than 1 seconds or,
   - Press the charge port lid opener switch located on the instrument panel

   The charge port lid will open and a chime will sound 3 times and the charging status indicator lights flash 3 times.
2. Open the lid to the fully open position.

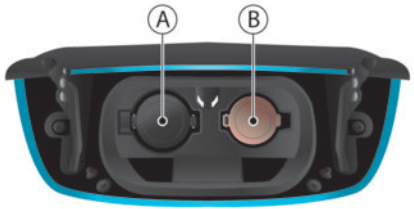
To close the charge port lid:

1. Slowly move the lid down.
2. Lock it securely into place.

**If the charge port lid cannot be unlocked:**

1. Open the bonnet.
2. Remove the plastic cover.
3. Turn the knob behind the charge port lid 1 turn anti clockwise, and the port is unlocked.

## CHARGE PORT CAP




Ⓐ Quick charge port

Ⓑ Normal charge port

Press the latch to open the cap. When closing the charge port cap, it will lock automatically.

**NOTE:**
**For models with 60 kWh battery: The quick charge port cap is marked e+ for identification.**

### ⚠ CAUTION

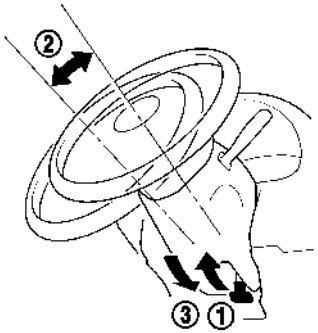
- **When charging is finished, be sure to close the charge port cap. If water or dust gets inside the charge port, this may cause a malfunction.**
- **Close the charge port cap before closing the charging lid. The charge port cap can be damaged if it is open when closing the charge port lid.**

## TILT STEERING COLUMN

### ⚠ WARNING

**Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.**

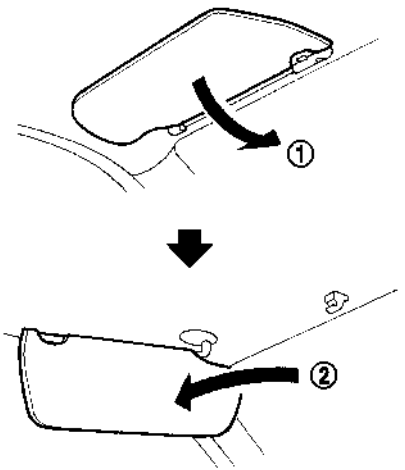
## TILT OPERATION




Release the lock lever up ①, adjust the steering wheel up or down ② until the desired position is achieved.

Firmly push the lock lever down ③ back into position to lock the steering wheel in place.

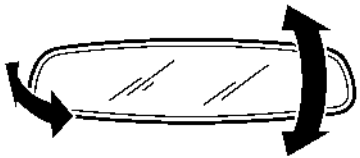
## SUN VISORS




1. To block out glare from the front, move the sun visor ① downwards.
2. To block glare from the side, remove the sun visor from the centre mount and move it to the side ②.

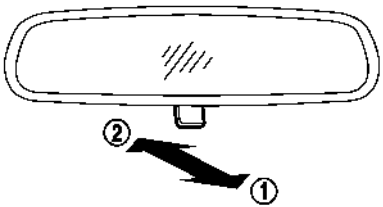
## MIRRORS

### INSIDE REARVIEW MIRROR



Adjust the angle of the inside rearview mirror to the preferred position.

#### Manual anti-glare type (where fitted)

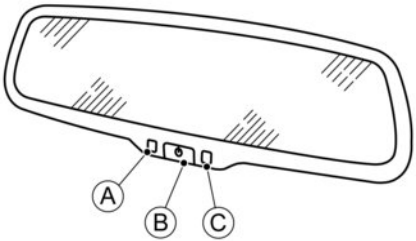



The night position ① will reduce glare from the headlights of vehicles behind you at night.

Use the day position ② when driving in daylight hours.

**⚠ WARNING**

**Use the night position only when necessary, because it reduces rear view clarity.**




### Automatic anti-dazzling inside mirror (where fitted)

The inside mirror is designed so that it automatically adjusts the reflection according to the intensity of the following vehicle's headlights on the sensor Ⓒ.

The automatic anti-dazzling inside mirror will operate when the power switch is in the **ACC** or **ON** position. The light Ⓐ shows the system is activated.

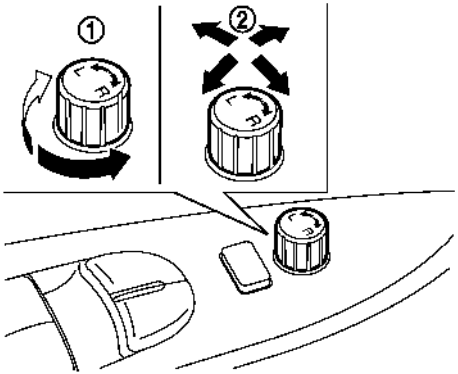
The automatic anti-dazzling inside mirror can be deactivated by pressing the power button Ⓑ. The light Ⓐ will turn off to show system deactivation.

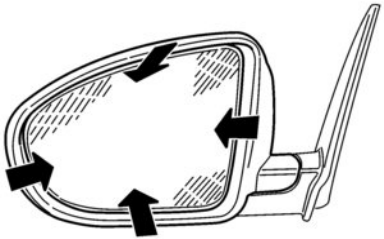
**⚠ CAUTION**

**Do not cover the sensor, hang any object on the mirror or spray glass cleaner directly on the mirror. Doing so will reduce the sensitivity of the sensor, resulting in improper operation.**

## OUTSIDE MIRRORS

### Adjusting outside 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.**
- **The picture dimensions and distance in the outside mirrors are not real.**

The outside mirror control switch is located on the armrest.

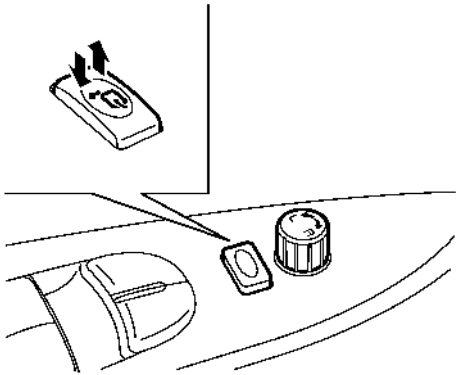
The outside mirror will operate only when the power switch is in the **ACC**, **ON** or **READY** position.

Turn the switch right or left to select the right or left side mirror ①, then adjust the mirror using the control switch ②.

## Defogging (where fitted)

The outside mirrors will be heated when the rear window defogger switch is operated. (See ☞ "Rear window and outside mirror defogger switch (where fitted)" in the "2. Instruments and controls" section.)

## Folding outside mirrors (where fitted)



**Remote control type (where fitted):**

The outside rearview mirror remote control operates when the power switch is in the **ACC**, **ON** or **READY** position.

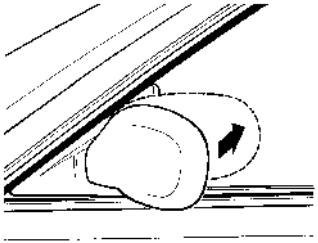
The outside rearview mirrors automatically fold when the outside rearview mirror folding switch is pushed. To unfold, push the switch again.

**⚠ CAUTION**

**Continuously performing the fold/unfold operation of the outside rearview mirror may cause the switch to stop the operation. To restore the switch operation, push the switch to the neutral position before adjusting the mirror position.**

**Auto-fold type (where fitted):**

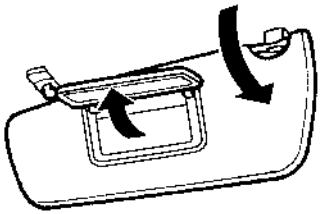
The outside rearview mirrors automatically fold when the doors are locked with the intelligent key. The mirrors unfold when the doors are unlocked and the power switch is pressed.



**Manual type:**

Fold the outside rearview mirror by pushing it toward the rear of the vehicle.

## VANITY MIRROR



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

NOTE

# 4 Display screen, heater and air conditioner (climate control system)


Safety precautions ..... 4-2
RearView monitor (where fitted) ..... 4-2
How to read the displayed lines ..... 4-3
Difference between predicted and actual distances ..... 4-3
How to park with predictive course lines ..... 4-5
Operating tips ..... 4-6
Camera settings ..... 4-7
Intelligent Around View Monitor ..... 4-8
Operation ..... 4-11
Guide lines ..... 4-12
Difference between predictive and actual distances ..... 4-14
Camera Settings ..... 4-16
Intelligent Around-View Monitor settings ..... 4-17
Operating tips ..... 4-17
Moving Object Detection (where fitted) ..... 4-17
How to view MOD information ..... 4-18
Turning the MOD system on or off ..... 4-19
Vents ..... 4-19
Climate control system ..... 4-19
Automatic climate control ..... 4-20
Operating tips ..... 4-23
Air conditioner filter ..... 4-23
Servicing climate control ..... 4-23
Climate Control Timer ..... 4-24
How to set Climate Ctrl. Timer ..... 4-24
Operating tips for using Climate Ctrl. Timer ..... 4-25
Audio system (where fitted) ..... 4-26
Audio operation precautions ..... 4-26
Steering wheel switches for audio and hands-free telephone control ..... 4-32
Audio control buttons ..... 4-32
Phone control buttons ..... 4-33
FM AM radio with CD player (where fitted) ..... 4-34
Audio main operation ..... 4-35
Radio operation ..... 4-36
SETUP button ..... 4-37
Compact Disc (CD) operation ..... 4-39
AUX socket ..... 4-41
USB (Universal Serial Bus) Connection Port (where fitted) ..... 4-41
iPod® player operation (where fitted) ..... 4-42
Bluetooth® operation ..... 4-43
NissanConnect system (where fitted) ..... 4-48
Mobile phone integration (where fitted) ..... 4-48
Bluetooth® mobile phone feature ..... 4-48
Hands-free telephone control ..... 4-51
Steering wheel switches ..... 4-53

## 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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.**

**⚠ CAUTION**

**Do not use the system when the electric vehicle system is not engaged for extended periods of time to prevent battery discharge.**

## REARVIEW MONITOR (where fitted)

When the shift lever is moved into the R (Reverse) position, the monitor display shows view to the rear of the vehicle.

The system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The system will not detect small objects below the bumper and may not detect objects close to the bumper or on the ground.

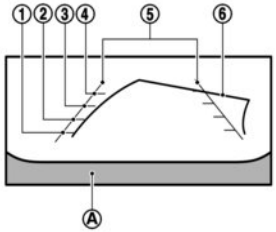
**⚠ WARNING**

**Failure to follow the warnings and instructions for proper use of the RearView Monitor could result in serious injury or death.**

- **The RearView Monitor is a convenience but it is not a substitute for proper reversing. Always turn your head and look out the windows, and check mirrors to be sure that it is safe to move before operating the vehicle. Always reverse 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 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 RearView 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 RearView monitor differ from actual distance because a wide-angle lens is used.**
- **Objects in the RearView Monitor will appear visually opposite than when viewed in the rear view and outside mirrors.**
- **Make sure that the tailgate is securely closed when reversing.**
- **Do not put anything on the rear view camera. The rear view camera is installed above the number 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.**

**⚠ CAUTION**

**There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.**




## HOW TO READ THE DISPLAYED LINES

Guiding lines which indicate the vehicle width and distances to objects with reference to the bumper line Ⓐ are displayed on the monitor.

**Distance guide lines ① to ④:**

Indicate distances from the rear 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: approx. 3 m (10 ft)

**Vehicle width guide lines ⑤:**

Indicates the vehicle width when reversing.

**Predictive course lines ⑥:**

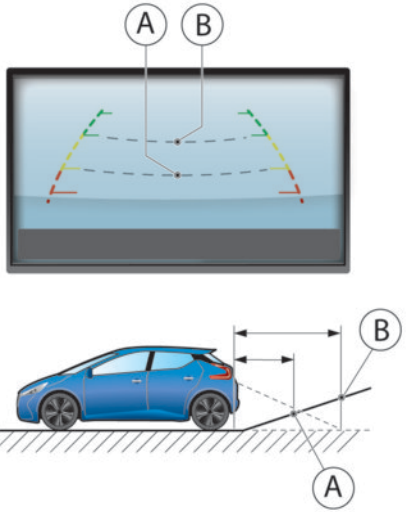
The dynamic predictive course lines will be displayed on the monitor when the steering wheel is turned. The course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight ahead position.

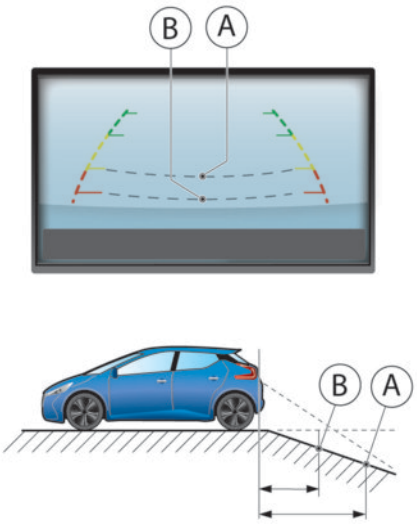
### ⚠ WARNING

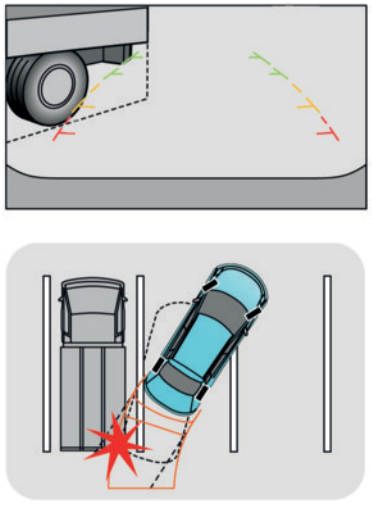
- **Use the displayed lines as a reference. The lines are highly affected by the number of occupants, vehicle position, road condition and road grade. Always check with your eyes directly around the vehicle while reversing.**
- **When reversing the vehicle up a hill, objects viewed in the monitor are further than they appear. When reversing the vehicle down a hill, objects viewed in the monitor are closer than they appear. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**

## DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES

The distance guide line and the vehicle width guide 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.



### Reversing on a steep uphill

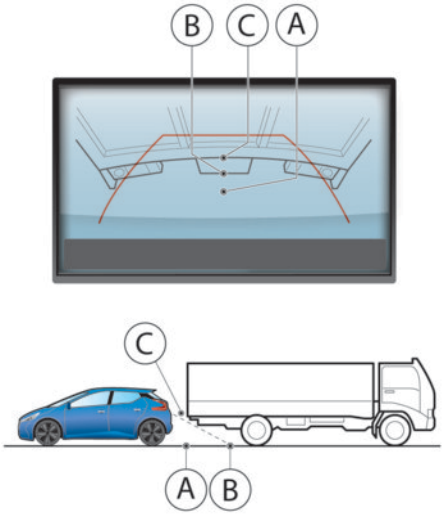
When reversing the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. For example, the display shows 1 m (3 ft) to the place Ⓐ, but the actual 1 m (3 ft) distance on the hill is the placeⒷ. Note that any object on the hill is viewed in the monitor further than it appears.

### Reversing on a steep downhill

When reversing the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown further than the actual distance. For example, the display shows 1 m (3 ft) to the place Ⓐ, but the actual 1 m (3 ft) distance on the hill is the place Ⓑ. Note that any object on the hill is viewed in the monitor closer than it appears.

### Reversing near a projecting object

The vehicle may seem to nearly clear the object in the display. However, the vehicle may hit the object if it projects over the actual reversing course.




### Reversing behind a projecting object

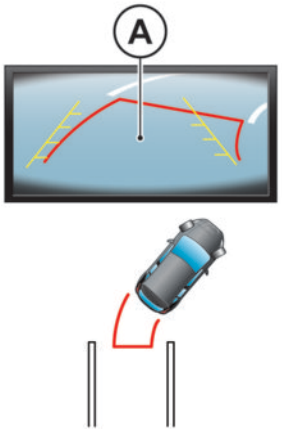
The position Ⓒ is shown further than the position Ⓑ in the display. However, the position Ⓒ is actually at the same distance as the position Ⓐ. The vehicle may hit the object when reversing to the position Ⓐ if the object projects over the actual reversing course.

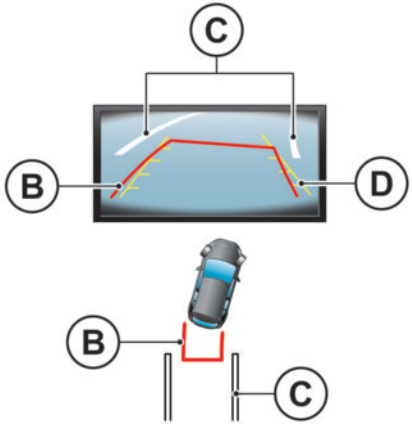
## HOW TO PARK WITH PREDICTIVE COURSE LINES

**⚠ WARNING**

- **Always check that it is safe to park your car before reversing. Always reverse slowly.**
- **Use the displayed lines as a reference. The lines are highly affected by the number of occupants, vehicle position, road condition and road grade.**
- **If the tyres are replaced with different sized tyres, the predictive course line may not be displayed correctly.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **If the battery is disconnected or becomes discharged, the predictive course lines may not be displayed correctly. If this occurs, perform the following procedures.**
  - **Turn the steering wheel from lock to lock while the READY to drive indicator light is ON.**
  - **Drive the vehicle on a straight road for more than 5 minutes.**
- **When the steering wheel is turned with the power switch in the ACC position, the predictive course lines may be displayed incorrectly.**
- **The distance guide line and the vehicle width guide 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.**
- **When reversing the vehicle up a hill, objects viewed in the monitor are further than they appear. When reversing the vehicle down a hill, objects viewed in the monitor are closer than they appear. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.**

The vehicle width and predictive course lines are wider than the actual width and course.




1. Visually check that the parking space is free of obstacles before parking your vehicle.
2. The RearView of the vehicle is displayed on screen as illustrated Ⓐ when the shift lever is moved to the R (Reverse) position.
3. Slowly reverse the vehicle, adjusting the steering wheel so that the predictive course lines Ⓑ remain within the restrictions of the parking space Ⓒ.
4. Manoeuvre the steering wheel to align the vehicle width guide lines Ⓓ parallel to the parking space Ⓒ while referring to the predictive course lines Ⓑ.
5. When the vehicle is parked, push the P (Park) button on the shift lever and apply the parking brake.

## OPERATING TIPS

- When the shift lever is shifted to R (Reverse), the monitor screen automatically changes to the rearview monitor mode. However, the radio can be heard.
- It may take some time until the rearview monitor or the normal screen is displayed after the shift lever has been shifted to R (Reverse) from another position or to another position from R (Reverse). Objects may be distorted momentarily until the rearview monitor screen is displayed completely.
- When the temperature is extremely high or low, the screen may not clearly display objects. This is not a malfunction.
- When strong light shines directly on to the camera, objects may not be displayed clearly. This is not a malfunction.
- Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper. This is not a malfunction.
- The screen may flicker under fluorescent light. This is not a malfunction.

- The colours of objects on the rearview monitor may differ somewhat from those of the actual object.
- Objects on the monitor may not be clear in a dark place or at night. This is not a malfunction.
- If dirt, rain or snow attaches to the camera, the rearview monitor may not clearly display objects. Clean the camera.
- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.
- Do not damage the camera as the monitor screen may be adversely affected.
- Do not use wax on the camera window. Wipe off any wax with a clean cloth dampened with mild detergent diluted with water.

## CAMERA SETTINGS

### Adjusting the screen




1. Push the <CAMERA> button.
2. Touch [Display Settings].
3. Touch the preferred setting item.
4. Adjust the item by touching the [+] or [-] key on the touch-screen display.

**Other settings:**

1. Push the <MENU> button.
2. Touch [Settings].
3. Touch [Camera].
4. Select the [Display Settings] sub-menu.
5. Touch the preferred setting item.
6. Adjust the item by touching the [+] or [-] key on the touch-screen display.

Available setting items:

- [Brightness]
- [Contrast]
- [Tint]
- [Colour]
- [Black level]

### Predicted course lines activation/deactivation

Display of the predictive course lines can be set to ON or OFF.

If the RearView Monitor is not in operation, change the setting according to the following procedure:

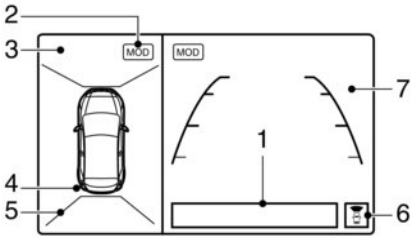
1. Push the <CAMERA> button.
2. Touch [Predictive Course Lines] to switch between ON and OFF.

**Other settings:**

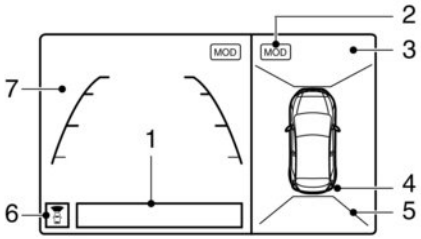
1. Push the <MENU> button.
2. Touch [Settings].
3. Touch [Camera].

4. Touch [Predictive Course Lines] to switch between ON and OFF.




**Right Hand Drive**




**Left Hand Drive**

① Message area

② [MOD] indicator*

③ Bird's-eye view or side view

④ Parking sensors

⑤ Bird's-eye view corner lines

⑥ Front or rear view indicator

⑦ Front or rear view

* For more information, see "Moving Object Detection (where fitted)" later in this section.

Designs and items displayed on the screen may vary depending on the country and model.

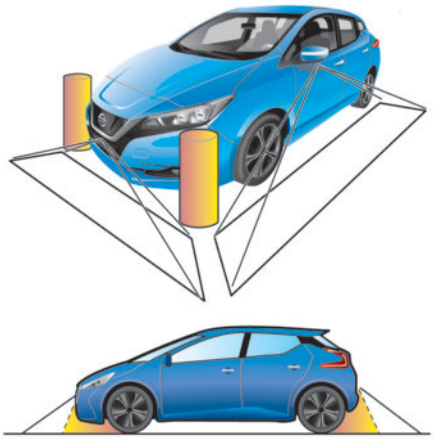
With the power in the **ON** position, push the **<CAMERA>** button or move the shift lever to the R (Reverse) position to operate the Intelligent Around-View Monitor. The monitor displays various views around the vehicle.

**NOTE:**
**At first operation, the corner lines are blinking yellow for about 3 seconds. This is not a malfunction but a reminder to be cautious.**

**Available views:**

- Bird's-eye View
  The surrounding view of the vehicle.
- Front-side View
  The view around and ahead of the front passenger's side wheel.
- Front view
  The view to the front of the vehicle.
- Rear view
  The view to the rear of the vehicle.
- Full screen rear view
  The view to the rear of the vehicle (which is a little wider than the standard rear view).

The system is designed as an aid to the driver in situations such as slot parking or parallel parking.



There are some areas where the system will not show objects. When in the front or the rear view display, an object below the bumper or on the ground may not be viewed. When in the bird's-eye view, a tall object near the seam of the camera viewing areas will not appear in the monitor.

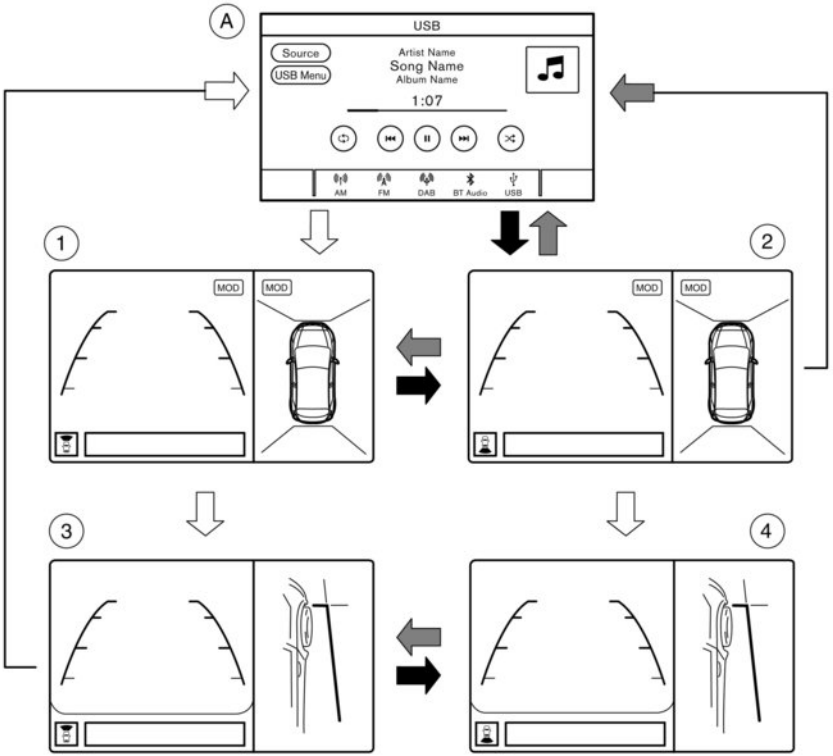
## ⚠ WARNING

- **The Intelligent Around-View Monitor is intended for day time use. Do not use the system in bad light conditions.**
- **The Intelligent Around-View Monitor is a convenience feature. It is not a substitute for proper vehicle operation because it has areas where objects cannot be viewed. The four corners of the vehicle in particular, are blind spots where objects do not appear in the bird's-eye, front or rear views. Always look out the windows and check to be sure that it is safe to move. The driver is always responsible for safety during parking and other manoeuvres.**
- **Do not use the Intelligent Around-View Monitor with the outside mirror in the stored position, and make sure that the back door is securely closed when operating the vehicle using the Intelligent Around-View Monitor.**
- **The distance between objects viewed on the Intelligent Around-View Monitor differs from the actual distance.**
- **The cameras are installed on the front grille, the outside mirrors and above the rear number plate. Do not put anything on the cameras.**

- When washing the vehicle with high-pressure water, be sure not to spray it around the cameras. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.
- Do not strike the cameras. They are precision instruments. Doing so could cause a malfunction or cause damage resulting in a fire or an electric shock.

**⚠ CAUTION**

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




**Example for Left-Hand Drive (LHD) models, for the Right-Hand Drive (RHD) models, the screen layout will be opposite.**

## OPERATION

The Intelligent Around-View Monitor display consists of the front, left, right, and rear screens. You can see a combination of different views on the screens as illustrated.

Ⓐ: Audio or navigation screen before the Intelligent Around-View Monitor is operated.

①: Front view and bird's-eye view

②: Rear view and bird's-eye view

③: Front view and front side view

④: Rear view and front side view

: Shift lever into R (Reverse)

: Shift lever out of R (Reverse)

: Push the **<CAMERA>** button

The Intelligent Around-View monitor starts if:

- R (Reverse) gear is selected.
- The **<CAMERA>** button is pushed.

- Front view
  Shows the view to the front of the vehicle.
- Rear view
  Shows the view to the rear of the vehicle.

### Starting with the shift lever operation

- When the shift lever is shifted into the R (Reverse) position Intelligent Around-View Monitor starts automatically and the rear view and bird's-eye view are displayed ②.

- When the shift lever is shifted out of the R (Reverse) position Ⓐ, the monitor changes from Intelligent Around-View Monitor screen to the audio or navigation screen.
- In R (Reverse) gear, the rear view and bird's-eye view ② are shown. The passenger's side view on the monitor changes to the front side view ④ when the **<CAMERA>** button is pushed.
  Push the **<CAMERA>** button again change to Rear View ⑤. When the shift lever is shifted out of the R (Reverse), the screen changes to before reversing screen. Push the **<CAMERA>** button from ⑤ to change back to rear view and bird's-eye view ②.

### Starting with the <CAMERA> button operation

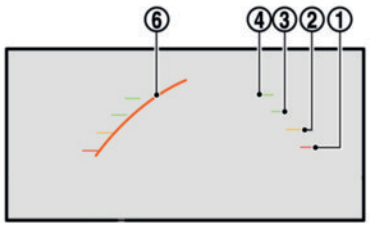
- When the **<CAMERA>** button is pushed, Intelligent Around-View Monitor operates and the front view and bird's-eye view are displayed ①.
- The front view and bird's-eye view are displayed ①. When the **<CAMERA>** button is pushed again ③, the view on the screen on the passenger's side changes to the front-side view. Pushing the **<CAMERA>** button again turns the Intelligent Around-View Monitor off.
- To change the driver's side screen between front view and rear view use the shift lever.
- When the shift lever is not in the R (Reverse) position and the vehicle speed increases above approximately 10 km/h (6 MPH), the monitor changes from Intelligent Around-View Monitor screen to the audio or navigation screen.

## GUIDE LINES

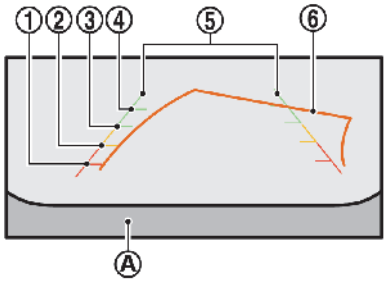
**⚠ WARNING**

- **The distance guide line and the vehicle width line should be used as a reference only when the vehicle is on a paved, level 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.**
- **Use the displayed lines and the bird's-eye view as a reference. The lines and the bird's-eye view are greatly affected by the number of occupants, fuel level, vehicle position, road condition and road grade.**
- **If the tyres are replaced with different sized tyres, the predictive course line and the bird's-eye view may be displayed incorrectly.**
- **When driving the vehicle up a hill, objects viewed in the monitor are further than they appear. When driving the vehicle down a hill, objects viewed in the monitor are closer than they appear. Use the mirrors or actually look to properly judge distances to other objects.**

The vehicle width and predictive course lines are wider than the actual width and course.




**Front view**




**Rear view**

## Guiding lines

Guiding lines, which indicate the vehicle width and distances to objects with reference to the vehicle body line Ⓐ, are displayed on the monitor.

**Distance guide lines:**

Indicate distances from the vehicle body.

- Red line ①: 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: approx. 3 m (10 ft)

**Vehicle width guide lines and static predictive course lines ⑤:**

Indicate the vehicle width when reversing.

**Dynamic predictive course lines ⑥:**

The dynamic predictive course lines will be displayed on the monitor when the steering wheel is turned. The course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the straight ahead position.

The front view will not be displayed when the vehicle speed is above approximately 10 km/h (6 MPH).

**⚠ WARNING**

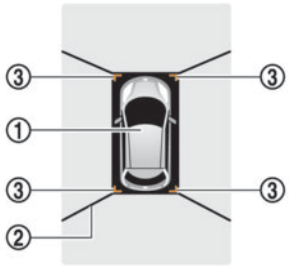
- **Objects in the monitor will appear visually opposite than when viewed in the rear view and outside mirrors.**
- **On a snow-covered or slippery road, there may be a difference between the predictive course line and the actual course line.**
- **The displayed lines on the rear view will appear slightly off to the right because the rear view camera is not installed in the rear centre of the vehicle.**

**NOTE:**
**When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the neutral position, both the right and left predictive course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, a line is displayed only on the opposite side of the turn.**

## Bird's-eye view

**⚠ WARNING**

- **Objects in the bird's-eye view will appear further than the actual distance because the bird's-eye view is a pseudo view that is processed by combining the views from the cameras on the outside mirrors, the front and the rear of the vehicle.**
- **Tall objects, such as a kerb or a vehicle, may be misaligned or not displayed at the seam of the views.**
- **Objects that are above the camera cannot be displayed.**
- **The view for the bird's-eye view may be misaligned when the camera position alters.**
- **A line on the ground may be misaligned and is not seen as being straight at the seam of the views. The misalignment will increase as the line proceeds away from the vehicle.**




The bird's-eye view shows the overhead view of the vehicle, which helps confirm the vehicle position and the predicted course to a parking space.

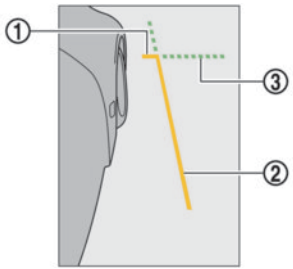
The vehicle icon ① shows the position of the vehicle.

**NOTE:**
**The size of the vehicle icon on the bird's-eye view may differ somewhat from the actual vehicle.**

At first operation, the blind spot corner lines ② on all four corners of the vehicle icon are blinking yellow for about 3 seconds. The four corners ③ of the vehicle are displayed in red if the parking sensors are turned off.

**NOTE:**

- **The areas that the cameras cannot cover are indicated in black.**
- **Blind spot corner lines ② blink (yellow) on all four corners of the vehicle icon as a reminder to be cautious. This is not a malfunction.**




**Front–side view, Left-Hand Drive (LHD) models***

## Front-side view

*: For the Right-Hand Drive (RHD) models, the screen layout will be shown opposite.

**Guiding lines:**

**⚠ CAUTION**

**The actual distance to objects may differ from the distance shown.**

Guiding lines that indicate the width and the front end of the vehicle are displayed on the monitor.

The front-of-vehicle line ① shows the front part of the vehicle.

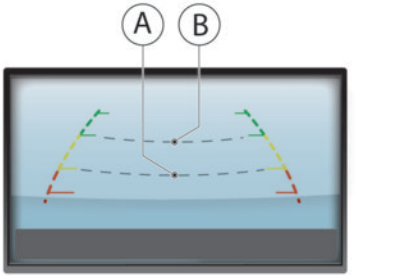
The side-of-vehicle line ② shows the vehicle width including the outside mirror.

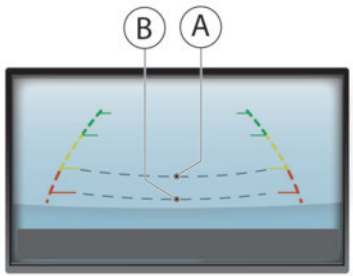
The extensions ③ of both the front ① and side ② lines are shown with a green dotted line.

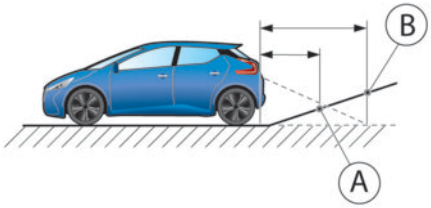
## DIFFERENCE BETWEEN PREDICTIVE AND ACTUAL DISTANCES

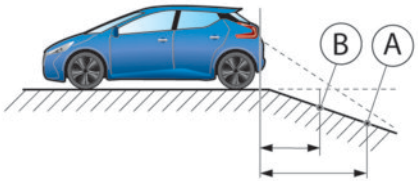
**⚠ WARNING**

**The distance guide line and the vehicle width guide line on the front and the rear view 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.**




### Moving near a projecting object

The dynamic predictive course lines Ⓐ may show that the vehicle is not touching the object. However, the vehicle may hit the object if it projects over the actual moving course.

**⚠ WARNING**

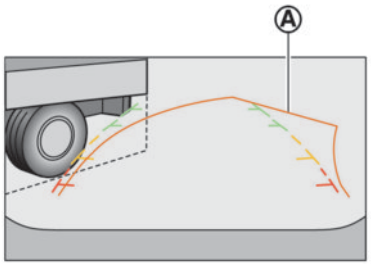
**The distance viewed on the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.**

### Moving to a steep uphill

When moving the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. For example, the display shows 1 m (3 ft) to the place Ⓐ, but the actual 1 m (3 ft) distance on the hill is the place Ⓑ. Note that any object on the hill is viewed in the monitor further than it appears.

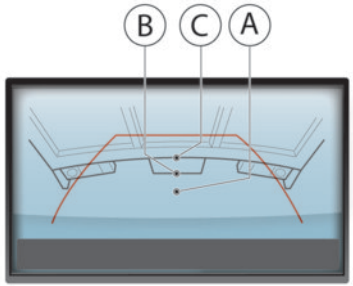
### Moving to a steep downhill

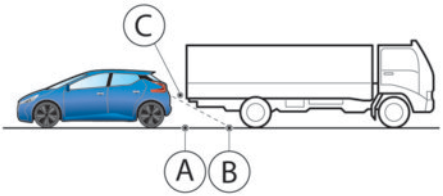
When moving the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown further than the actual distance. For example, the display shows 1 m (3 ft) to the place Ⓐ, but the actual 1 m (3 ft) distance on the hill is the place Ⓑ. Note that any object on the hill is viewed in the monitor closer than it appears.






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 moving course.




### Moving closer to a projecting object

The position Ⓒ is shown further 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 moving toward the position Ⓐ if the object projects over the actual moving course.

## CAMERA SETTINGS

### How to adjust Intelligent Around-View Monitor screen

1. Push the <CAMERA> button.
2. Touch the [Display Settings] key.
3. Touch the preferred setting item.
4. Adjust the item by touching the [+] or [−] key on the touch-screen display.

**Available setting items:**

- [Brightness]
- [Contrast]
- [Tint]
- [Colour]
- [Black level]

Do not adjust the settings while the vehicle is moving. Make sure the parking brake is firmly applied.

**Other settings:**

1. Push the <MENU> button.
2. Select the [Settings] menu.
3. Touch the [Camera] key.
4. Touch the [Display Settings] key.
5. Touch the preferred setting item.
6. Adjust the item by touching the [+] or [−] key on the touch-screen display.

## INTELLIGENT AROUND-VIEW MONITOR SETTINGS

To switch the Moving Object Detection between on or off, proceed as follows:

1) Select the [Settings] menu in the Vehicle Information Display using the steering wheel switches, see "Vehicle Information Display" in the "2. Instruments and controls" section.
2) Select the [Driving Aids] key.
3) Select the [Parking Aids] key.
4) Select the [Moving Objects Detection] key to switch between on or off. If a marker is shown the item is switched on.

### View malfunction

When the [ **!** ] icon is displayed on the screen, there will be abnormal conditions in the Intelligent Around-View Monitor. This will not hinder normal driving operation but the system should be inspected by a NISSAN dealer or qualified workshop.

When the [ **X** ] icon is displayed on the screen, the camera image may be receiving temporary electronic disturbances from surrounding devices. This will not hinder normal driving operation but the system should be inspected by a NISSAN dealer or qualified workshop if it occurs frequently.

## OPERATING TIPS

- When the view is switched, the display images on the screen may be displayed with some delay.
- When the temperature is extremely high or low, the screen may not display objects clearly. This is not a malfunction.
- When strong light shines directly on to the camera, objects may not be displayed clearly. This is not a malfunction.
- The screen may flicker under fluorescent or LED light sources. This is not a malfunction.
- The colours of objects on the Intelligent Around-View Monitor may differ somewhat from the actual colour of objects. This is not a malfunction.
- Objects on the monitor may not be clear and the colour of the object may differ in a dark environment. This is not a malfunction.
- There may be differences in sharpness between each camera view of the bird's-eye view.
- If dirt, rain or snow accumulates on the camera, the Intelligent Around-View Monitor may not display objects clearly. Clean the camera.
- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth that has been dampened with a diluted mild cleaning agent and then wipe with a dry cloth.
- Do not damage the camera because the monitor screen may be adversely affected.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth that has been dampened with a mild detergent diluted with water.

## MOVING OBJECT DETECTION (where fitted)

The Moving Object Detection (MOD) system can inform the driver of moving objects surrounding the vehicle when driving out of garages, manoeuvring into parking lots and other such instances. The MOD system detects moving objects by using image processing technology on the image shown on the display.

The MOD system operates in the following conditions when the camera view is displayed:

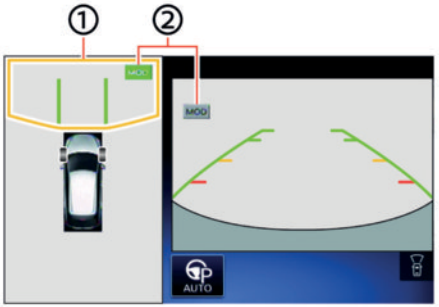
- When the shift lever is in the **P** (Park) or **N** (Neutral) position and the vehicle is stopped, the MOD system detects the moving objects in the bird's-eye view. The MOD system will not operate if the outside mirror is moving in or out or if either door is opened.
- When the shift lever is in the **D** (Drive) or **B** position and the vehicle speed is below approximately 8 km/h (5 MPH), the MOD system detects moving objects in the front view or front-wide view.
- When the shift lever is in the **R** (Reverse) position and the vehicle speed is below approximately 8 km/h (5 MPH), the MOD system detects moving objects in the rear view or rear-wide view. The MOD system will not operate if the tailgate is open.

**NOTE:**
**The MOD system does not detect moving objects in the front-side view. The MOD indicator is not displayed on the screen when in this view.**

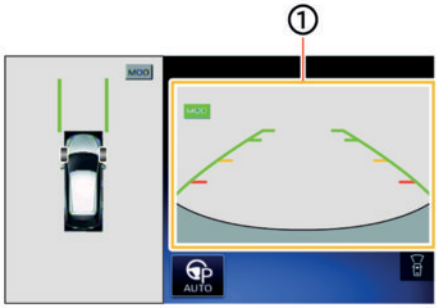
## ⚠ WARNING

- The MOD system is not a substitute for proper vehicle operation and is not designed to prevent contact with the objects surrounding the vehicle. When manoeuvring, always use the outside mirror and rear view mirror and turn and check the surrounding to ensure it is safe to manoeuvre.
- The MOD system does not detect stationary objects.
- Excessive noise (such as from the audio system or an open vehicle window) will interfere with the chime sound, and it may not be audible.
- The MOD system performance will be limited according to environmental conditions and surrounding objects such as:
  - When there is low contrast between the background and moving objects.
  - When there is a blinking source of light.
  - When strong light such as another vehicle's headlights or sunlight is present.
  - When the camera orientation is not in its usual position, such as when mirror is folded.
  - When there is dirt, water drops or snow on the camera lens.
  - When the position of the moving objects in the display does not change.
- The MOD system might detect something like flowing water droplets on the camera lens, or moving shadows, etc.
- The MOD system may not function properly depending on the speed, direction, distance or shape of the moving objects.
- If your vehicle sustains damage to the area where the camera is installed, leaving it misaligned or bent, the sensing zone may be altered and the MOD system may not detect objects properly.

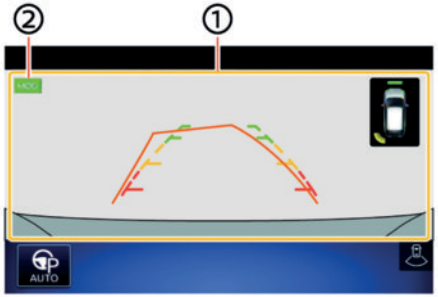
## HOW TO VIEW MOD INFORMATION




Bird's-eye/Front view




Bird's-eye/Rear view




Front-wide view/Rear-wide view

① Detection warning frame (yellow):

Displayed on each view depending on where the moving object is detected (a chime will sound once). While the MOD system continues to detect moving objects, the yellow frame continues to be displayed.

② MOD indicator:

A green MOD or blue MOD MOD indicator * is displayed in the view where the MOD system is operative. A gray MOD MOD indicator displayed in the view where the MOD system is not operative. When the MOD system is turned off, the MOD indicator will not be displayed.

*: Green for models with ProPILOT Park, Blue for Intelligent Around View Monitor (models without ProPILOT Park)

## TURNING THE MOD SYSTEM ON OR OFF

The MOD system can be turned on or off using the vehicle information display. See, ☞ "Vehicle Information Display" in the "2. Instruments and controls" section for additional details.

## VENTS

⊠ : This symbol indicates that the vents are closed.

: This symbol indicates that the vents are open.





Open or close, and adjust the air flow direction from the vents.

## CLIMATE CONTROL SYSTEM

### ⚠ WARNING

- **The air conditioner cooling function operates only when the READY to drive indicator light is ON.**
- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. 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.**

The climate control system (air conditioner and heater functions) can be operated when the READY to drive light is illuminated. However, while charging, the climate control system can be used when the power switch is in the ON position.

The fan, heater and air conditioning can be turned on manually or using the timer function.

These functions operate in the following conditions:

| Power switch position | LOCK/OFF | ACC | ON | READY to drive |
|---|---|---|---|---|
| Fan | — | — | Available | Available |
| Heater and air conditioner | — | — | Available*1 | Available |
| Timer (Climate Ctrl. Timer) | Available | Available | — | — |

*1: The climate control system will only start when charging is being performed. After charging is complete, it will continue to operate if the charging device is connected.

**NOTE:**

- **A series of operation sounds may be heard immediately after climate control ON/OFF operation. This is not a malfunction.**
- **Compressor and motor fan may suddenly start to operate during charging operation. This is not a malfunction.**
- **Condensation forms inside the air conditioning unit when the air conditioner is running, and is safely discharged underneath your vehicle. Traces of water on the ground are therefore normal. Water may drop underneath the vehicle when climate control is operating.**
- **Odours from inside and outside the vehicle can build up in the air conditioner unit. Odour 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 odours inside the vehicle.**
- **If the vehicle's READY to drive indicator light is illuminated and the charging device is connected to the vehicle, the power switch will change to the ON position and the climate control system will change the air circulation mode. If you want to operate climate control again, place the power switch in the OFF position and then place it in the ON position again after confirming that the vehicle has started charging.**
- **When the power switch is in the ON position, if the power supply from the charging device is interrupted due to an electrical outage, etc., the system will operate in the following ways:**

– **If it occurs while charging is being performed: If the power supply is restored within approximately 5 minutes, the climate control system will restart. However, if more than 5 minutes have elapsed, the climate control system will not restart.**

– **If it occurs after charging has finished: The climate control system will stop.**

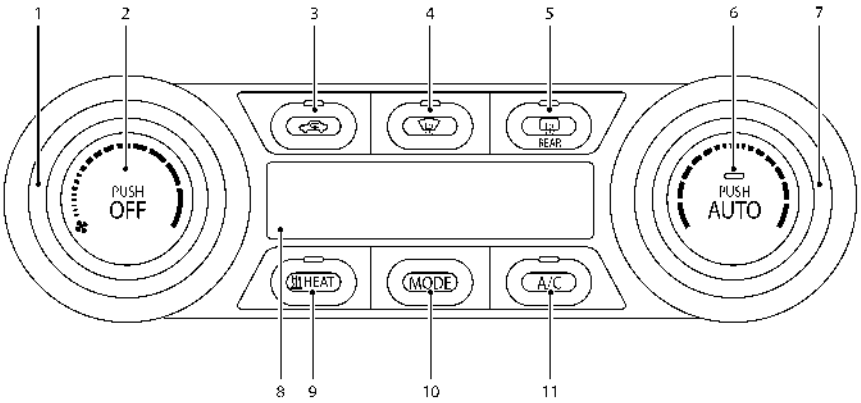
## AUTOMATIC CLIMATE CONTROL

1. Fan speed control dial
2. Air conditioner control button (OFF) (Switch air conditioning system on or off completely)
3. Air recirculation button
4. Front defogger button
5. Rear window defogger button (See also ☞ "Rear window and outside mirror defogger switch (where fitted)" in the "2. Instruments and controls" section)
6. Automatic climate control button (AUTO)
7. Temperature control knob
8. Air conditioner display
9. Manual air conditioner hot air button (HEAT)
10. Manual air flow control button (MODE)
11. Manual air conditioner cold air button (A/C)

### Automatic operation (AUTO)

The AUTO mode may be used year-round as the system automatically controls constant temperature, air flow distribution, intake air and fan speed.

1. Push the **<AUTO>** button. The AUTO indicator will be illuminated.
2. Turn the temperature control knob to set the desired temperature.




**Left-Hand Drive (LHD) model**

When any of the following functions are operated, the AUTO indicator will turn off.

- The HEAT or A/C button is pushed.
- The fan speed control or ventilator air flow control is operated.
- The intake air control is switched.

However, the functions that were not operated continue operating in AUTO mode.

**NOTE:**

**– If the fan speed control button, MODE button, or intake air control button is operated while AUTO is in use, all the other buttons operate in AUTO mode.**

**– While the AUTO indicator is illuminated, electric power consumption of the air conditioner can be economized compared to the amount consumed while the AUTO indicator is not illuminated.**

The HEAT indicator light and the A/C indicator light illuminate according to the operation status of the climate control system.

| Operation mode | A/C indicator | HEAT indicator |
|---|---|---|
| Cooling | ON | OFF |
| Heating (A/C off) | OFF | ON |

## Manual operation

The manual mode can be used to control the heater and air conditioner to your desired settings.

The HEAT indicator light and the A/C indicator light illuminate according to the operation status of the climate control system.

| Operation mode | A/C indicator | HEAT indicator |
|---|---|---|
| Cooling | ON | OFF |
| Dehumidified heating | ON | ON |
| Heating (A/C off) | OFF | ON |
| Ventilation | OFF | OFF |

**Cooling:**

1. Push the **<A/C>** button to illuminate the A/C indicator light.
2. Push the **<HEAT>** button to turn off the HEAT indicator light.

**NOTE:**

- **Do not set the temperature higher than the outside air temperature. Doing so may prevent the temperature from being controlled properly.**
- **A visible mist may be seen coming from the vents in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.**

**Dehumidified heating:**

1. Push the **<A/C>** button to illuminate the A/C indicator light.
2. Push the **<HEAT>** button to illuminate the HEAT indicator light.

**NOTE:**

**Electric power consumption of climate control increases while the A/C and HEAT button indicator lights simultaneously illuminate. As a result, the driving range may be decreased.**

**Heating (A/C off):**

1. Push the **<HEAT>** button to illuminate the HEAT indicator light.
2. Push the **<A/C>** button to turn off the A/C indicator light.

**NOTE:**

- **Do not set the temperature lower than the outside air temperature. Doing so may prevent the temperature from being controlled properly.**
- **If the windows fog up, use dehumidified heating instead of the A/C off heating.**

**Ventilation mode:**

Push the **<HEAT>** button and **<A/C>** button if the indicator lights are on so that both indicator lights turn off.

**NOTE:**

- **The ventilation mode requires a lower power consumption, so cruising distance will increase.**
- **In ventilation mode, temperature is not indicated on the navigation monitor or on the air conditioner display.**

**Dehumidified defrosting/defogging:**

Push the front defogger button. (The indicator light will illuminate)

**NOTE:**

- **To remove moisture or fog on the front window quickly, set the temperature and the fan speed to the maximum position.**
- **After the windscreen is cleared push the front defogger button again. (The indicator light will turn off.)**
- **When the front defogger button is pushed, the air conditioner will automatically turn on to defog the windscreen. The outside air circulation mode will be selected to improve the defogging performance.**

**Fan speed control:**

Push the fan speed control button to control the fan speed manually.

Push the **<AUTO>** button to change the fan speed to the automatic mode.

**Air flow control:**

Push the **<MODE>** button to change the air flow mode.

- Air flows from the centre and side vents.
- Air flows from the centre and side vents and foot outlets.
- Air flows mainly from the foot outlets.
- Air flows from the defogger outlets and foot outlets.
- Air flows mainly from the defogger outlets.

**Temperature control:**

Turn the temperature control knob to set the desired temperature.

**Air recirculation:**

Push the air recirculation button to change the air circulation mode. When the indicator light illuminates, the flowing air is recirculated inside the vehicle.

**Outside air circulation:**

Push the air recirculation button to change the air circulation mode. When the indicator light is off, the flowing air is drawn from outside the vehicle.

**Automatic air intake control:**

To set the automatic control mode, push and hold the (intake air control) button. The indicator light will blink twice and the inside/outside circulation will then be controlled automatically. When in automatic mode, the indictor light will come on when inside air recirculation is active.

## Turn system off.

To turn off the climate control, push the air conditioner control button. Push the button again to turn the system on. The same operating mode (Heater or A/C) that was active when the system is turned off is active when system is turned back on.

## OPERATING TIPS

- The automatic climate control system is equipped with sensors. The sensors help to maintain a constant temperature. Do not put anything on or around these sensors.
- Using the AUTO mode will help reduce the power consumption of the climate control.
- When the AUTO switch is pushed, the AUTO indicator illuminates. The HEAT button indicator or the A/C button indicator illuminates according to the operation of the climate control system.
- If any of the MODE, A/C, HEAT, fan speed control , front defogger , intake air control buttons are pushed when the AUTO indicator illuminates, the AUTO indicator will be turned off.
- Power consumption of the climate control system varies depending on the outside temperature and the temperature set for the climate control system. Power consumption increases if the interior temperature is cooled down too much in summer or if it is warmed up too much in winter. This will result in a reduced driving range.
- If the charger is connected to the vehicle when it is in the ready to drive mode and the air conditioner or heater is on, the power switch automatically changes to the ON position. The climate control system automatically turns off the heater or air conditioner and switches to the ventilation mode. Place the power switch in the off position to begin charging. Turn on the desired climate control function.
- For normal charge, the climate control system is operative when charging operation is complete. For quick charge, however, the climate control system stops operating when charging operation stops.
- The climate control timer may fog up windows depending on the outside temperature.
- When turning on the seat heater switch prior to operating the climate control timer, the seat heater also will turn on. The steering wheel heater will turn on automatically when the outside temperature is low.

## AIR CONDITIONER FILTER

The climate control system is equipped with an air conditioner filter which collects dirt, pollen, dust, etc. To make sure the air conditioner, heats, defogs, and ventilates efficiently, replace the filter regularly. To replace the filter, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the climate control system.**

## SERVICING CLIMATE CONTROL

The climate control system in the NISSAN vehicle is charged with a refrigerant designed with the environment in mind. **This refrigerant will not harm the earth's ozone layer.** Special charging equipment and lubricant are required when servicing the NISSAN climate control system. Using improper refrigerants or lubricants will cause severe damage to the climate control system. (See "Recommended fluids/lubricants and capacities" in the "9. Technical information" section for climate control system refrigerant and lubricant recommendations.)

A knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer will be able to service the environmentally friendly climate control system.

**⚠ WARNING**

**The system contains refrigerant under high pressure. To avoid personal injury, any climate control service should be done only by an experienced technician with the proper equipment.**

## CLIMATE CONTROL TIMER

This function pre-heats or pre-cools the passenger compartment of the vehicle to the temperature before driving. This helps reduce power consumption from the Li-ion battery.

The Climate Ctrl. Timer operates the air conditioner using power from the charger or the Li-ion battery. While the charging connector is connected to the vehicle, electric power from the Li-ion battery is not used.

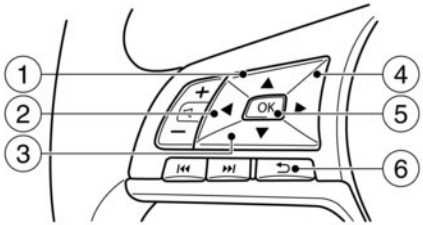
The Climate Ctrl. Timer function allows two timer settings.

Once the Climate Ctrl. Timer is set, it will complete air conditioning by the time that is set. It is not necessary to set the Climate Ctrl. Timer everyday.

**⚠ WARNING**

**Even if the Climate Ctrl. Timer is set, the temperature in the passenger compartment may become high or low if the system automatically stops. Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. 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. Also on cold days, temperature in a vehicle could become low enough to cause severe or possible fatal injuries to people or animals.**

### HOW TO SET CLIMATE CTRL. TIMER




1 ▲ button
2 ◀ button
3 ▼ button
4 ▶ button
5 <OK> button
6 ⮌ (Back) button

1. Push the ◀ or ▶ button to select [Settings] on the Vehicle Information Display.
2. Push the ▲ or ▼ button to select [EV Settings] and then push the <OK> switch ⑤.

3. Push the ▲ or ▼ button to select [Climate Ctrl. Timer1] or [Climate Ctrl. Timer2] and then push the <OK> switch.
4. Push the ▲ or ▼ button to select [Timer] and then push the <OK> switch to activate the setting. The indicator light will turn on when the timer setting is turned on
5. Push the ▲ or ▼ button to select [Departure time] and then push the <OK> switch.
6. Push the ▲ or ▼ button to set the hour and then push the <OK> switch.
7. Push the ▲ or ▼ button to set the minutes and then push the <OK> switch. The setting can be changed with an increment step of 10 minutes.
8. Push the ▲ or ▼ button to select [Climate Temperature] and then push the <OK> switch.
9. Push the ▲ or ▼ button to set Climate Temperature and then push the <OK> switch.
10. For models with navigation system: Push the ▲ or ▼ button to select [Days] and then push the <OK> switch. The current day of the week is displayed underlined.
    Push the ▲ or ▼ button to select the days of the week you wish to activate the Climate Control system and then push the <OK> switch. The indicator light of the selected button will turn on.
11. For models with navigation system: After setting the day of the week, push the Back switch and return to the previous screen. The set day of the week is lit in white.
12. After the setting is complete, place the power switch in the OFF position, and connect the charge connector to the vehicle.

**NOTE:**

- **The Climate Ctrl Timer does not activate if the charge connector is not connected to the vehicle. However, when [Battery Operation OK] is activated and the charging connector is not connected to the vehicle, the Climate Ctrl Timer will activate for 15 minutes.**
- **If ambient temperature is excessively high or low, the interior temperature may not reach the set temperature within the 15 minutes.**
- **Turn [Battery Operation OK] OFF when it is not necessary to operate air conditioning timer in order to prevent Li-ion battery from discharging.**

## OPERATING TIPS FOR USING CLIMATE CTRL. TIMER

- The Climate Ctrl. Timer will only start when the power switch is in the **LOCK/OFF** or **ACC** position.
- To turn off the Climate Ctrl. Timer function, turn off the [Climate Ctrl. Timer1] and [Climate Ctrl. Timer2] setting. The start and stop time settings will not be deleted even if the Climate Ctrl. Timer function is turned off.
- While the Climate Ctrl. Timer is operating, the Climate Ctrl. Timer indicator and the charging status indicator lights flash. If the Climate Ctrl. Timer is set to activate, the Climate Ctrl. Timer indicator illuminates.
- If the Climate Ctrl. Timer starts operating while the vehicle is being charged, the time required for charging will be longer.
- Operating the Climate Ctrl. Timer in an environment where the temperature is low may decrease the rate of battery charge.
- Timer setting can also be changed while Climate Ctrl. Timer is operated. When the power position is switched to OFF, the air conditioner starts or enters waiting mode depending on the new timer settings.
- When the difference in temperature between the air conditioner setting temperature and the temperature outside the vehicle is large, the temperature inside the vehicle may not be maintained at the setting temperature.

- The temperature in the passenger compartment may not be comfortable if entering the vehicle too soon before or too long after the scheduled time of departure.
- Air conditioning is limited to the capacity of the electric power when the charge connector is connected. Therefore, the temperature may not reach the set temperature due to limitations in air conditioning performance, if ambient temperature is excessively high or low.
- The Climate Ctrl. Timer operates the climate control function so that a comfortable temperature is provided in the passenger compartment at the scheduled time of departure. The climate control is set to stop at the scheduled time of departure.
- Depending on the facilities of charging station, there may be time when it is not available for charging. Confirm the availability of the charging facility before setting the Climate Ctrl. Timer. Besides, be sure that the power switch of the charger is turned on when setting the Climate Ctrl. Timer.
- When the power switch is turned OFF after changing the setting, the new setting will be applied.

# AUDIO SYSTEM (where fitted)

## AUDIO OPERATION PRECAUTIONS

**⚠ WARNING**

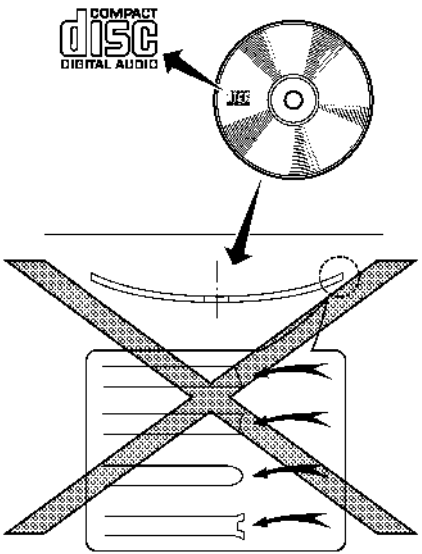
**Do not adjust the audio system while driving so that full attention may be given to vehicle operation.**

### Radio

- Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.
- Using a mobile phone in or near the vehicle may influence radio reception quality.

### Compact Disc (CD) player

- During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD from CD player and dehumidify or ventilate the player completely.
- The player may skip while driving on rough roads.
- The CD player sometimes may not function when the passenger compartment temperature is extremely high. Lower the temperature before use.
- Do not expose the CD to direct sunlight.
- CDs that are of poor quality, or are dirty, scratched, covered with fingerprints, or that have pin holes may not work properly.
- The following CDs may not work properly.
  - Copy control compact discs (CCCD)
  - Recordable compact discs (CD-R)
  - Rewritable compact discs (CD-RW)



- Do not use the following CDs as they may cause the CD player to malfunction.
  - CDs that are not round
  - CDs with a paper label
  - CDs that are warped, scratched or have unusual edges.
- This audio system can only play prerecorded CDs. It has no capabilities to record or burn CDs.
- If the CD cannot be played, a notification messages will be displayed.
  Error CD:
  - Confirm that the CD is inserted correctly (the label side is facing up, etc.).
  - Confirm that the CD is not bent or warped and it is free of scratches.

Eject CD:

This is a malfunction due to the temperature inside the player is too high. Remove the CD by pushing the < ⏏ > (Eject) button, and after a short time reinsert the CD. The CD can be played when the temperature of the player returns to normal.

Unplayable:

Audio files except for the MP3/WMA formats cannot be played back by this audio system.

## USB (Universal Serial Bus) connection port

**⚠ WARNING**

**Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.**

**⚠ CAUTION**

- **Do not force the USB device into the USB port. Inserting the USB device tilted or upside-down into the port may damage the port.**
- **Make sure that the USB device is connected correctly into the USB port. Some USB devices come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the device.**
- **Do not grab the USB port cover (where fitted) when pulling the USB device out of the port. This could damage the port and the cover.**
- **Do not leave the USB cable in a place where it can be pulled unintentionally. Pulling the cable may damage the port.**

The vehicle is not equipped with a USB device. USB devices should be purchased separately as necessary.

This system cannot be used to format USB devices. To format a USB device, use a personal computer.

In some states/areas, the USB device for the front seats plays only sound without images for regulatory reasons, even when the vehicle is parked.

This system supports various USB connection port devices, USB hard drives and iPod players. Some USB devices may not be supported by this system.

- Partitioned USB devices may not play correctly.
- Some characters used in other languages (Chinese, Japanese, etc.) may not appear properly in the display. Using English language characters with a USB device is recommended.

**General notes for USB use:**

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

**Notes for iPod use:**

iPod is a trademark of Apple Inc., registered in the U.S. and other countries.

- Improperly plugging in the iPod may cause a checkmark to be displayed on and off (flickering). Always make sure that the iPod is connected properly.
- An iPod nano (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod.
- Audiobooks may not play in the same order as they appear on an iPod.

- Large video files cause slow responses in an iPod. The vehicle centre display may momentarily black out, but will soon recover.
- If an iPod automatically selects large video files while in the shuffle mode, the vehicle centre display may momentarily black out, but will soon recover.

## Bluetooth® Audio player

- Some Bluetooth® audio devices may not be used with this system. For detailed information about Bluetooth® audio devices that are available for use with this system, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.
- Before using a Bluetooth® audio system, the initial registration process for the audio device is necessary.
- Operation of the Bluetooth® audio system may vary depending on the audio device that is connected. Confirm the operation procedure before use.
- The playback of Bluetooth® audio will be paused under the following conditions. The playback will be resumed after the following conditions are completed.
  - while using a hands-free phone
  - while checking a connection with a mobile phone
- The in-vehicle antenna for Bluetooth® communication is built in the system. Do not place the Bluetooth® audio device in an area surrounded by metal, far away from the system or in a narrow space where the device closely contacts the body or the seat. Otherwise, sound degradation or connection interference may occur.
- While a Bluetooth® audio device is connected through the Bluetooth® wireless connection, the battery power of the device may discharge quicker than usual.
- This system is compatible with the Bluetooth® AV profile (A2DP and AVRCP).

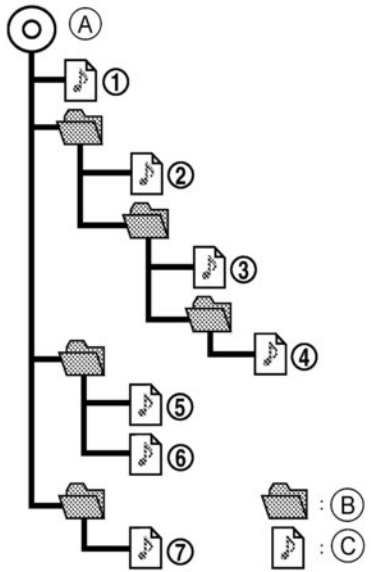
Bluetooth® is a trademark owned by Bluetooth SIG, Inc., and licensed to Daewoo IS Corp.

## Compact Disc (CD)/USB memory with MP3 or WMA

**Explanation of terms:**

- MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near "CD quality" sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD can reduce the file size by approximately 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn't hear.
- WMA — Windows Media Audio (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.
- Bit rate — Bit rate denotes the number of bits per second used by a digital music files. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.
- Sampling frequency — The rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- Multisession — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- ID3/WMA Tag — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, album title, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Album/Artist/Song title line on the display.

* Windows® and Windows Media® are registered trademarks and trademarks in the United States of America and other countries of Microsoft Corporation of the USA.




Ⓐ Root folder

Ⓑ Folder

Ⓒ MP3/WMA

**Playback order:**

The music playback order of the CD with MP3 or WMA is as illustrated.

- The names of folders not containing MP3 or WMA files are not shown in the display.
- If there is a file in the top level of the disc, Root Folder is displayed.
- The playback order is the order in which the files were written by the writing software. Therefore, the files might not play in the desired order.

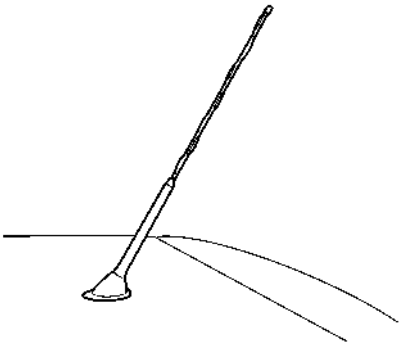
**Specification chart:**

| | | | |
|---|---|---|---|
| Supported media | | | CD, CD-R, CD-RW, USB 2.0 |
| Supported file systems | | | ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet ISO9660 Level 3 (packet writing) is not supported. Files saved using the Live File System component (on a Windows Vista – based computer) are not supported. |
| Supported versions*1 | MP3 | Version | MPEG1, MPEG2, MPEG2.5 |
| | | Sampling frequency | 8 kHz - 48 kHz |
| | | Bit rate | 8 kbps - 320 kbps, VBR*4 |
| | WMA*3 | Version | WMA7, WMA8, WMA9 |
| | | Sampling frequency | 32 kHz - 48 kHz |
| | | Bit rate | 32 kbps - 192 kbps, VBR*4 |
| Tag information (Song title and Artist name) | | | ID3 tag VER1.0, VER1.1, VER2.2, VER2.3, VER2.4 (MP3 only) |
| | | | WMA tag (WMA only) |
| Folder levels | | | Folder levels: 8, Folders: 255 (including root folder), Files: 512 (Max. 255 files for one folder) |
| Displayable character codes*2 | | | 01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian) |

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.
*2 Available codes depend on what kind of media, versions and information are going to be displayed.
*3 Protected WMA files (DRM) cannot be played.
*4 When VBR files are played, the playback time may not be displayed correctly. WMA7 and WMA8 are not applied to VBR.

**Troubleshooting guide:**

| Symptom | Cause and Countermeasure |
|---|---|
| Cannot play | Check if the disc was inserted correctly. |
| | Check if the disc is scratched or dirty. |
| | Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player. |
| | If there is a temperature increase error, the CD player will play correctly after it returns to the normal temperature. |
| | If there is a mixture of music CD files (CD-DA data), MP3/WMA files on a CD, only the music CD files (CD-DA data) will be played. |
| | Files with extensions other than ".MP3", ".WMA", ".mp3", or ".wma" cannot be played. In addition, the character codes and number of characters for folder names and file names should be in compliance with the specifications. |
| | Check if the disc or the file is generated in an irregular format. This may occur depending on the variation or the setting of MP3/WMA writing applications or other text editing applications. |
| | Check if the finalisation process, such as session close and disc close, is done for the disc. |
| | Check if the disc is protected by copyright. |
| Poor sound quality | Check if the disc is scratched or dirty. |
| It takes a relatively long time before the music starts playing. | If there are many folder or file levels on the MP3/WMA disc, or if it is a multisession disc, some time may be required before the music starts playing. |
| Music cuts off or skips | The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed. |
| Skipping with high bit rate files | Skipping may occur with large quantities of data, such as for high bit rate data. |
| Move immediately to the next song when playing. | When a non-MP3/WMA file has been given an extension of ".MP3", ".WMA", ".mp3", ".wma", or when play is prohibited by copyright protection, there will be approximately 5 seconds of no sound and then the player will skip to the next song. |
| The songs do not play back in the desired order. | The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order. |



## Antenna

**Removing antenna:**

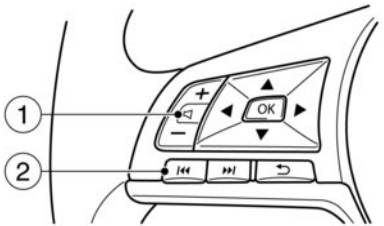
To remove the antenna, hold the lower part of the antenna and turn it anticlockwise. Always properly tighten the antenna rod during installation. Otherwise, the antenna rod may break during vehicle operation.

**⚠ CAUTION**

**To avoid damaging or deforming the antenna, make sure to remove the antenna under the following conditions:**

- **Before the vehicle enters an automatic car wash.**
- **Before the vehicle enters a garage with a low ceiling**
- **The vehicle is covered with a car cover.**

## STEERING WHEEL SWITCHES FOR AUDIO AND HANDS-FREE TELEPHONE CONTROL




① Volume buttons

② Tuning switches

## AUDIO CONTROL BUTTONS

### Play Control (Tuning switch)

Push the tuning switch left or right to select a channel, track, CD or folder when they are listed on the display.

**RADIO:**

- Pushing Left/Right shorter Next or previous preset channel
- Pushing Left/Right longer Next or previous station/channel

**CD with MP3/WMA (where fitted), iPod (where fitted), USB device (where fitted), or Bluetooth® Audio (where fitted):**

- Pushing Left/Right shorter
  Next track or the beginning of the current track (the previous track if the button is pushed immediately after the current track starts playing)
- Pushing Left/Right longer
  Folder change.

**CD (where fitted):**

- Pushing Left/Right shorter
  Next track or the beginning of the current track (the previous track if the button is pushed immediately after the current track starts playing)
- Pushing Left/Right longer
  Forward or rewind

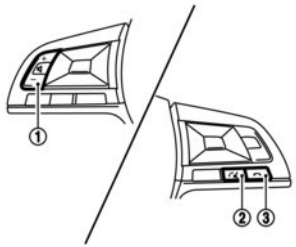
### Volume control switches

Push the volume control buttons to increase or decrease the volume.

### Menu control

If the main audio screen is selected in the Vehicle Information Display the audio source can be selected using the steering wheel mounted controls. For additional information, see "Vehicle Information Display" in the "2. Instruments and controls" section.

## PHONE CONTROL BUTTONS




① Volume up/down buttons

② Phone button

③ Phone end/reject button

The hands-free mode can be operated using the steering wheel switches.

### Volume up button

Press the volume up button to increase the volume of the speakers.

### Volume down button

Press the volume down button to decrease the volume of the speakers.

### Phone button

The phone button allows you to:

- Accept an incoming call by pressing once.
- Start an active voice session with a device by pressing for more than 2 seconds. (where fitted)

### Phone END button

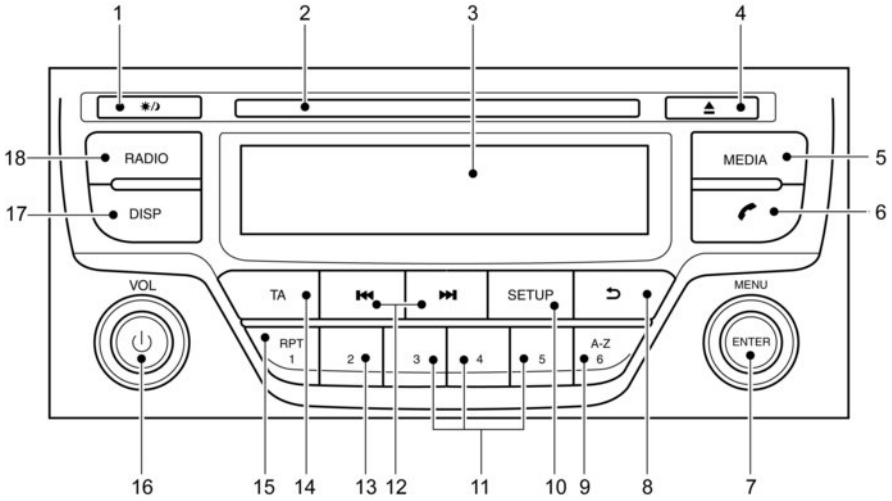
- Reject an incoming call by pressing during an incoming call.
- End an active call by pressing once.

**⚠ WARNING**

**Park the vehicle in a safe location, and apply the parking brake before using a device's voice functionality.**

**The button should only be used for activation and use of the hands-free functions on your phone, you should not touch/pick up/hold the phone whilst driving.**

## FM AM RADIO WITH CD PLAYER (where fitted)




1. ☀/☽ (Day/Night) button
   (Display brightness (Day/Night mode) button)
   Turn the MENU dial to set the display brightness.

   The illumination brightness level is linked to the headlight switch. When the headlights are switched ON the brightness is dimmed automatically. Press the button to toggle illumination brightness levels between daytime setting and night-time setting independent of headlamp status.
2. CD slot
3. Display
4. CD eject button
5. <MEDIA> button
   Switch between the audio sources (CD, USB, AUX, BT Audio) (if connected)
6. Depending on model:
   — Telephone button
   — MUTE button
7. Radio mode: TUNE dial
   Audio unit mode: MENU dial
   Confirmation (ENTER) button
8. Back button
9. Radio mode: Preset button
   USB/MP3 CD or Phone mode: Quick search button
10. <SETUP> button
11. Preset buttons
12. Fast Forward (Cue)/Forward Track and Rewind/Previous Track buttons
13. Radio mode: Preset button
    Depending on model:
    CD/iPod/USB/Bluetooth audio mode: MIX button
14. Depending on model:
    — Traffic Announcement (TA) button
    — <MIX> button
15. Radio mode: Preset button
    CD/iPod/USB/Bluetooth audio mode: Repeat (RPT) button
16. Power ON·OFF button/Volume control (VOL) knob

17. <DISPLAY> button
    Provides on screen information when available (music tags, RDS, etc.)

18. <RADIO> button

## AUDIO MAIN OPERATION

The audio unit operates when the power is in the **ACC**, **ON** or **READY** to drive position.

### Anti-theft system

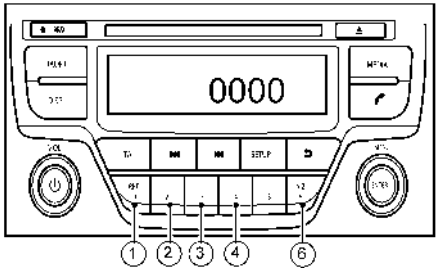
Use of a 4-digit radio PIN (Personal Identification Number) code, known only to the vehicle owner, effectively reduces the possibility of the audio unit being stolen. Without the PIN code the audio unit cannot be activated.

If force is used to try and remove the audio unit, the Anti-theft system activates and the audio unit is locked. The only way to unlock the audio unit is to enter the radio code number shown on an identification card supplied with the vehicle documentation.

**NOTE:**

- **The 4 digit radio code is shown on a card that you received with your vehicle documentation.**
- **Record the 4 digit radio code on the "Security information" page at the end of this manual. Remove the security page and keep it in a safe location, not in the vehicle.**
- **Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer, if you do lose the 4 digit radio code of the audio unit.**

### Unlocking the unit




If the battery supply to the vehicle is interrupted, the audio unit will lock.

When the power is restored and the unit is switched on, the display will show the [Radio Code:] and it will be unlocked when the code has been entered correctly.

**Unlocking procedure:**

**Read this section very carefully. It is important that the instructions are followed precisely.**

To unlock the audio unit, proceed as follows:

1. Turn the power switch to the **ACC** or **ON** position.
2. [Radio Code:] is displayed along with four numerical zero digits.
3. Press preset button ① the number of times corresponding with the first digit of the radio code.

   For example, if the radio code is 5169: for the first digit, 5, press the preset button ① five times.
4. The second, third, and fourth digits of the radio code must be entered, in the same way, only now using preset buttons ②, ③, and ④.

   For example, press ② once, ③six times, and ④ nine times.
5. Press with a long press preset button <⑥> to confirm the code. If you entered the code correctly the unit will switch on.
6. If the code is entered incorrectly a notification message [INCORRECT PIN] and the number of attempts left [REMAINING TRIES: XX] will be shown.

   After reading the message, press the **<ENTER>** button to return to the entry screen and enter the correct radio code.

   - If the wrong code is entered after the third attempt, the audio unit will lock for 60 minutes. The display will show a count down timer from 60 to 0 (minutes). After 60 minutes enter the correct radio code.
   - If the wrong code is entered after eight sets of three entries, the audio unit will lock permanently. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for further details.

## Power ON/OFF button

Press the ⏻ button to switch on the audio unit. If the audio unit was switched off using the power switch, it can also be switched on with the power switch. The source that was playing immediately before the unit was switched off will resume playing and the volume will be set to the previous volume level.

The audio unit can be switched off by pressing ⏻, or by placing the power in the **OFF** or **LOCK** position.

## Volume (VOL) level control

Turn the **<VOL>** dial clockwise or anticlockwise to adjust the volume level.

The audio unit is equipped with a speed control volume function, this means that the audio system automatically adjusts the volume level in relation to vehicle speed.

### MUTE button (where fitted)

Press the mute button to mute the volume level and MUTE appears on the display. To cancel the mute mode, use any one of the following steps:

- Press again the <MUTE> button
- Turn the volume control rotary knob.
- Press the <RADIO> or <MEDIA> button.

## RADIO OPERATION

When the ⏻ (power ON/OFF) button is pressed, the audio unit will switch on with the last received radio station, if the audio unit was previously switched off in radio mode.

The radio is able to receive multiple kinds of audio transmissions:

- FM
- AM

### Radio band select buttons

Press the **<RADIO>** button to change the audio transmission source as follows:

FM1 → FM2 → AM → FM1

When **<RADIO>** button is pressed, the radio will come on at the last received radio station. If audio is already playing using one of the other input sources (iPod, Bluetooth, CD, USB, AUX-in) pressing the **<RADIO>** button will switch off the playing source mode and the last received radio station will be selected.

When the **<RADIO>** button is pressed for more than 1.5 seconds while in FM modes will automatically update current stations list.

### Setting preset stations

**Auto populating the FM List:**

When the **<RADIO>** button is pressed for more than 1.5 seconds the six stations with the strongest signals are stored in the preset (1 to 6) buttons of the band. During the search, a notification message [Updating FM List] appears in the display and the sound is muted until the operation is complete. Once completed, the radio reverts to the previously selected radio station.

## Manual tuning

When adjusting the broadcasting station frequency manually access the FM List and turn the **<MENU>** dial until the desired station is tuned in.

The frequency increases or decreases in steps of 100 kHz on the FM band, and 9 kHz on the AM band.

**⚠ WARNING**

**The radio should not be tuned while driving in order for full attention to be given to the driving operation.**

## SEEK tuning buttons

**FM mode:**

Pressing the ▶▶| or |◀◀ button starts the tuning mode. A short press of the button will increase or decrease the frequency a single step. Pressing the button longer will activate the seek mode. The radio tuner seeks from low to high or high to low frequencies and stops at the next broadcasting station. During seek mode, the audio output is muted. If no broadcasting station can be found within the complete band cycle, it will return to the initial frequency.

## Preset station buttons ①②③④⑤⑥

Pressing a preset button for less than 2 seconds will select the stored radio station.

Pressing a preset button for more than 2 seconds while in the FM list or radio main screen will cause the station currently being received to be stored against that preset button.

- Twelve stations (if available) can be stored in the FM bands. (Six each for FM1 and FM2)
- Six stations (if available) can be set for the AM band.

If the battery is disconnected, or if the fuse blows, the radio memory will be erased. In that case, reset the desired stations after battery connection or fuse replacement.

## Radio Data System (RDS) operation (where available)

The RDS is a system through which encoded digital information is transmitted by FM radio stations in addition to the normal FM radio broadcasting. The RDS provides information services such as station name, traffic information, or news.

**NOTE:**

- **In some countries or regions, some of these services may not be available.**

**Alternative Frequency (AF) mode:**

The AF mode operates in the FM (radio) mode.

- The AF mode operates in the FM (radio), AUX or CD mode (if FM was previously selected in the radio mode).
- The AF function compares signal strengths and selects the station with the optimum reception conditions for the currently tuned-in station.

## RDS functions

**Programme Service (PS) function (station name display function):**

– FM:
When an RDS station is tuned in with seek or manual tuning, the RDS data is received and the PS name is displayed.

## TA Traffic announcement

This function operates in FM (Radio) mode. This function will still operate in the background if any media source is selected.

- Pressing the **<TA>** button selects the TA mode. The TA indicator is displayed while TA mode is on.
- When **<TA>** is pressed again. The mode will be switched off and the TA indicator will disappear from the display.

**Traffic announcement interrupt function:**

When a traffic announcement is received, the announcement is tuned in and the display shows a notification message with the radio station name e.g. TA: Radio 1.

Once the traffic announcement has finished, the unit returns to the source that was active before the traffic announcement started.

If **<TA>** is pressed during a traffic announcement, the traffic announcement interrupt mode is cancelled. The TA mode returns to the standby mode and the audio unit returns to the previous source.

**NOTE:**
**Depending on region, this service might not be available.**

## SETUP BUTTON




To configure [Audio], [Clock], [Radio], and [Language] settings, perform the following procedure:

1. Press the **<SETUP>** button.
2. Turn the **<MENU>** dial clockwise or anticlockwise, the display will appear in the following order:

   [Audio] ⇔ [Clock] ⇔ [Radio] ⇔ [Language]

After the desired levels have been set, press either the ↩ (Back) button repeatedly, or the **<SETUP>** button.

## Audio adjustments

1. Press the **<SETUP>** button to enter the setup menu screen then select [Audio].
2. Turn the **<MENU>** dial clockwise or anticlockwise, the display will appear in the following order:

   [Sound] → [AUX in] → [Speed Vol.] → [Bass Boost] → [Audio Default]

**[Sound] menu:**

Submenus in the sound menu:

| | |
|---|---|
| [Bass] | Use this control to enhance or attenuate bass response sound. Turn the **<MENU>** dial clockwise or anticlockwise to adjust the bass settings then press **<ENTER>** to confirm. |
| [Treble] | Use this control to enhance or attenuate the treble. Turn the **<MENU>** dial clockwise or anticlockwise to adjust the treble settings then press **<ENTER>** to confirm. |
| [Bal.] | Use this control to adjust the balance of the volume between the left and right speakers. Turn the **<MENU>** dial anticlockwise or clockwise to adjust the left/right balance then press **<ENTER>** to confirm. |
| [Fade] | Use this control to adjust the balance of the volume between the front and rear speakers. Turn the **<MENU>** dial anticlockwise or clockwise to adjust the front/rear balance then press **<ENTER>** to confirm. |

**[AUX in] menu:**

Use this control to adjust the volume output from the auxiliary source.
Turn the **<MENU>** dial anticlockwise or clockwise to select [Low], [Medium], or [High] mode then press **<ENTER>** to confirm.

**[Speed Vol.] menu:**

This mode controls the volume output from the speakers automatically in relation to vehicle speed. When [Speed Vol.] is displayed, turn the **<MENU>** dial clockwise or anticlockwise to adjust the volume level.

Adjusting the setting to 0 (zero) turns off the speed volume feature. Increasing the speed volume setting results in the audio volume increasing more rapidly with vehicle speed. Once chosen, press **<ENTER>** to save the setting.

**[Bass Boost] menu:**

Switch [Bass boost] [ON] or [OFF]

**[Audio Default] menu:**

The audio unit has a saved preset settings as a factory default. Select [Yes] to change all settings back to the factory preset settings. Select [No] to exit the menu keeping the current settings.

## Setting the clock

The clock menu screen set up screen will appear when selecting the [Clock] item from the setup menu.

**[Set Time]:**

Select [Set Time] then adjust the clock as follows:

1. The hour display will start flashing. Turn the **<MENU>** dial to adjust the hour.
2. Press the **<ENTER>** button. The minute display will start flashing.
3. Turn the **<MENU>** dial to adjust the minute.
4. Press **<ENTER>** to finish the clock adjustment.

**[On/Off]:**

Set the clock display between on or off when the audio unit is turned off.

If set in the [ON] position, the clock will be displayed when the audio unit is turned off either by pressing the ⏻ button or when the power is placed in the **OFF** position.

**[Format]:**

Set the clock display between 24-hour mode and 12-hour clock mode.

## [Radio] menu

For activation or deactivation details, see ☞ "SETUP button" later in this section.

| | |
|---|---|
| [TA] | Use this control to switch Traffic Announcements on or off when the unit starts. Turn the **<MENU>** dial clockwise or anticlockwise to select then press **<ENTER>** to confirm. |
| [Ref. FM List] | Manually update the FM station list Press the **<ENTER>** to start the search of the stations. The text [Updating FM list...] appears. In a short period of time the stations are updated and the last station (if possible) starts playing. |

### Language settings

Select the appropriate language and press the **<ENTER>** button. Upon completion, the screen will automatically adapt the language setting.

- [Deutsch]
- [Español]
- [Français]
- [Italiano]
- [Nederlands]
- [Polski]
- [Português]
- [Türkçe]
- [UK English]
- [русский]

## COMPACT DISC (CD) OPERATION

The CD player can play a music CD or an encoded MP3/WMA CD and while listening to those CD's music information tags (track and artist information) can be displayed (when CD encoded with text is being used).

Press the **<MEDIA>** button and the CD (if loaded) will start to play.

When **<MEDIA>** is pressed and the radio or another source mode is already operating, it will automatically turn off the playing source and the CD play mode will start.

**⚠ CAUTION**

- **Do not force the CD into the slot. This could damage the player.**
- **Do not use 8 cm (3.1 in) discs.**

### CD insert (CD player)

Insert the CD disc into the slot with the label side facing up. The disc will be guided automatically into the slot and will start playing. After loading the disc, track information will be displayed.

**NOTE:**

- **The CD player accepts normal audio CD or CD recorded with MP3/WMA files.**
- **Inserting a CD recorded with MP3/WMA files, the audio unit will automatically detect and [MP3CD] will be indicated.**
- **An error notification message will be displayed when inserting a wrong disc type (e.g. DVD), or the player cannot read the CD disc. Eject the disc and insert another disc.**

### MEDIA button

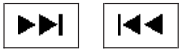
Load a CD disc. After a short loading period the CD starts playing.

If the disc was already loaded:
Press the **<MEDIA>** button (depending on other connected audio sources if necessary multiple times) to select CD. Playing starts from the track that was being played when the CD play mode was switched off.

### Audio main operation

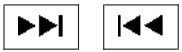
**List view:**

While the track is being played, either press the **<ENTER>** button or turn the **MENU** dial to display the available tracks in a listed view mode. To select a track from the list, or a track to start listening from, turn the **<MENU>** dial then press **<ENTER>**.
Press the ⮌ button to return to the song.



**Fast Forward (Cue), Fast Reverse (Review) buttons:**

When the ▶▶| (Cue) or |◀◀ (Review) button is pressed continuously, the track will be played at high speed. When the button is released, the track will be played at normal playing speed.



**Track up/down buttons:**

Pressing the ▶▶| or |◀◀ button once, the track will be skipped forward to the next track or backward to the beginning of the current played track. Press the ▶▶| or |◀◀ button more than once to skip through the tracks.

**Folder browsing:**

If the recorded media contains folders with music files, pressing the ▶▶| or |◀◀ button will play in sequence the tracks of each folder.

To select a preferred folder:

1. Press the **<ENTER>** button or turn the **<MENU>** dial and a list of tracks in the current folder is displayed.

2. Turn the **<MENU>** dial for the preferred folder.
3. Press **<ENTER>** to access the folder. Press **<ENTER>** again to start playing the first track or turn the **<MENU>** dial, and press **<ENTER>** to select another track.

If the current selected folder contains sub folders, press **<ENTER>**, a new screen with a list of sub folders will be displayed. Turn the **<MENU>** dial for the sub folder then press **<ENTER>** to select. Select the root folder item when songs are recorded additionally in the root folder.

To return to the previous folder screen, press ↩ .

**RPT** **Repeat button:**

Push the **RPT** button ① and the current track will be played continuously.

**MIX** **button:**

Push the MIX button ② and all the tracks in the current folder (MP3 CD/USB) or playlist (iPod) will be played in a random order.

When the entire folder/playlist has been played the system will start playing the next folder/playlist.

**DISP** **button:**

While a CD with recorded music information tags (CD-text/ID3-text tags) is being played, the title of the played track is displayed. If the title information is not provided then [Track] is displayed.

When the DISP button is pressed repeatedly, further information about the track can be displayed along with the track title as follows:

CD:

Track time → Artist name → Album title → Track time

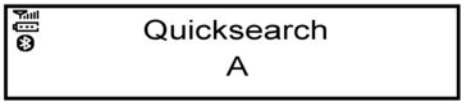
CD with MP3/WMA:

Track time → Artist name → Album title → Folder name → Track time

The track name is always displayed.

**Track details:**

A long press on the DISP button will turn the display into a detailed overview and after a few seconds it returns to the main display, or press DISP briefly.




**Quick search:**

When a MP3 CD with recorded music information tags (ID3-text tags) is being played from list view mode, a quick search can be performed to find a track from the list.

Push the **<A-Z>** button then turn the **<MENU>** dial for the first alphabetic/numerical letter of the track title then press **<ENTER>**. When found, a list of the available tracks will be displayed. When there is no match (the display shows [No match] the next item will be shown. Select, and press **<ENTER>** to play the preferred track.

## CD eject button

**CD player:**

Press the ⏏ (eject) button and the CD will be ejected.

**Ejecting CD (with power switch in OFF or LOCK):**

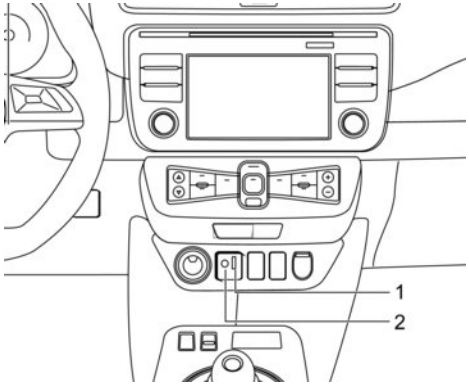
When the power switch is in the **OFF** or **LOCK** position it is possible to eject the currently played CD. However the audio unit will not be activated.

Press the ⏏ button and the CD will be ejected.

**NOTE:**

- **When the CD is ejected and not removed within 8 seconds, it will automatically retract into the slot to protect it from damage.**
- **If an error message appears in the display, press ⏏ to eject the faulty CD and insert another CD or check if the ejected CD is inserted upside down.**

The AUX and USB sockets are located on the centre console.




1. USB (Universal Serial Bus) Connection Port
2. AUX socket

## AUX SOCKET

### Audio main operation

The auxiliary input jack accepts any standard analog audio input such as from a portable cassette player, CD player or MP3 player.

Insert a 3.5 mm (1/4 inch) stereo mini plug in the auxiliary socket. If a cable with a mono plug is used, the audio output may not function normally.

Press the **<MEDIA>** button to select the AUX mode.

## USB (Universal Serial Bus) CONNECTION PORT (where fitted)

### Connecting USB memory

Connect a USB memory stick or another USB device. The display will show the notification message [USB Detected Please Wait...] for a few seconds, while it is reading the data.
If the audio system has been turned off while the USB memory was playing, pressing ⏻ will start the USB device operation.

**⚠ CAUTION**

- **Do not force the USB device into the USB port. Inserting the USB device tilted or upside-down into the port may damage the USB device and the port. Make sure that the USB device is connected correctly into the USB port. (Some USB devices come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the device.)**
- **Do not locate objects near the USB device to prevent the objects from leaning on the USB device and the port. Pressure from the objects may damage the USB device and the port.**

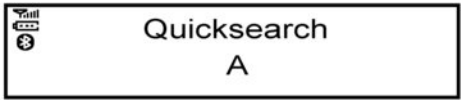
### MEDIA button

To operate the USB device press **<MEDIA>** once or repeatedly until [USB] is available.

### Audio main operation

The following operations are identical to the audio main operation of the Compact Disc (CD) operation. For details, see "Compact Disc (CD) operation" earlier in this section.

- List view
- Quick search
- ▶▶|, |◀◀
- MIX (Random play)
- RPT (Repeat track)
- Folder browsing




**Quick search:**

When a USB device with recorded music information tags (ID3-text tags) is being played from list view mode, a quick search can be performed to find a track from the list.

Push the **<A-Z>** ⑥ button then turn the **<MENU>** dial for the first alphabetic/numerical letter of the track title then press **<ENTER>**. When found, a list of the available tracks will be displayed. When there is no match (the display shows [No match] the next item will be shown. Select, and press **<ENTER>** to play the preferred track.

## DISP button ⑤

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed. If the tags are not provided then a notification message is displayed.

When the DISP button ⑤ is pressed repeatedly, further information about the track can be displayed along with the track title as follows:

Track time → Artist name → Album title → Track time

**Track details:**

A long press on the DISP button ⑤ will turn the display into a detailed overview and after a few seconds it returns to the main display, or press the DISP button ⑤ briefly.

# iPod® PLAYER OPERATION (where fitted)

## Connecting iPod®

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

Connect the iPod cable to the USB connector. The battery of the iPod® will be charged during the connection to the vehicle. The display will show the notification message [iPod <Name> Detected] for a few seconds, while it is reading the data.

If the audio system has been turned off while the iPod® was playing, pressing ⏻ will start the iPod® operation. During the connection, the iPod® can only be operated with the audio controls.

* iPod® and iPhone® are trademarks of Apple Inc., registered in the U.S. and other countries.

**⚠ CAUTION**

- **Do not force the iPod cable into the USB port. Inserting the iPod cable tilted or upside- down into the port may damage the iPod cable and the port. Make sure that the iPod cable is connected correctly into the USB port. (Some iPod cables come with a mark as a guide. Make sure that the mark is facing the correct direction before inserting the iPod cable.)**
- **Do not locate objects near the iPod cable to prevent the objects from leaning on the iPod cable and the port. Pressure from the objects may damage the iPod cable and the port.**

**Compatibility:**

**NOTE:**

- **At the time of publication, this audio system was tested with the latest iPod® players/iPhone® available. Due to the frequent update of consumer devices like MP3 players, NISSAN cannot guarantee that all new iPod® players/iPhone® launched will be compatible with this audio system.**
- **Some iPod® operations may not be available with this system.**
- **NISSAN audio system supports only accessories that Apple has certified and that come with the "Made for iPod/iPhone/iPad" logo.**
- **Make sure that the iPod®/iPhone® is updated with the latest firmware.**
- **iPod® Shuffle and iPod® mini cannot be used with this system.**
- **Full functionality of iPhone USB and Bluetooth Audio may not be available to the user if the same device is connected by USB and Bluetooth simultaneously.**

## MEDIA button

To operate the iPod press **<MEDIA>** once or repeatedly until [iPod <Name>] is shown.




## Audio main operation

**Interface:**

The interface for iPod® operation shown on the audio system display is similar to the iPod® interface. Use the **<MENU>** dial and the **<ENTER>** button to play a track on the iPod®.

The following items can be chosen from the menu list screen.

- [Playlists]
- [Artists]
- [Albums]
- [Tracks]
- [More...]

- [Composers]
- [Genre]
- [Podcasts]

For further information about each item, see the iPod® owner's manual.

The following operations are identical to the audio main operation of the Compact Disc (CD) operation. For details, see ☞ "Compact Disc (CD) operation" earlier in this section.

- List view
- ▶▶|, |◀◀
- MIX (Random play)
- RPT (Repeat track)
- Folder browsing

**DISP button ⑤**

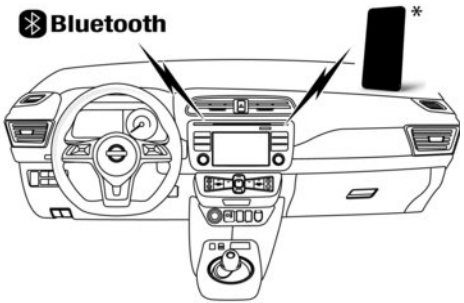
While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed. If the tags are not provided then a notification message is displayed.

When the DISP button ⑤ is pressed repeatedly, further information about the track can be displayed along with the track title as follows:

Track time → Artist name → Album title → Track time

**Track details:**

A long press on the DISP button, the screen displays the song title, artist name, and album title. After a few seconds it returns to the main display or press the DISP button ⑤ briefly.




## BLUETOOTH® OPERATION

### Regulatory information

Bluetooth® is a trademark owned by Bluetooth SIG, Inc.

### CE statement

Hereby Yanfeng Visteon Automotive Electronics Co., Ltd. declares that this system is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

CE

**NOTE:**
**The audio system only supports Bluetooth® devices with AVRCP (Audio Video Remote Control Profile) version 1.4 or earlier.**

### BLUETOOTH® settings

To pair a device, make sure the Bluetooth is switched on and use the [Scan devices] key or the [Pair device] key For details, see ☞ "[Scan devices]" later in this section.

Up to 5 different Bluetooth devices can be connected. However, only one device can be used at a time. If 5 different Bluetooth registered devices are registered, a new device can only replace one of the 5 existing paired devices. Use [Del. device] key to delete one of the existing paired devices. For details, see ☞ "[Del. device]" later in this section.

When successfully paired a notification message will be displayed, then the audio system display will return to the current audio source display. During connection the following status icons will be displayed (top left of the display): Signal strength ( ), Battery status* ( ) and Bluetooth ON ( ).

*: If the low battery message comes on, the Bluetooth® device must be recharged soon.
The pairing procedure and operation may vary according to device type and compatibility. See the Bluetooth® owner's manual for further details.

**NOTE:**

- **For device details, see your audio/mobile phone Owner's Manual.**
- **For assistance with the Bluetooth® audio/mobile phone integration, please visit your local NISSAN dealer.**

**To set up the Bluetooth system with a device the following items are available:**




- [Scan devices]
  Bluetooth devices can be paired with the system. A maximum of 5 Bluetooth devices can be registered.
- [Pair device]
  Bluetooth devices can be paired with the system. A maximum of 5 Bluetooth devices can be registered.
- [Sel. device]
  Paired Bluetooth devices are listed and can be selected for connection.
- [Del. device]
  A registered Bluetooth device can be deleted.
- [Bluetooth]
  If this setting is turned off, the connection between the Bluetooth devices and the in-vehicle Bluetooth module will be cancelled.

**[Scan devices]:**

1) Press the button. Select [Scan devices]
   The audio unit searches Bluetooth devices and shows all visible devices.
   Make sure your Bluetooth device is visible at this time.
2) Select the device to be paired.
   Use the **<MENU>** dial and press to select.
3) The pairing procedure may depend on the device to be connected:
   1) Device without PIN code:
      The Bluetooth connection will be automatically connected without any further input.
   2) Device with PIN code:
      Two different ways of pairing are possible depending on the device:
      - Type A:
        The message [To pair] [Enter Pin] 0000 will be displayed.
        Confirm the PIN code on the device.
        The Bluetooth connection will be made.
      - Type B:
        The message [Pairing request] [Confirm password] together with a 6 digit code will be displayed. The unique and identical code should be displayed on the device. If the code is identical confirm on the device.
        The Bluetooth connection will be made.

**[Pair device]:**

- Turn the audio unit Bluetooth® on. See [Bluetooth] description.
- Use the audio unit to pair:
  Press the button. Select the [Pair Device] key.
  The pairing procedure depends on the Bluetooth® device to be connected:
  1) Device without PIN code:
     The Bluetooth® connection will be automatically connected without any further input.
  2) Device with PIN code:
     Two different ways of pairing are possible depending on the device, for the correct procedure details, see "[Scan devices]" earlier in this section.
- Use the Bluetooth® audio/mobile phone device to pair:
  1) Follow the instructions in the owner's manual for the Bluetooth® enabled device to search for the audio unit.
     If the search mode finds the audio unit it will be shown on the device display.
  2) Select the audio unit shown as [My Car].
  3) Follow the instructions in the owner's manual for the Bluetooth® enabled device to establish a connection with the audio unit.
  4) Enter the PIN code shown on the relevant device with the device's own keypad, and press the confirmation key on the device itself.
     Refer to the relevant Bluetooth® device owner's manual for further details.

**[Sel. device]:**

The paired device list shows which Bluetooth® audio or mobile phone devices have been paired or registered with the Bluetooth® audio system. If the list contains devices then select the appropriate device to connect to the Bluetooth® audio system.

The following symbols (where fitted) indicate the capability of the registered device:

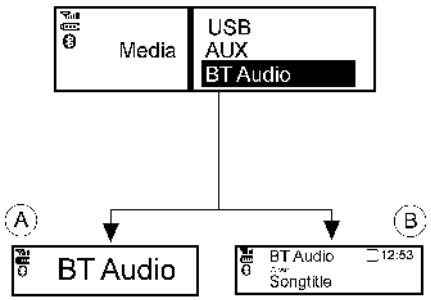
- : Mobile phone integration
- : Audio streaming (A2DP – Advanced Audio Distribution Profile)

**[Del. device]:**

A registered device can be removed from the Bluetooth audio system. Select a registered device then press **<ENTER>** to confirm to deletion.

**[Bluetooth]:**

If Bluetooth® has been switched off a notification message [ON/OFF] appears when you select [Bluetooth] from the phone menu (press ). To switch the Bluetooth® signal on, press **<ENTER>** and a follow up screen will appear. Then select [ON] and press **<ENTER>** to display the Bluetooth® settings menu screen.




## Bluetooth® audio streaming main operation

Place the power switch in the **ACC** or **ON** position. If the audio system was turned off while the Bluetooth® audio was playing, pressing the **<** ⏻ **>** button will start the Bluetooth® audio streaming.

**MEDIA button:**

To operate the Bluetooth® audio streaming use the following method:

- Press **<MEDIA>** repeatedly until [BT Audio] is shown.

The type of display, Ⓐ or Ⓑ, shown on the audio system can vary depending on the Bluetooth® version of the device.

**Fast Forward (Cue), Fast Reverse (Review) buttons:**

When the ▶▶| (Cue) or |◀◀ (Review) button is pressed continuously, the track will be played at high speed. When the button is released, the track will be played at normal playing speed.

**Track up/down buttons:**

Pressing the ▶▶| or |◀◀ button once, the track will be skipped forward to the next track or backward to the beginning of the current played track. Press the ▶▶| or |◀◀ button more than once to skip through the tracks.

## <DISP> button

If the song contains music information tags (ID3-tags), the title of the played song will be displayed. If tags are not provided then the display will not show any messages.

When the <DISP> button is pressed repeatedly further information about the song can be displayed along with the song title.

A long press on <DISP> will turn the display into a detailed overview which after a few seconds returns to the main display; or press <DISP> briefly.

## Bluetooth® mobile phone feature

This system offers a hands-free facility for your mobile telephone with Bluetooth® to enhance driving safety, and comfort.
For details, see "[Scan devices]" later in this section.

## Specification chart

| | | | |
|---|---|---|---|
| Supported media | | | CD-R, CD-ROM, CD-RW, USB 2.0 MSC |
| CD Size | | | 12 cm diameter. up to 1.9 mm thickness |
| Supported file systems for CD | | | ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet<br>* ISO9660 Level 3 (packet writing) is not supported.<br>* Files saved using the Live File System Component (on a Windows Vista-based computer) are not supported. |
| Supported file systems for USB | | | FAT-16, FAT-32 |
| Supported versions *1 | MP3 | Version | MPEG1, Layer 3 |
| | | Sampling frequency | 32 KHz - 44.1 KHz - 48 kHz |
| | | Bit rate | 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 288, 320, Kbps, VBR *4 |
| | WMA *3 | Version | WMA7, WMA8, WMA9 |
| | | Sampling frequency | 16 KHz, 22.05 KHz, 32 KHz, 44.1KHz, 48 kHz |
| | | Bit rate | 48, 64, 80, 96, 128, 160, 192, 256, 320 Kbps, VBR *4 |
| | AAC | Version | MPEG-4, AAC |
| | | Sampling frequency | 8, 11.025, 16, 22.05, 32, 44.1, 48 kHz |
| | | Bit rate | 32, 48, 64, 80, 96, 128, 160, 192 Kbps, VBR *4 |
| Tag information (Song title and Artist and Album name) | | CD | CDDA |
| | | MP3 | ID3 tag ver. 1.0, 1.1, 2.2, 2.4 |
| | | WMA | WMA tag |
| | | AAC | AAC tag |
| Tracks/Files support | | | CDDA — 99 tracks<br>MP3/WMA/AAC in CD — 999 files<br>USB — 30000 files |
| Folders support | | | 100 folders in CD<br>2500 folders in USB<br>Depth — Till 8, Deeper folders shall be under 8, subject to the maximum. |
| Playlists support in USB | | | M3U, WPL, PLS — 1000 playlists. |

| | | |
|---|---|---|
| Text character support | Adjustable character length, depending upon content of media. | File Name: Min 11 Characters ( Max 30 Characters) ID3 TAG : Min 24 Characters. (Max 60 Characters) *5 |
| Displayable character codes *2 | Unicode, ISO8859–15(French), ISO8859–5(Russian Cyrillic), GB18030–2000(Chinese), BIG-5(Taiwanese), KSX1001–2002(Korean) | 01:ASCII, 02: ISO-8859-1, ISO8859–15(French), ISO8859–5(Russian Cyrillic), 03: UNICODE(UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Ncn-BOM Big Endian), 05: UNICODE(UTF-8), 06:UNICODE(Non-UTF-16 BOM Little Endian), 07: SHIFT-JIS, GB18030–2000(Chinese), BIG-5(Taiwanese), KSX1001–2002(Korean) |
| Browsing | | File/Folder browsing for CD/MP3, USB |

*1 Files created with a combination of 48 kHz sampling frequency and 64 Kbps bit rate cannot be played.
*2 Available codes depend on what kind of media, versions and information are going to be displayed.
*3 Protected WMA files (DRM) cannot be played.
*4 When VBR files are played, the playback time may not be displayed correctly. WMA7 and WMA8 are not applied to VBR.
*5 Support 128 Bytes but it depends on display width and character type.

## NISSANCONNECT SYSTEM (where fitted)




Refer to the separately provided NissanConnect Owner's Manual for full details on operating the audio, navigation and mobile phone integration features.

## MOBILE PHONE INTEGRATION (where fitted)

**NOTE:**
**For models with NissanConnect audio and navigation system, see the separately provided NissanConnect Owner's Manual.**

**Depending on the country, compatibility with the cell phone network or system is not guaranteed.**

### BLUETOOTH® MOBILE PHONE FEATURE

**⚠ WARNING**

**While driving, using the mobile phone is extremely dangerous because it significantly impairs your concentration and diminishes your reaction capabilities to sudden changes on the road, and it may lead to a fatal accident. This applies to all phone call situations such as when receiving an incoming call, during a phone conversation, when calling through the phone book search, etc.**

**⚠ CAUTION**

**Certain country jurisdictions prohibit the use of the mobile phone in the car without hands-free support.**

This chapter provides information about the NISSAN hands-free phone system using a Bluetooth® connection.

Bluetooth® is a wireless radio communication standard. This system offers a hands-free facility for your mobile telephone to enhance driving comfort.

In order to use your mobile phone with the Bluetooth® of the audio system, the mobile phone must first be setup. Once it has been setup, the hands-free mode is automatically activated on the registered mobile phone (via Bluetooth®) when it comes into range.

A notification message appears on the audio display when the phone is connected, when an incoming call is being received, as well as when a call is initiated.

When a call is active, the audio system, microphone (located in the ceiling in front of the rear view mirror), and steering wheel switches enable hands-free communication.

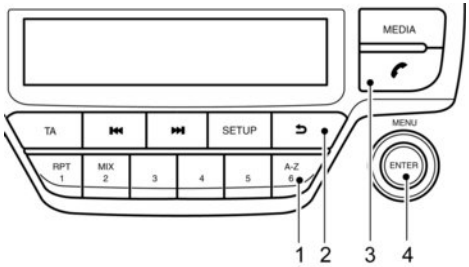
If the audio system is in use at the time, the radio, CD, iPod, USB audio, Bluetooth® audio or AUX source mode will be muted and will stay muted until the active call has ended.

The Bluetooth® system may not be able to connect with your mobile phone for the following reasons:

- The mobile phone is too far away from the vehicle.
- The Bluetooth® mode on your mobile phone has not been activated.
- Your mobile phone has not been paired with the Bluetooth® system of the audio unit.
- The mobile phone does not support Bluetooth® technology (BT Core v2.0).

**NOTE:**

- **For models with NissanConnect System see the separately provided NissanConnect Owner's Manual.**
- **For details, see your mobile phone's Owner's Manual.**
- **For assistance with your mobile phone integration, please visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**




① Phone book quick search button **A-Z**

② (Back) button

③ Phone button

④ **<MENU>** or **<ENTER>** button (rotate and push to select)

## BLUETOOTH® settings

Enter the phone setup menu via the (phone) button, select the [Bluetooth] key, and then check if the Bluetooth® is set to on (default setting is on, push the **<ENTER>** button if not).
To setup the Bluetooth® system to pair (connect or register) your preferred mobile phone, follow the following procedure.
To pair a device, use the [Scan devices] key or the [Pair device] key.
Up to 5 different Bluetooth® devices can be connected. However, only one device can be used at a time. If 5 different Bluetooth® registered devices are registered, a new device can only replace one of the 5 existing paired devices. Use [Del. device] key to delete one of the existing paired devices.

When successfully paired a notification message will be displayed, then the audio system display will return to the current audio source display. During connection the following status icons will be displayed (top left of the display): Signal strength ( ), Battery status* ( ) and Bluetooth® "ON" ( ).
*: If the low battery message comes on, the Bluetooth® device must be recharged soon.
The pairing procedure and operation may vary according to device type and compatibility. See the Bluetooth® owner's manual for further details.

**NOTE:**

- **For device details, see your audio/mobile phone Owner's Manual.**
- **For assistance with the Bluetooth® audio/mobile phone integration, please visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**
- **A maximum of 5 Bluetooth® devices can be paired with the system.**

**To set up the Bluetooth® system with a device the following items are available:**




- [Scan devices]
  Shows all available visible Bluetooth® devices and initializes Bluetooth® connection from the audio unit.
- [Pair device]
  Initializes Bluetooth® connection from the mobile device.
- [Sel. device]
  Paired Bluetooth® devices are listed and can be selected for connection.
- [Del. device]
  A registered Bluetooth® device can be deleted.
- [Bluetooth]
  If this setting is turned off, the connection between the Bluetooth® devices and the in-vehicle Bluetooth® module will be cancelled.

**[Scan devices]:**

1) Press the button. Select [Scan devices]
   The audio unit searches Bluetooth® devices and shows all visible devices.
   Pressing the button cancels the search.
2) Select the device to be paired.
   Use the **<MENU>** dial and press to select.
3) The pairing procedure depends on the device to be connected:
   1) Device without PIN code:
      The Bluetooth® connection will be automatically connected without any further input.
   2) Device with PIN code:
      Two different ways of pairing are possible depending on the device:
      - Type A:
        The message [To pair] [Enter Pin] 0000 and a countdown timer will be displayed. Confirm the PIN code on the device.
        The Bluetooth® connection will be made.
        If the countdown timer reaches 0 the attempt to pair the devices will be cancelled.
      - Type B:
        The message [Pairing request] [Confirm password] together with a 6 digit code will be displayed. The unique and identical code should be displayed on the device. If the code is identical confirm on the device.
        The Bluetooth® connection will be made.

**Pair device:**

Turn on the Bluetooth® on the audio unit. See "[Bluetooth]" later in this section.

- Use the audio unit to pair:
  Push the button on the instrument panel.
  Select the [Pair device] key.
  The pairing procedure depends on the Bluetooth® device to be connected:
  1) Device without PIN code:
     The Bluetooth® connection will be automatically connected without any further input.
  2) Device with PIN code:
     Two different ways of pairing are possible depending on the device. For the correct procedure details, see "[Scan devices]" earlier in this section.
- Use the Bluetooth® audio/cellular phone device to pair:

**For models with DAB**

1) Switch on the search mode for Bluetooth® devices. If the search mode finds the audio unit, it will be shown on the device display.
2) Select the unit device shown as [My Car].
3) Enter the number code shown on the relevant Bluetooth® device with the device's own keypad, and push the confirmation key on the device and the MENU/ENTER dial on the audio unit.

When an Apple device is connected via the USB connection port and Bluetooth®, the device will be recognized as a Bluetooth® device. The battery of the Apple device is charged while the cable is connected to the USB connection port.

**For models without DAB**

1) Switch on the search mode for Bluetooth® devices.
   If the search mode finds the audio unit it will be shown on the device display.
2) Select the unit device shown as [My Car].
3) Enter the number code shown on the relevant device with the device's own keypad, and push the confirmation key on the Bluetooth® device.

Refer to the relevant Bluetooth® device Owner's Manual for further details.

**[Sel. device]:**

The paired device list shows which Bluetooth® audio or mobile phone devices have been paired or registered with the Bluetooth® audio system. If the list contains devices then select the appropriate device to connect to the Bluetooth® audio system.

The following symbols (where fitted) indicate the capability of the registered device:

- : Mobile phone integration
- : Audio streaming (A2DP – Advanced Audio Distribution Profile)

**[Del. device]:**

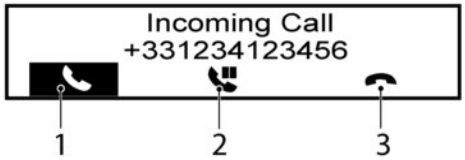
A registered device can be removed from the Bluetooth® audio system. Select a registered device then press **<ENTER>** to confirm the deletion.

**[Bluetooth]:**

If Bluetooth® has been switched off a notification message [ON/OFF] appears when you select [Bluetooth] from the phone menu (press ). To switch the Bluetooth® signal on, press **<ENTER>** and a follow up screen will appear. Then select [ON] and press **<ENTER>** to display the Bluetooth® settings menu screen.

## HANDS-FREE TELEPHONE CONTROL

The hands-free mode can be operated using the telephone button on the audio system, or the button (where fitted) on the steering wheel.




### Receiving a call

When receiving an incoming call, the display will show the caller's phone number (or a notification message that the caller's phone number cannot be shown) and three operation icons.

**1. Answering and during a call:**

Answer the call by pressing **<ENTER>** (the is highlighted).

By pressing **<ENTER>**, you can select the following options:

- Ending the call by selecting and press **<ENTER>**.
- Put the call on hold by selecting and press **<ENTER>**.
- [ ]
  Use this item (the transfer handset command) to transfer the call from the audio system to your mobile phone.
  To transfer the call back to hands-free via the audio system select [ ].
- [#123]
  Use this item to enter numbers during a call. For example, if directed by an automated phone system to dial an extension number the system will send the tone associated with the selected number.

**2. Put a call on hold:**

Rotate the **<MENU>** dial until is highlighted, press **<ENTER>**. The call is on hold. Pressing **<ENTER>** accepts the call, rotate the **<MENU>** dial clockwise and press **<ENTER>** to reject.

**3. Rejecting a call:**

Rotate the **<MENU>** dial until is highlighted, press **<ENTER>**. The call is rejected.




### Initiating a call

A call can be initiated using one of the following methods:

- Making a call from the phone book
- Manually dialing a phone number
- Redialing
- Using call history (Call List menu)
  - Dialled
  - Received
  - Missed

**Making a call from the phone book:**

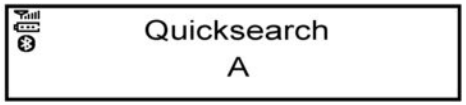
Once the Bluetooth® connection has been made, between the registered mobile phone and the audio system, phone book data will be transferred automatically to the audio system. The transfer may take a while before completion.

**NOTE:**
**Phone book data will be erased when:**

- **Switching to another registered mobile phone.**
- **Mobile phone is disconnected.**
- **The registered mobile phone is deleted from the audio system.**

1. Press <>.
2. Turn the **<MENU>** dial and scroll down to [Phone Book] then press **<ENTER>**.
3. Scroll down through the list, select the appropriate contact name (highlighted), and press **<ENTER>**.
4. A following screen will show the number to be dialled. If correct, press **<ENTER>** again to dial the number.

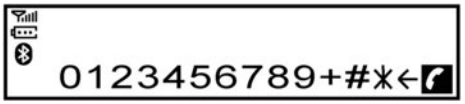
   If the contact has more numbers assigned for (home), (mobile), or (office), scroll, and select the appropriate number to dial.




Alternatively, the quick search mode can be used as follows:

1. While in the phonebook screen press **<A-Z/⑥>**.
2. Turn the **<MENU>** dial for the first alphabetic or numerical letter of the contact name. Once highlighted, press **<ENTER>** to select the letter.
3. The display will show the corresponding contact name(s). Where necessary, use the **<MENU>** dial again to scroll further for the appropriate contact name to call.
4. A following screen will show the number to be dialled. If correct, press **<ENTER>** again to dial the number.




**Manually dialing a phone number:**

**⚠ WARNING**

**Park the vehicle in a safe location, and apply the parking brake before making a call.**

To dial a phone number manually use the audio system display (virtual keyboard pad) as follows:

1. Press , and turn the **<MENU>** dial to highlight [Dial Number].
2. Press **<ENTER>** to select [Dial Number].
3. Turn the **<MENU>** dial to scroll along, and select each number of the phone number. Once highlighted, press **<ENTER>** after each number selection.

   To delete the last number entered scroll to the [←] (Backspace) symbol, and once highlighted press **<ENTER>**. The last number will be deleted. Pressing **<ENTER>** repeatedly will delete each subsequent number.
4. After entering the last number, scroll to the symbol, and press **<ENTER>** to dial the number.

**Redial:**

To redial or call the last number dialled, press for more than 2 seconds.




**Using call history (Call List menu):**

A number from the dialled, received, or missed call lists can also be used to make a call.

- [Dialed]
  Use the dialled call mode to make a call which is based on the list of outgoing (dialled) calls.
- [Received]
  Use the received call mode to make a call which is based on the list of received calls.
- [Missed]
  Use the missed call mode to make a call which is based on the list of missed calls.

1. Press , and select [Call List].

2. Turn the **<MENU>** dial to scroll to an item, and press **<ENTER>** to select it.
3. Scroll to the preferred phone number then press **<ENTER>**, or press to dial the number.




## Second incoming call

Whenever there is a second incoming call is shown in the display. By selecting the icon the call is accepted and the current call is put on hold.
Selecting by rotating **<MENU>** and pressing **<ENTER>** rejects the second incoming call. When this is done during the conversation it ends the call.
Selecting the key using the **<MENU>** dial and pressing **<ENTER>** switches between the phone conversations.
(For the other selections, see Making a call from the phone book earlier)




## General settings

From the phone menu select [Settings]
Volume settings and manually downloading the phonebook can be done using this menu.

Menu operation:
Press **<ENTER>** to select, rotate the **<MENU>** dial to increase or decrease the volume.
Press **<ENTER>** to confirm.
Menu items:

- [Volume]
  - [Ring]
    Set the phone ringing volume
  - [Call]
    Set the volume of the conversation during a call.
- [Ringtone]
  - [Car]
    Choose the in car ringtone.
  - [Phone]
    Choose the phone ringtone.
- [PB download]
  Download the phonebook of the mobile device to the audio unit manually.

## Standby mode operation

The audio system is in standby mode when the audio system is inactive but the clock is displayed on the screen.

When a mobile device is connected to the in-vehicle audio system via Bluetooth with the audio system in the standby mode, the audio system will turn on automatically under the following instances:

- The connected mobile device receives an incoming call.
- An outgoing call is made with the connected phone.

The Bluetooth Hands-Free Phone System operation will become possible on the audio system once it is turned on. The audio system will automatically return to standby mode after the call is disconnected.

## STEERING WHEEL SWITCHES

The hands-free mode can be operated using the steering wheel switches. For a complete overview of functions see, "Steering wheel switches for audio and hands-free telephone control" earlier in this section.

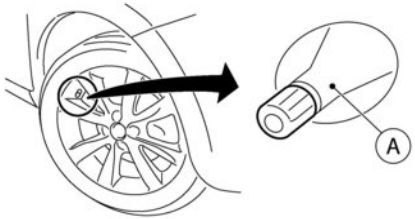
# 5 Starting and driving


Precautions when starting and driving ..... 5-2
Tyre Pressure Monitoring System (TPMS) ..... 5-2
Avoiding collision and rollover ..... 5-6
Off-road recovery ..... 5-6
Rapid air pressure loss ..... 5-7
Drinking alcohol/drugs and driving ..... 5-7
Intelligent Key system ..... 5-8
Push-button power switch ..... 5-8
Intelligent Key operating range for electric vehicle start function ..... 5-8
Power switch operation ..... 5-9
Power switch positions ..... 5-9
Emergency electric vehicle shut off ..... 5-10
Intelligent Key battery discharge ..... 5-10
Before starting the electric vehicle system ..... 5-11
Starting the electric vehicle system ..... 5-11
Driving the vehicle ..... 5-11
Electric shift control system ..... 5-11
ECO mode ..... 5-14
Parking brake ..... 5-15
Electric Parking Brake (where fitted) ..... 5-15
Manual Parking Brake (where fitted) ..... 5-16
e-Pedal System ..... 5-17
e-Pedal System Operation ..... 5-18
e-Pedal System Limitations ..... 5-19
e-Pedal System Malfunction ..... 5-19
Lane Departure Warning (LDW) system (where fitted) ..... 5-20
LDW system operation ..... 5-21
LDW temporary disabled status ..... 5-22
LDW malfunction ..... 5-22
Multi-sensing camera unit maintenance ..... 5-23
Intelligent Lane Intervention system (where fitted) ..... 5-23
Intelligent Lane Intervention System Operation ..... 5-25
Intelligent Lane Intervention Activation/Deactivation ..... 5-25
Limitations ..... 5-25
ILI temporary Unavailable ..... 5-26
System malfunction ..... 5-27
Multi-sensing camera unit maintenance ..... 5-27
Blind Spot Warning (BSW) system (where fitted) ..... 5-28
BSW system operation ..... 5-28
BSW temporary disabled status ..... 5-31
System malfunction ..... 5-31
System maintenance ..... 5-32
Rear Cross Traffic Alert (RCTA) system (where fitted) ..... 5-32
RCTA system operation ..... 5-33
How to enable/disable the RCTA system ..... 5-35
RCTA system limitations ..... 5-36
System temporarily unavailable ..... 5-37
System malfunction ..... 5-37
System maintenance ..... 5-37
Cruise control (where fitted) ..... 5-38
Precautions on cruise control ..... 5-38
Cruise control operations ..... 5-38
Intelligent Cruise Control (ICC) (where fitted) ..... 5-40
Cruise control operations ..... 5-40
How to select Cruise Control modes ..... 5-41
vehicle-to-vehicle distance control mode ..... 5-41
Conventional (fixed speed) cruise control mode ..... 5-50

Intelligent Emergency Braking (IEB) with Pedestrian Detection system ..... 5-52
Intelligent Emergency Braking (IEB) system ..... 5-52
System operation ..... 5-66
System maintenance ..... 5-66
Intelligent Emergency Braking (IEB) with pedestrian detection system ..... 5-57
System maintenance ..... 5-66
Intelligent Forward Collision Warning (I-FCW) ..... 5-61
System maintenance ..... 5-66
Intelligent Driver Alertness (where fitted) ..... 5-66
System operation ..... 5-67
Increasing power economy ..... 5-68
Ultrasonic Parking Sensors (where fitted) ..... 5-68
Operation ..... 5-69
Maintenance ..... 5-70
Parking ..... 5-71
Electric power steering system ..... 5-72
Brake system ..... 5-72
Braking precautions ..... 5-72
Parking brake break-in ..... 5-74
Anti-lock Braking System (ABS) ..... 5-74
Electronic stability programme (ESP) system ..... 5-75
Chassis control ..... 5-76
Intelligent Trace Control (ITC) ..... 5-76
Intelligent Ride Control ..... 5-77
Cold weather driving ..... 5-77
12–Volt battery ..... 5-77
Coolant ..... 5-78
Tyre equipment ..... 5-78
Special winter equipment ..... 5-78
Parking brake ..... 5-78
Corrosion protection ..... 5-78
Freeing a frozen charge port lid ..... 5-78

**⚠ WARNING**

- **Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.**
- **Closely supervise children when they are around cars to prevent them from playing and becoming locked in the tailgate where they could be seriously injured. Keep the car locked, with tailgate securely latched when not in use, and prevent children's access to car keys.**
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**




Ⓐ Tyre valve with sensor

## TYRE PRESSURE MONITORING SYSTEM (TPMS)

The tyre pressure monitoring system monitors the tyre pressure of the four wheels while the vehicle is in motion. Following a loss in pressure, the system will warn the driver using a visual warning. Each TPMS sensor Ⓐ has a registered wheel location and sends pressure and temperature data via radio to a receiver inside the vehicle.

Each tyre, including the spare (where fitted), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tyre inflation pressure label. (If your vehicle has tyres of a different size than the size indicated on the vehicle placard or tyre inflation pressure label, you should determine the proper tyre inflation pressure for those tyres.)

As an added safety feature, your vehicle has been equipped with a Tyre Pressure Monitoring System (TPMS) that illuminates a low tyre pressure telltale when one or more of your tyres is significantly under-inflated. Accordingly, when the low tyre pressure telltale illuminates, you should stop and check your tyres as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tyre causes the tyre to overheat and can lead to tyre failure. Under-inflation also reduces power efficiency and tyre tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tyre maintenance, and it is the driver's responsibility to maintain correct tyre pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tyre 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 tyre pressure telltale. When the system detects a malfunction, the TPMS warning light 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 tyre pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tyres or wheels on

the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction warning light does not come on after replacing one or more tyres or wheels on your vehicle to ensure that the replacement or alternate tyres and wheels allow the TPMS to continue to function properly.

## Additional information

- The TPMS does not monitor the tyre pressure of the spare tyre (where fitted).
- 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 tyre pressure (for example a flat tyre while driving).
- The low tyre pressure warning light may not automatically turn off when the tyre pressure is adjusted. After the tyre is inflated to the recommended pressure, perform the TPMS reset procedure and then drive the vehicle at speeds above 25 km/h (16 MPH) to activate the TPMS and turn off the low tyre pressure warning light.
- Depending on a change in the outside temperature, the low tyre pressure warning light may illuminate even if the tyre pressure has been adjusted properly. Adjust the tyre pressure to the recommended COLD tyre pressure again when the tyres are cold, and perform the reset procedure.
- If the TPMS is not functioning properly, the low tyre pressure warning light will flash for approximately 1 minute when the power switch is placed in the "ON" position. The light will remain on after the 1 minute. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### ⚠ WARNING

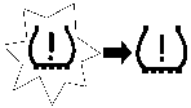
- **If the TPMS indicator light illuminates while driving:**
  - **avoid sudden steering manoeuvres**
  - **avoid abrupt braking**
  - **reduce vehicle speed**
  - **pull off the road to a safe location**
  - **stop the vehicle as soon as possible**
- **Driving with under-inflated tyres may permanently damage the tyres and increase the likelihood of tyre failure. Serious vehicle damage could occur which may lead to an accident and could result in serious personal injury.**
- **Check the tyre pressure for all four tyres. Adjust the tyre pressure to the recommended COLD tyre pressure shown on the tyre placard to turn the TPMS indicator light "OFF". In case of a flat tyre, replace it with a spare tyre (where fitted) as soon as possible. (See "Flat tyre" in the "6. In case of emergency" section for changing a flat tyre.)**
- **When a spare tyre is mounted or a wheel is replaced, the TPMS will not function and the TPMS indicator light will flash for approximately 1 minute. The light will remain on after 1 minute. Be sure to follow all instructions for wheel replacement and mount the TPMS system correctly.**
- **Replacing tyres with those not originally specified by NISSAN could affect the proper operation of the TPMS.**
- **The Genuine NISSAN Emergency Tyre Repair Sealant or equivalent can be used for temporarily repairing a tyre. Do not inject any other tyre liquid or aerosol tyre sealant into the tyres, as this may cause a malfunction of the tyre pressure sensors.**
- **NISSAN recommends using only Genuine NISSAN Emergency Tyre Sealant provided with your vehicle. Other tyre sealants may damage the valve stem seal which can cause the tyre to lose air pressure. Visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible after using tyre repair sealant (for models equipped with the emergency tyre puncture repair kit).**

### ⚠ CAUTION

- **If the vehicle is driven with a flat tyre, this may damage the TPMS sensor for that tyre.**
- **The TPMS may not function properly when the wheels are equipped with tyre chains or the wheels are buried in snow.**
- **Do not place metalised film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tyre 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 TPMS indicator light to illuminate. Some examples are:
  - Facilities or electric devices using similar radio frequencies are near the vehicle.
  - If a transmitter set to similar frequencies is being used in or near the vehicle.
  - If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.
  - If devices which transmit electrical noise are connected to the vehicle's 12–volt battery supply.
- When inflating the tyres and checking the tyre pressure, never bend the valves.
- Special aluminium valves are fitted to mount the TPMS sensors on the wheels. The TPMS sensor is fixed at the wheels by a nut. The nut needs to be correctly fitted at a torque setting of 7.5 ± 0.5 N•m. If the TPMS sensor is tightened exceeding the limit, there is a possibility the sensor grommet will be damaged. If the sensor is tightened under the limit, there is a possibility of causing an air leak.
- Use Genuine NISSAN valve caps that comply with the factory-fitted valve cap specifications.
- Do not use metal valve caps.
- Fit the valve caps properly. Without the valve caps the valve and tyre pressure monitor sensors could be damaged.
- Do not damage the valves and sensors when storing the wheels or fitting different tyres.
- Replace the sensor grommet during a tyre change. Once they have been removed, the sensor grommet cannot be reused and must be replaced. The TPMS sensors can be used again.
- Use caution when using tyre inflation equipment with a rigid air supply tube, as leverage applied by the long nozzle can damage the valve stem.

**Display information:**

| TPMS indicator light(s) | Possible cause | Recommended action |
|---|---|---|
|  | Low tyre pressure<br>Note: Usually, the pressure of the tyre decreases naturally. | Inflate tyre(s) to the correct pressure |
|  | Genuine NISSAN TPMS sensor is not detected at one or more wheels | Check if the TPMS sensors are present. If no sensor is present add a genuine NISSAN TPMS sensor |
| | TPMS radio communication interference between TPMS wheel sensor and TPMS receiver due to external sources. | Drive away from the area of interference |
| | TPMS parts malfunction | If the problem persists contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. |

For additional information about low tyre pressure warning light, see ☞ "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.

## TPMS sensor ID and position recognition

It is recommended that a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer performs the registration of a new TPMS sensor or sensor location.

It is also possible to register the sensor by yourself as follows:

1. Change the tyre position or have new TPMS sensor fitted.
2. Park the vehicle with the power switch in the ON position for more than 20 minutes. You must perform this step before driving.
3. Drive the vehicle for several minutes between 25 km/h (16 MPH) and 100 km/h (64 MPH). The TPMS sensor ID and position will automatically be detected.

**NOTE:**
**The TPMS might not synchronise if one or more of the following conditions apply:**

- **Bad road conditions**
- **The TPMS unit does not receive correct data from tyre pressure sensors**
- **Driving below 25 km/h (16 MPH)**
- **Driving above 100 km/h (64 MPH)**
- **High acceleration**
- **High deceleration**

- **In stop and go traffic or traffic waves**

### TPMS reset

To keep the TPMS functioning properly, the reset must be performed in the following cases.

- when the tyre pressure is adjusted
- when a tyre or a wheel is replaced
- when the tyres are rotated

Perform the following procedure to reset the TPMS.

1. Park the vehicle in a safe and level place.
2. Apply the parking brake and press the P position switch on the shift lever.
3. Adjust the tyre pressure on all four tyres to the recommended COLD tyre pressure shown on the tyre placard that is affixed to the driver's side centre pillar. Use a tyre pressure gauge to check the tyre pressure.
4. Place the power switch in the **ON** position. Do not start the electric vehicle system.
5. Navigate the Vehicle Information Display to the [Settings] menu.
6. Select the [TPMS Settings] menu.
7. Select [TPMS Reset] then push the **<OK>** button on the steering wheel to start the calibrating.
8. To finalise the procedure, start the electric vehicle system and drive the vehicle at speeds above 25 km/h (16 MPH).

If the low tyre pressure warning light illuminates after initialisation the system, it may indicate that the TPMS is not functioning properly. Have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

For additional information about low tyre pressure warning light, see "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.

## AVOIDING COLLISION AND ROLLOVER

**⚠ WARNING**

**Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.**

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering manoeuvres, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers. **In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.**

## OFF-ROAD RECOVERY

While driving, the right side or left side wheels may unintentionally leave the road surface. If this occurs, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

- Remain calm and do not overreact.
- Do not apply the brakes.
- Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
- When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
- If there is nothing in the way, steer the vehicle to follow the road while the vehicle speed is reduced. Do not attempt to drive the vehicle back onto the road surface until vehicle speed is reduced.

- When it is safe to do so, gradually turn the steering wheel until both tyres return to the road surface. When all tyres are on the road surface, steer the vehicle to stay in the appropriate driving lane.
  - If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

## RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a "blow-out" can occur if the tyre is punctured or is damaged due to hitting a kerb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tyres.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspect the tyres for wear and damage. See ☞ "Wheels and tyres" in the "8. Maintenance and do-it-yourself" section of this manual.

If a tyre rapidly loses air pressure or "blows-out" while driving maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

**⚠ WARNING**

**The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tyre air pressure. Losing control of the vehicle may cause a collision and result in personal injury.**

- **The vehicle generally moves or pulls in the direction of the flat tyre.**
- **Do not rapidly apply the brakes.**
- **Do not rapidly release the accelerator pedal.**
- **Do not rapidly turn the steering wheel.**

1. Remain calm and do not overreact.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and either contact a roadside emergency service to change the tyre or see ☞ "Flat tyre" in the "6. In case of emergency" section of this Owner's Manual.

## DRINKING ALCOHOL/DRUGS AND DRIVING

**⚠ WARNING**

**Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.**

NISSAN is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix! That is true for drugs too (over-the-counter, prescription, and illegal drugs). Do not drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

## INTELLIGENT KEY SYSTEM

The Intelligent Key system can be used to operate the power 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. ☞ "Vehicle Information Display" in the "2. Instruments and controls" section.

**⚠ 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 12-volt battery is discharged, the power switch cannot be switched from the LOCK position.**

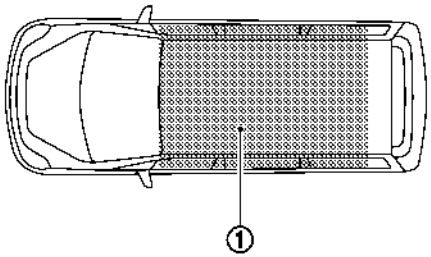
## PUSH-BUTTON POWER SWITCH

**⚠ WARNING**

**Do not operate the power switch while driving the vehicle except in an emergency. (The electric vehicle system shuts down when the power switch is pushed 3 consecutive times or the power switch is pushed and held for more than 2 seconds.) If the electric vehicle system stops while the vehicle is being driven, this could lead to a crash and serious injury.**

Before operating the power switch, make sure the shift lever is in the P (Park) position.

### INTELLIGENT KEY OPERATING RANGE FOR ELECTRIC VEHICLE START FUNCTION



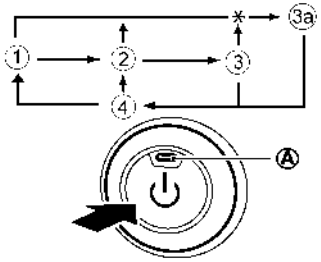

The Intelligent Key function can only be used for starting the electric vehicle system when the Intelligent Key is within the specified operating range ①.

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 it 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 power switch to start the electric vehicle system.

- The cargo area is not included in the operating range but the Intelligent Key may function.
- If the Intelligent Key is placed on the instrument panel, inside the glove box or door pocket, the Intelligent Key may not function.
- If the Intelligent Key is placed near a door or window outside the vehicle, the Intelligent Key may not function.

## POWER SWITCH OPERATION




① LOCK

② ACC

③ ON

③a READY to drive

④ OFF

* Push while the brake pedal is depressed

Ⓐ Indicator light

When the power switch is pushed without depressing the brake pedal, the power switch position will change as follows.

- Push once to change to **ACC**.
- Push two times to change to **ON**.
- Push three times to change to **OFF**.
- Push four times to return to **ACC**.
- Open or close any door to return to **LOCK** while in the **OFF** position.

The indicator light Ⓐ on the power switch illuminates when the power switch is in the **ACC** or **ON** position.

When the power switch cannot be switched to the **LOCK** position, proceed as follows:

1. Push the P position switch on the shift lever to place the vehicle in the P (Park) position.
2. Push the power switch to the **OFF** position. The power switch position indicator Ⓐ will not illuminate.
3. Open the door. The power switch will change to the **LOCK** position.

**The shift lever can be moved from the P (Park) position if the power switch is in the READY position and the brake pedal is depressed.**

## POWER SWITCH POSITIONS

### LOCK (Normal parking position)

The power switch can only be locked in this position.

The power switch will be unlocked when it is pushed to the **ACC** position while the driver is carrying the Intelligent Key.

When the power switch is placed in the **LOCK** position and the brake pedal is depressed, the transmission selects automatically the P (Park) position.

### ACC (Accessories)

This position activates electrical accessories, such as the radio, when the electric vehicle system is OFF.

### ON

This position turns on the electric vehicle system and electrical accessories.

### READY (Normal operating position)

This position turns on the electric vehicle system, electrical accessories and the vehicle can be driven.

### OFF

The electric vehicle system is turned off without locking the steering wheel.

**⚠ CAUTION**

**Do not leave the vehicle with the power switch in the ACC position for an extended period of time. This can discharge the 12-volt battery.**

**NOTE:**
**If the power switch is pushed quickly or is pushed twice quickly, the switch may not function even if a click sound is heard. Push the switch again more slowly.**

### DAYTIME LIGHT SYSTEM (where fitted)

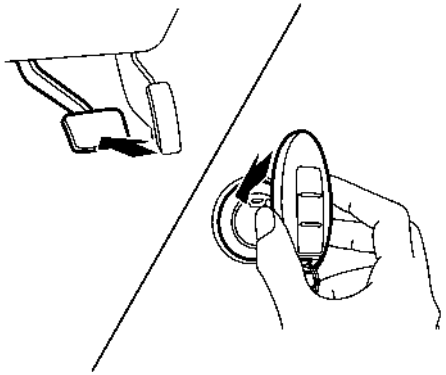
Even if the headlight switch and the fog light switch are in the off position, the daytime lights will come on after the power switch is in the **ON** or **READY** to drive position. The daytime light bulbs are located in the front fog light units.

## EMERGENCY ELECTRIC VEHICLE SHUT OFF

To shut off the electric vehicle in an emergency situation while driving, perform the following procedure.

- Rapidly push the power switch 3 consecutive times,
  or,
- Push and hold the power switch for more than 2 seconds.

## INTELLIGENT KEY BATTERY DISCHARGE



If the Intelligent Key battery is discharged, or environmental conditions interfere with the Intelligent Key operation, start the electric vehicle system in the **READY** to drive mode according to the following procedure:

1. Push the P (Park) position switch on the shift lever.
2. Firmly apply the footbrake.
3. Touch the power switch with the Intelligent Key as illustrated. A chime will sound when the vehicle has recognised the Intelligent Key.
4. Push the power switch while depressing the brake pedal within 10 seconds after the chime sounds. The power switch position changes to the **READY** to drive mode.

After step 3 is performed, if the power switch is pushed without depressing the brake pedal, the power switch position will change to **ACC**.

**NOTE:**

- **When the power switch is pushed to the ACC or ON position or READY to drive mode by the above procedure, the Intelligent Key battery discharge indicator appears on the vehicle information display even if the Intelligent Key is inside the vehicle. This is not a malfunction. To stop the warning indicator from blinking, touch the power switch with the Intelligent Key again.**
- **If the Intelligent Key system battery discharge indicator appears on the vehicle information display, replace the battery as soon as possible. See ☞ "Intelligent Key battery replacement" in the "8. Maintenance and do-it-yourself" section.**

## BEFORE STARTING THE ELECTRIC VEHICLE SYSTEM

- Make sure that the area around the vehicle is free of obstacles.
- Check fluid levels such as coolant, brake fluid, and window washer fluid.
- Check that all windows and light lenses are clean.
- Visually inspect tyres for their appearance and condition. Also check tyres for proper inflation.
- Check that all doors are closed.
- Position the seat and adjust the head restraints.
- Adjust the inside and outside mirrors.
- Fasten your seat belt and ask all passengers to do likewise.
- Check the operation of the warning lights when the power switch is pushed to the ON position. (See "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.)

## STARTING THE ELECTRIC VEHICLE SYSTEM

1. Make sure the parking brake is applied.
2. Make sure that the shift lever is in the P (Park) position.

   The electric vehicle is designed not to operate unless the shift lever is in the P (Park) or N (Neutral) position.

   **The Intelligent Key must be carried with you when operating the power switch and the vehicle.**
3. Depress the brake pedal and push the power switch to place the electric vehicle system in the READY to drive position.

   To place the vehicle in the READY to drive position immediately, push and release the power switch while depressing the brake pedal with the power switch in any position. The READY to drive indicator light in the meter illuminates.
4. To stop the electric vehicle system, push the P (Park) position switch on the shift lever, and push the power switch to the OFF position.

## DRIVING THE VEHICLE

### ELECTRIC SHIFT CONTROL SYSTEM

This vehicle is electronically controlled to produce maximum available power and to provide smooth operation.

The recommended operating procedures for this vehicle are shown on the following pages.

#### Starting vehicle

1. After placing the vehicle in the READY to drive position, fully depress the footbrake pedal before moving the shift lever to the D (Drive) position.

   **The shift lever of this vehicle is designed so that the footbrake pedal must be depressed before shifting from the P (Park) position to any driving position while the power switch is in the ON position.**

   **The shift lever cannot be moved out of the P (Park) position and into any of the other positions if the power switch is placed in the LOCK, OFF or ACC position or if the key is removed.**
2. Keep the footbrake pedal depressed, and move the shift lever to the D (Drive) position.
3. Release the parking brake, footbrake pedal, and then gradually start the vehicle in motion by depressing the accelerator pedal.

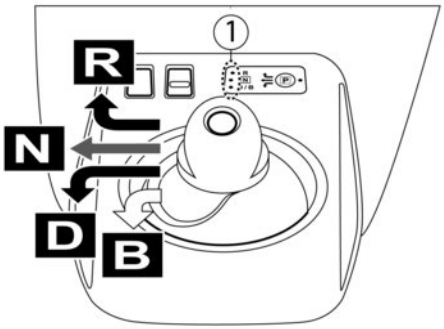
## ⚠ WARNING

- **Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse) or D (Drive) position. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control, which could result in an accident.**
- **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.**

## ⚠ CAUTION

- **To avoid possible damage to your vehicle; when stopping the vehicle on an uphill slope, do not hold the vehicle by depressing the accelerator pedal. The foot brake pedal should be depressed in this situation.**
- **Do not hang items on the shift lever. This may cause an accident due to a sudden start.**
- **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.**

## Shifting




**LHD model**

To move the shift lever,

➡: Slide along the gate while the brake pedal is depressed.

⇛: After sliding, maintain it in the same position until the shift lever is placed in the N (Neutral) position.

⇨: When in the D (Drive) position, slide along the gate.

The shift lever always returns to the centre position when released.

**NOTE:**

- **Confirm that the gear is in the desired shift position by checking the shift indicator ① located near the shift lever or the vehicle information display in the meter.**
- **To place the vehicle into the D (Drive) position from the B position, move the shift lever into the D (Drive) position.**

After placing the vehicle in the READY to drive position, fully depress the brake pedal, and move the shift lever to any of the preferred shift positions.

If the power switch is placed in the OFF or ACC position for any reason while the shift position is in any position other than the P (Park) position, the power switch cannot be placed in the LOCK position.

If the power switch cannot be placed in the LOCK position, perform the following steps.

1. Apply the parking brake when the vehicle is stopped.
2. Place the power switch in the ON position while depressing the footbrake pedal.
3. Press the P position switch on the shift lever and place in the P (Park) position.
4. Place the power switch in the OFF position.

**NOTE:**
**The vehicle automatically applies the P (Park) position when the power switch is in the OFF position.**

## ⚠ WARNING

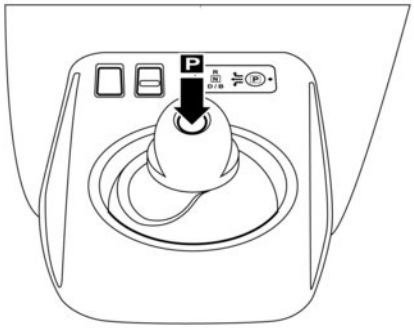
- **The shift lever always returns to the centre position when released. When the power switch is placed in the READY to drive position, confirm that the vehicle is in the P (Park) position. The indicator light next to the P on the shift indicator is illuminated and P is also displayed in the meter. If the vehicle is in the D (Drive) position or R (Reverse) position when the power switch is placed in the READY to drive position, this may cause a sudden start which could result in an accident.**
- **On a hilly road, do not allow the vehicle to roll backwards while in the D (Drive) position or B position, or allow the vehicle to roll forward while in the R (Reverse) position. This may cause an accident.**

## ⚠ CAUTION

- **Do not slide the shift lever while pushing the P position switch. This may damage the electric motor.**
- **When switching to the preferred 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 damage the shift control system.**
- **Do not operate the shift lever while the accelerator pedal is depressed, except when switching to the B position. This may cause a sudden start which could result in an accident.**
- **The following operations are not allowed because the excessive force would influence the traction motor 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) or B position when reversing.**

  **If these operations are attempted, a chime sounds and the vehicle shifts to the N (Neutral) position.**

**P (Park):**




Use this shift position when the vehicle is parked or when placing the vehicle in the READY to drive position. Make sure that the vehicle is completely stopped before selecting the P (Park) position. **In order to switch to the P (Park) position, press the P position switch as shown in the illustration above. Apply the parking brake. If the P position switch is pressed while the vehicle is in motion, a chime sounds and the current shift position is maintained.** When parking on a hill, first depress the footbrake, apply the parking brake, and then press the P (Park) position switch.

**NOTE:**

- **While the vehicle is stationary, if the shift position is placed in any position other than the P (Park) position when the power switch is set to OFF, it will automatically switch to the P (Park) position.**
- **If the P position switch is pressed while sliding the shift lever, the shift position will not switch to the P (Park) position. When pressing the P position switch be sure to first allow the shift lever to return to its centre position.**

**R (Reverse):**

Use this position to reverse. Make sure that the vehicle is completely stopped before selecting the R (Reverse) position.

When the shift lever is in the R (Reverse) position, the rear view monitor will be activated. For details, see RearView monitor (where fitted) or Around View Monitor (where fitted) in the Display screen, heater and air conditioner (climate control system) section of this manual.

**N (Neutral):**

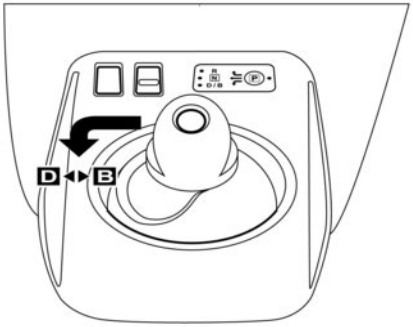
Neither forward nor reverse gear is engaged. The vehicle can be placed in the READY to drive position in this position.

Do not shift to the N (Neutral) position while driving. The regenerative braking system does not operate in the N (Neutral) position. However, you can stop the vehicle by depressing the footbrake pedal.

**D (Drive):**

Use this position for all normal forward driving.

**B:**




**Left Hand Drive models**

When the **B** position is used, more regenerative brake is applied when the accelerator pedal is released in comparison to the D (Drive) position. Less deceleration is provided by the regenerative brake system when the Li-ion battery is fully charged or the battery temperature is low.

## ECO MODE




**ECO mode switch**

The ECO mode helps reduce power consumption by reducing acceleration when compared to the same accelerator pedal position in the D (Drive) position. Use the ECO mode for maximum vehicle range and for city driving.

To turn on the ECO mode, push the ECO switch. The ECO mode indicator appears on the vehicle information display.

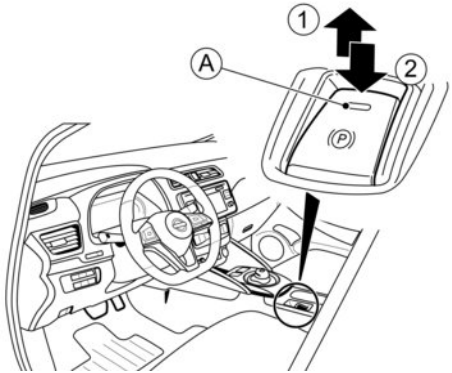
To turn off the ECO mode, push the ECO mode switch again. The ECO mode indicator will turn off.

- The selection of the ECO mode (ON or OFF) is retained even when the EV system is restarted.
- When the ECO mode is turned off, driving performance is changed. Before turning off the ECO mode, ensure it is safe to do so, release the accelerator pedal and operate the ECO switch.

- Turn off the ECO mode when acceleration is required, such as when:
  - driving with a heavy load of passengers or cargo in the vehicle.
  - driving on a steep uphill slope.
- When the cruise control (where fitted) or Intelligent Cruise Control (ICC) (where fitted) is operated, the vehicle makes it a priority to maintain a constant speed. The driving range will not be extended even if the ECO mode indicator appears.

# PARKING BRAKE

## ELECTRIC PARKING BRAKE (where fitted)




The electric parking brake can be applied or released by operating the parking brake switch.

**To apply:** Pull the switch up ① the indicator light Ⓐwill illuminate.

**To release:** With the power in the **ON** position, depress the brake pedal and push the switch down ②. The indicator light will turn off.

Before driving, check that the brake warning light (P) goes out. For additional information, see ☞ "Warning lights, indicator lights, and audible reminders" in the "2. Instruments and controls" section.

The parking brake does not apply automatically. If applied manually, the parking brake will automatically release when you press the accelerator with the shift lever in Drive (D) or Reverse (R), provided:

- The driver is wearing a seat belt, or
- The driver accelerates away within 5 seconds of shifting from Park (P) or Neutral (N) to Drive (D) or Reverse (R).

If you have tried to start driving the vehicle while not wearing a seat belt, you will need to put on your seat belt and place the shift lever in Drive (D) or Reverse (R) again before the parking brake will release automatically.

To keep the electric parking brake released after turning off the power, press the brake pedal and push the parking brake switch Ⓐ, before placing the power switch in the **OFF** position.

### ⚠ WARNING

- **Be sure the electric parking brake is released before driving. Failure to do so could cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**

- 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.
- Before leaving the vehicle, confirm that the vehicle is held by the parking brake.

**NOTE:**

- Do not start driving while the parking brake is applied this may cause the parking brake to overheat or reduce its effectiveness, which could result in an accident.
- A buzzer will sound if the vehicle is driven without releasing the parking brake. See "Parking brake reminder chime" in the "2. Instruments and controls" section.
- While the electric parking brake is applied or released, an operating sound is heard from the lower side of the rear seat. This is normal and does not indicate a malfunction.
- When the electric parking brake is frequently applied and released in a short period of time, the parking brake may not operate in order to prevent the parking brake system from overheating. If this occurs, operate the electric parking brake switch again after waiting approximately 1 minute.
- The electric parking brake can only be released with the power in the ON or Ready to drive position.
- If the electric parking brake must be applied while driving in an emergency, pull up and hold the parking brake switch. When you release the parking brake switch, the parking brake will be released.
- While pulling up the electric parking brake switch while driving, the parking brake is applied and a chime sounds. The parking brake indicator light in the meter and in the parking brake switch illuminate. This does not indicate a malfunction. The electric parking brake indicator lights in the meter and in the parking brake switch turn off when the parking brake is released.
- When pulling the electric parking brake switch up with the power in the OFF or ACC position, the parking brake switch indicator light will continue to illuminate for a short period of time.

**⚠ CAUTION**

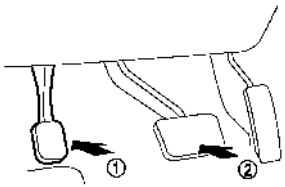
To park the vehicle in cold climates place the shift lever in Park (P), and place suitable chocks at both the front and back of a wheel with the electric parking brake released. If the electric parking brake is applied in cold climates, the brake may become frozen and cannot be released.

## MANUAL PARKING BRAKE (where fitted)

The parking brake can be applied or released by operating the parking brake pedal.

**⚠ WARNING**

- Be sure the parking brake is released before driving. Failure to do so could cause brake failure and lead to an accident.
- Do not release the parking brake from outside the vehicle.
- 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.
- When leaving the vehicle, apply the parking brake and push the P (Park) position switch on the shift lever.
- Do not release the footbrake pedal until the parking brake is fully applied. Failure to do so may cause the vehicle to move suddenly, which could result in an accident.



**To apply:** Firmly depress the parking brake pedal ①.

**To release:**

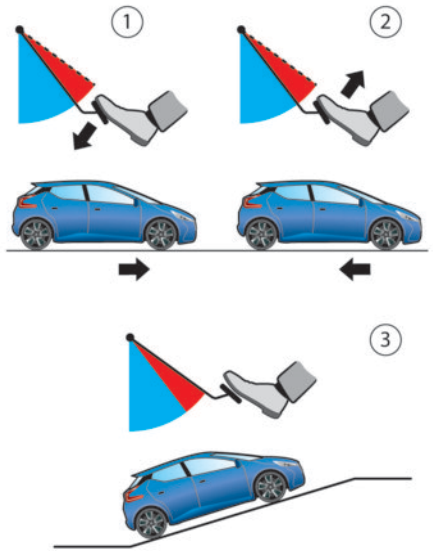
1. Firmly apply the footbrake pedal ②.
2. Firmly depress and then release the parking brake pedal ① to release the parking brake.
3. Before driving, make sure that the parking brake warning light ( ) in the meter has turned off.

## E-PEDAL SYSTEM

**⚠ WARNING**

**Never rely solely on the e-Pedal system, as there is a performance limit to the system function. Always drive carefully and attentively. The brake pedal should be operated to slow or stop the vehicle, depending on traffic or road conditions.**

The e-Pedal system enables the driver to slow or stop the vehicle, or to keep the vehicle stopped, by operating only the accelerator pedal. This helps assist the driver to save the steps of changing his/her foot on between the accelerator pedal and the brake pedal.



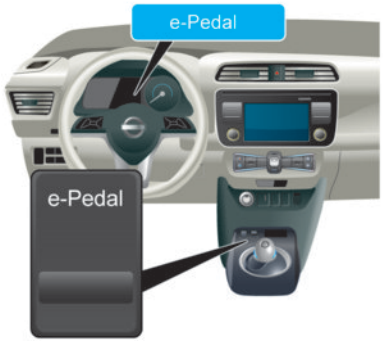

① Acceleration

② Deceleration (instead of brake pedal)

③ Making a stop (instead of brake pedal)

## E-PEDAL SYSTEM OPERATION

When the e-Pedal system is activated, the regenerative brake is enhanced and the driver can adjust the vehicle speed by only depressing or returning the accelerator pedal. When you release (take your foot off) the accelerator pedal, the vehicle slows down and comes to a stop smoothly without depressing the brake pedal. After a stop, the vehicle is held stationary automatically.




The e-Pedal system will be turned **ON** or **OFF** each time the e-Pedal switch is pulled. (The e-Pedal indicator in the Vehicle Information Display shows the status of the e-Pedal system.)

When the e-Pedal system is activated, the characteristics of the accelerator pedal change significantly and the accelerator pedal operates differently than a conventional one operates. Be sure to confirm the status of the e-Pedal system (**ON** or **OFF**) in the Vehicle Information Display before driving.

### System Activation

To activate the e-Pedal system, place the power switch in the **READY to drive** or **ON** position and pull the e-Pedal switch located on the centre console.

### System Deactivation

To deactivate the e-Pedal system, with the power switch in the **READY to drive** or **ON** position, depress the brake pedal and pull the e-Pedal switch.

To turn the e-Pedal system **OFF** while the vehicle is kept stopped by the e-Pedal system, depress the brake pedal and then pull the e-Pedal switch.

If the brake pedal is not depressed when the e-Pedal system switch is operated, a reminder message will be shown in the Vehicle Information Display.

**NOTE:**

- **When the e-Pedal system is switched to ON or OFF, the degree of vehicle deceleration will change.**
- **The e-Pedal system is automatically turned OFF when the EV system is restarted.**
- **To keep the e-Pedal system activated even if the EV system is restarted, turn the [Mode Memory] ON in the [Settings] menu of the Vehicle Information Display. (See, ☞ "Vehicle Information Display" in the "2. Instruments and controls" section.)**
- **The [Mode Memory] setting is not reset by using the [Factory Reset] setting.**

### e-Pedal driving features

The e-Pedal system provides the following driving features:

**When driving and stopping the vehicle:**

- Depressing or returning the accelerator pedal will change the degree of acceleration and deceleration accordingly.
- Returning the accelerator pedal generates more deceleration than normal. (The maximum deceleration changes according to the vehicle speed.)
- Releasing (taking your foot off) the accelerator pedal reduces the vehicle speed until the vehicle comes to a stop.
- The vehicle's stop lights illuminate when the deceleration level reaches an ordinary braking operation.

If the deceleration is not sufficient when the accelerator pedal is returned or released, depress the brake pedal. The brake pedal can be operated to reduce the vehicle speed in the same way as normal even when the e-Pedal system is activated.

**When restarting the vehicle:**

- After the vehicle has come to a stop by the e-Pedal system function, the vehicle is kept stopped as long as releasing (taking your foot off) the accelerator pedal.
- The vehicle's stop lights remain illuminated while the vehicle is kept stopped by the e-Pedal system.

- Depress the accelerator pedal to start the vehicle again from a stop.

When the vehicle needs to be stopped for a certain period of time, place the vehicle in the **P** (Park) position and apply the parking brake.

**⚠ CAUTION**

**When the e-Pedal system is turned OFF, remember to depress the brake pedal firmly to prevent the vehicle from moving with the shift position in other than P (Park) or N (Neutral).**

**When backing up the vehicle:**

With the shift position in the **R** (Reverse), operating the accelerator pedal can adjust the vehicle speed (acceleration, deceleration and a stop) in the same way as in the **D** (Drive) position.

**Other driving tips for the e-Pedal system:**

- For smooth deceleration when the e-Pedal system is activated, it is recommended to adjust the accelerator pedal while driving with your foot on it (depressing or returning, but not releasing).
- Shifting the shift position from **D** (Drive) to **B** or from **B** to **D** will not affect the e-Pedal system feature.
- The e-Pedal system will not function under the following conditions:
  - When the vehicle is placed in the **P** (Park) or **N** (Neutral) position.
  - When the cruise control (where fitted), Intelligent Cruise Control (ICC) (where fitted), ProPILOT (where fitted) or Intelligent Emergency Braking (IEB) with pedestrian detection system is operated.

## E-PEDAL SYSTEM LIMITATIONS

**⚠ WARNING**

**Listed below are the system limitations for the e-Pedal system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **If [Press brake pedal to prevent rolling] warning message appears in the Vehicle Information Display, depress the brake pedal. The vehicle may start moving.**
- **If the deceleration force provided by the e-Pedal system is not sufficient, depress the brake pedal.**
- **If the vehicle starts to move while it is stopped by the e-Pedal system, depress the brake pedal immediately.**
- **Under the following conditions, place the vehicle in the P (Park) position and make sure the parking brake is securely applied. The vehicle may start moving suddenly.**
  - **When getting in and out of the vehicle.**
  - **When loading and unloading the vehicle.**
  - **When stopping the vehicle for a long period of time.**
- **Under the following conditions the e-Pedal system may not decelerate or stop the vehicle sufficiently. Depress the brake pedal whenever necessary.**
  - **When excessively heavy baggage is loaded in the vehicle.**
  - **When driving on steep downhill roads.**
  - **When driving on icy roads.**
- **On a slope, the e-Pedal system may not stop the vehicle completely or may not keep the vehicle stopped. Depress the brake pedal whenever necessary.**

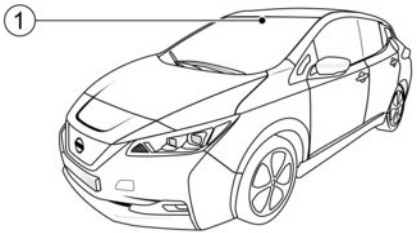
**⚠ CAUTION**

- **Turn the e-Pedal system OFF and place the vehicle in the N (Neutral) position under the following conditions:**
  - **When the vehicle enters an automatic car wash.**
  - **When the vehicle is towed.**
- **Be careful not to operate the e-Pedal switch mistakenly or unintentionally.**

## E-PEDAL SYSTEM MALFUNCTION

If the e-Pedal system malfunctions, [e-Pedal system failure! Press brake pedal to slow or stop] warning message appears in the Vehicle Information Display. When the warning message appears, the e-Pedal system will be turned off automatically. Have the system checked as soon as possible by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## LANE DEPARTURE WARNING (LDW) SYSTEM (where fitted)




The LDW system will operate when the vehicle is driven at approximately 60 km/h (37 MPH) and above, and only when the lane markings are clearly visible on the road:

The LDW system monitors the lane markers on the travelling lane using the camera unit ① located above the inside mirror.

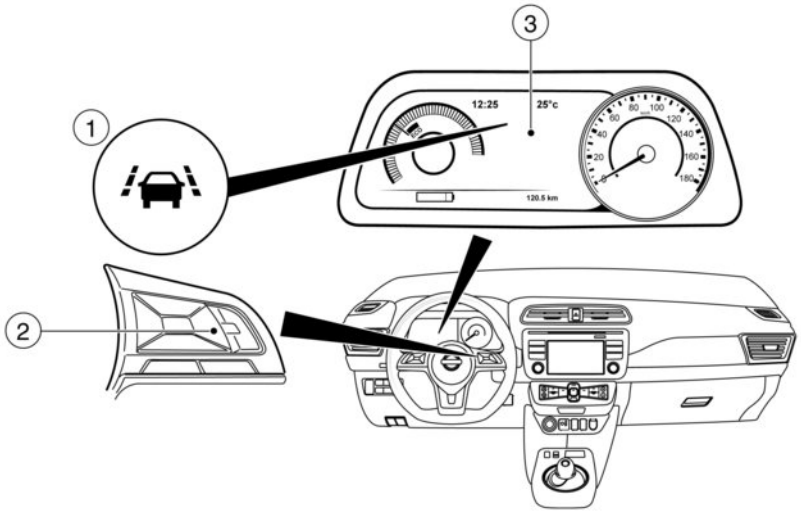
The LDW system warns the driver with a LDW indicator on the Vehicle Information Display and steering vibration that the vehicle is beginning to leave the travelling lane.

### ⚠ WARNING

**Listed below are the system limitations for the Lane Departure Warning system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The LDW system is only a warning device to help 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 travelling lane, and be in control of the vehicle at all times.**

## LDW SYSTEM OPERATION




① LDW indicator (on the Vehicle Information Display)

② Steering-wheel-mounted controls

③ Vehicle Information Display

The LDW system provides a lane departure warning function when the vehicle is driven at speeds of approximately 60 km/h (37 MPH) and above, and the lane markings are clear.

When the vehicle approaches either the left or the right side of the travelling lane, the steering wheel will vibrate and the LDW indicator on the Vehicle Information Display will blink to alert the driver.

The warning function will stop when the vehicle returns inside of the lane markers.

### LDW system Activation/Deactivation

Perform the following steps to enable or disable the LDW system.

1. In the [Settings] menu, select the [Driver Assistance] key.
2. Select the [Lane] submenu by pressing **<OK>**.
3. A mark next to [Lane Departure Warning] indicates that the system is turned **ON**.

**NOTE:**
**If you turn the LDW system off using the [Settings] menu, the system will remain turned off the next time you start the vehicle's EV system.**

**⚠ WARNING**

**Listed below are the system limitations for the Lane Departure Warning system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The system will not operate at speeds below approximately 60 km/h (37 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 tyre conditions (for example, tyre wear, low tyre pressure, installation of spare tyre, tyre 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 travelling lane merges or separates.**
  - **When the vehicle's travelling direction does not align with the lane marker.**
  - **When travelling 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 windscreen 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.)**

## LDW TEMPORARY DISABLED STATUS

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 [Not available: High cabin temperature] message will appear in the Vehicle Information Display.

When the interior temperature is reduced, the LDW system will resume operating automatically and the LDW indicator will stop flashing.

The LDW system is not designed to warn under the following conditions:

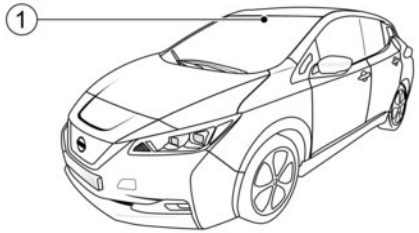
- When you operate the lane change signal and change travelling lanes in the direction of the signal. (The LDW system will become operational again approximately two seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 60 km/h (37 MPH).

After the above conditions have finished and the necessary operating conditions are satisfied, the LDW system will resume.

## LDW MALFUNCTION

When the LDW system malfunctions, it will cancel automatically and the [System fault] message will appear in the Vehicle Information Display. If the [System fault] message appears in the Vehicle Information Display pull off the road in a safe location, turn off and restart the EV system. If the [System fault] message continues to appear in the Vehicle Information Display, have the LDW system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

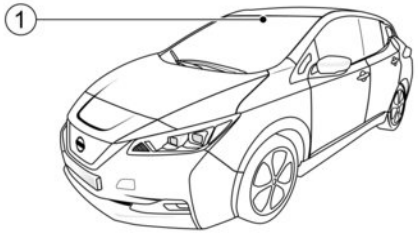
## MULTI-SENSING CAMERA UNIT MAINTENANCE




The lane camera unit ① for the LDW system is located above the interior rear vier mirror. To maintain the proper operation of the LDW system and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen 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 detection capability.
- 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, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## INTELLIGENT LANE INTERVENTION SYSTEM (where fitted)




**⚠ WARNING**

**Failure to follow the warnings and instructions for proper use of the Intelligent Lane Intervention (ILI) system could result in serious injury or death.**

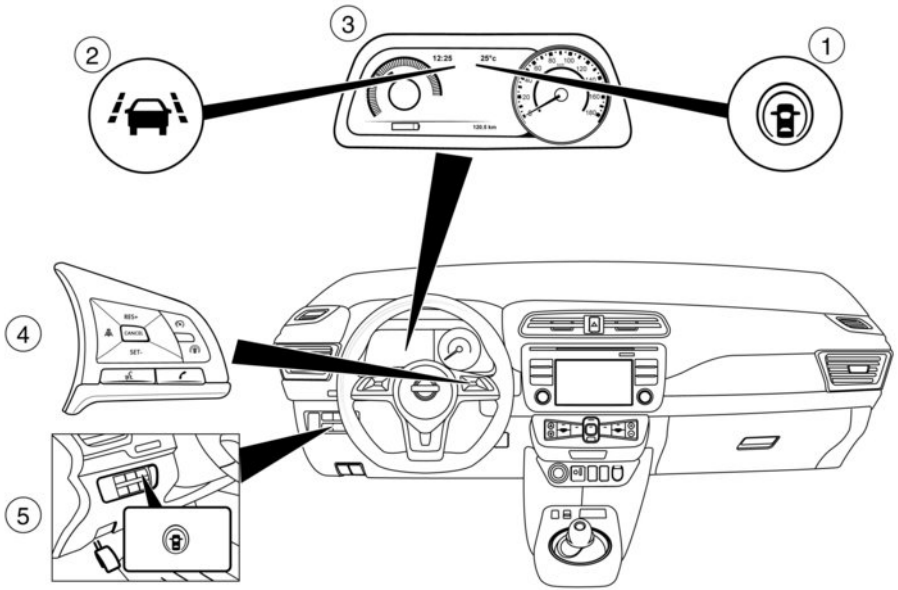
- **The ILI system will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the travelling lane, and be in control of the vehicle at all times.**
- **The ILI system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers in certain road, weather, or driving conditions.**

The ILI system must be turned on with the ILI switch every time the power switch is placed in the **ON** position.

The ILI system will operate when the vehicle is driven at approximately 60 km/h (37 MPH) and above, and only when the lane markings are clearly visible on the road.

The ILI system warns the driver when the vehicle has left the centre of the travelling lane with a ILI indicator on the Vehicle Information Display and steering vibration. The system helps assist the driver to return the vehicle to the center of the travelling lane by applying the brakes to the left or right wheels individually (for a short period of time).

The ILI system monitors the lane markers on the travelling lane using the camera unit ① located above the inside mirror




① ILI ON indicator (on the Vehicle Information Display)

② ILI indicator (on the Vehicle Information Display)

③ Vehicle Information Display

④ Steering-wheel-mounted controls

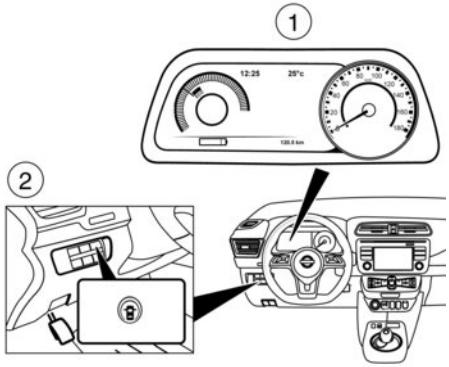
⑤ ILI switch

## INTELLIGENT LANE INTERVENTION SYSTEM OPERATION

The ILI system operates above approximately 60 km/h (37 MPH).

When the vehicle approaches either the left or the right side of the travelling lane, the steering wheel will vibrate and the ILI indicator (orange) on the Vehicle Information Display will blink to alert the driver. Then, the ILI system will automatically apply the brakes for a short period of time to help assist the driver to return the vehicle to the center of the travelling lane.

## INTELLIGENT LANE INTERVENTION ACTIVATION/DEACTIVATION




① Vehicle Information Display

② ILI switch

### ILI switch

To turn on the ILI system, push the ILI switch on the instrument panel after starting the EV system.

The ILI ON indicator on the Vehicle Information Display will appear. Push the ILI switch again to turn off the ILI system. The ILI ON indicator on the Vehicle Information Display will turn off.

The Intelligent Lane Intervention system will be automatically turned off when the power switch is placed in the **OFF** position.

**NOTE:**
**When the speed limiter or ProPILOT system is activated the ILI system will be turned on automatically.**

## LIMITATIONS

**⚠ WARNING**

**Listed below are the system limitations for the Intelligent Lane Intervention system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The ILI system may activate if you change lanes without first activating your turn signal or, for example, if a construction zone directs traffic to cross an existing lane marker. If this occurs you may need to apply corrective steering to complete your lane change.**
- **Because the ILI may not activate under the road, weather and lane marker conditions described in this section, it may not activate every time your vehicle begins to leave the travelling lane and you will need to apply corrective steering.**
- **When the ILI system is operating, avoid excessive or sudden steering manoeuvres, otherwise you could lose control of the vehicle.**
- **The ILI system will not operate at speeds below approximately 60 km/h (37 MPH), or if it cannot detect lane markers.**
- **Do not use the ILI 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 tyre conditions (for example, tyre wear, low tyre pressure, installation of spare tyre, tyre chains, non-standard wheels).**
- **When the vehicle is equipped with non-original brake parts or suspension parts.**
- **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 ILI system could detect these items as lane markers.)**
- **On roads where the travelling lane merges or separates.**
- **When the vehicle's travelling direction does not align with the lane marker.**
- **When travelling 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 windscreen 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.)**

**NOTE:**
**While the ILI system is operating, you may hear a sound of brake operation. This is normal and indicates that the ILI system is operating properly.**

## ILI TEMPORARY UNAVAILABLE

**Condition A:**

The warning and assist functions of the ILI system are not designed to work under the following conditions:

- When you operate the lane change signal and change the travelling lanes in the direction of the signal. (The ILI system will be deactivated for approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 60 km/h (37 MPH).

After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

**Condition B:**

The assist function of the ILI system is not designed to work under the following conditions (warning is still functional):

- When the brake pedal is depressed.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the vehicle is accelerated during the ILI system operation.
- When the Intelligent Cruise Control (ICC) approach warning occurs.
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.

After the above conditions have finished and the necessary operating conditions are satisfied, the ILI system application of the brakes will resume.

**Condition C:**

If the following messages appear in the Vehicle Information Display, a chime will sound and the ILI system will be turned off automatically.

- [Not Available Poor Road Conditions]:
  When the ESP system (except Traction Control System (TCS) function) or ABS operates.
- [Currently not available]:
  When the ESP system is turned **OFF**.

When the above conditions no longer exist, turn off the ILI system. Push the ILI switch again to turn the ILI system back on.

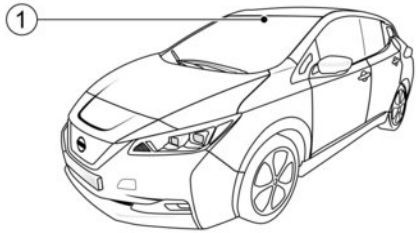
**Temporary disabled status at high temperature:**

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 40 ºC (104 ºF)) and then the ILI system is turned on, the ILI system may be deactivated automatically and the following message will appear on the Vehicle Information Display: [Not available High cabin temperature] When the interior temperature is reduced, the system will resume operating automatically.

## SYSTEM MALFUNCTION

When the ILI system malfunctions, it will cancel automatically and the [System fault] message will appear in the Vehicle Information Display. If the [System fault] message appears in the Vehicle Information Display pull off the road in a safe location, turn off and restart the EV system. If the [System fault] message continues to appear in the Vehicle Information Display, have the ILI system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## MULTI-SENSING CAMERA UNIT MAINTENANCE

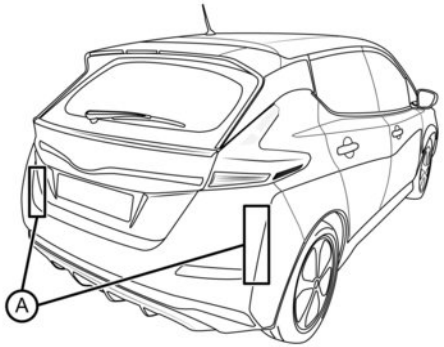



The lane camera unit ① for the ILI system is located above the interior rear vier mirror. To maintain the proper operation of the ILI system and prevent a system malfunction, be sure to observe the following:

- Always keep the windscreen 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 detection capability.
- 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, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## BLIND SPOT WARNING (BSW) SYSTEM (where fitted)

While driving, the Blind Spot Warning (BSW) system helps alert the driver to the presence of other vehicles in adjacent lanes.



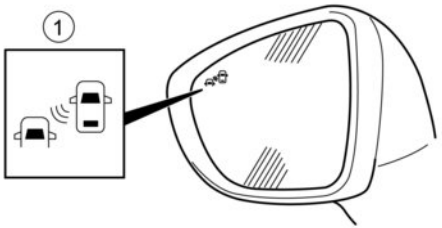

The BSW system uses radar sensors Ⓐ installed near the rear bumper to detect other vehicles in an adjacent lane.

### ⚠ WARNING

**Listed below are the system limitations for the Blind Spot Warning system. Failure to operate the vehicle in accordance with these system limitations 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 driving, always use the side and rear mirrors and always turn your head and look in the direction you will move to ensure it is safe to change lanes. Never rely solely on the BSW system.**

### BSW SYSTEM OPERATION




**Blind Spot Indicator light on the outside mirrors**

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) and the side indicator light flashes. The side indicator light continues to flash until the detected vehicle leaves the detection zone.

The side indicator light illuminates for a few seconds when the power is placed in the **ON** position.

The brightness of the side indicator light can be adjusted in the Vehicle Information Display, see ☞ "Vehicle Information Display" in the "2. Instruments and controls" section.

If a vehicle comes into the detection zone after the driver activates the turn signal, then only the side indicator light flashes and no chime sounds. For additional information, see ☞ "BSW driving situations" later in this section.

### Turning the BSW system on or off

Turning the BSW system on or off is done using the [Settings] menu in the vehicle information display.

For details. see ☞ "Vehicle Information Display" in the "2. Instruments and controls" section.

In the [Settings] menu, select the [Driver Assistance] key. Then select [Driving Aids]. Select the [Blind Spot] submenu by pressing **<OK>**. A check mark next to [Warning] indicates that the system is turned on.

**NOTE:**
**When enabling/disabling the system, the system will retain the current settings even if the EV system is restarted.**

### ⚠ 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 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 travelling close together.**
- **The radar sensors' 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 operating condition.**
- **The following conditions may reduce the ability of the radar to detect other vehicles:**
  - **Severe weather**
  - **Road spray**
  - **Ice/frost/snow build-up on the vehicle**
  - **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:**

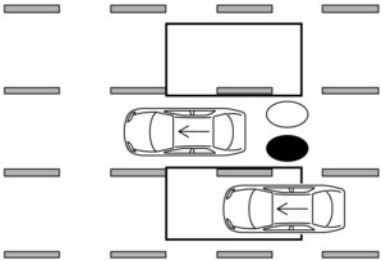


**Illustration 1 Approaching from behind**

**Illustration 1:** The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

**Overtaking another vehicle:**

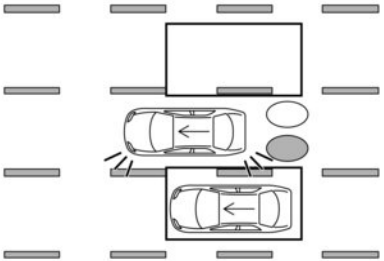


**Illustration 2 Approaching from behind**

**Illustration 2:** If the driver activates the turn signal when another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light flashes.

**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 will flash but no chime will sound when the other vehicle is detected.**

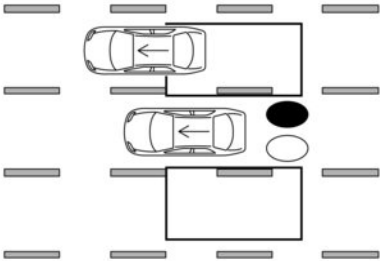


**Illustration 3 Overtaking another vehicle**

**Illustration 3:** The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 2 seconds.

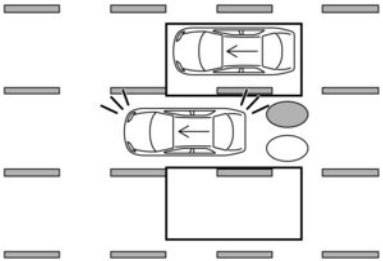


**Illustration 4 Overtaking another vehicle**

**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 flashes.

**NOTE:**

- **When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are travelling 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 will flash but no chime will sound when the other vehicle is detected.**

**Entering from the side:**

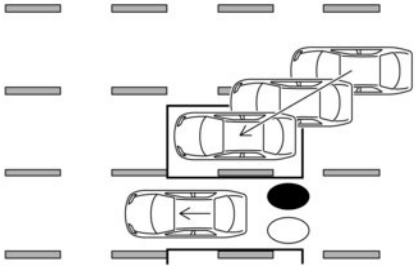


**Illustration 5 Entering from the side**

**Illustration 5:** The side indicator light illuminates if a vehicle enters the detection zone from either side.

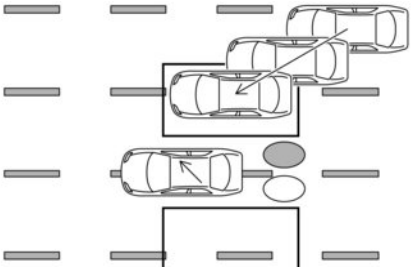


**Illustration 6 Entering from the side**

**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 flashes.

**NOTE:**

- **If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.**
- **The radar sensors may not detect a vehicle which is travelling at about the same speed as your vehicle when it enters the detection zone.**

## BSW TEMPORARY DISABLED STATUS

When radar blockage is detected, the BSW system will be turned off automatically, a chime will sound and a 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.

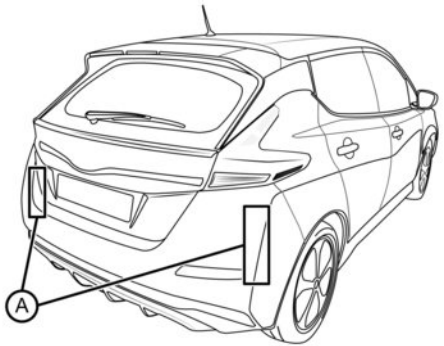
## SYSTEM MALFUNCTION

When the BSW system malfunctions, it will be turned off automatically and a warning message will appear in the Vehicle Information Display.

Action to take:

Stop the vehicle in a safe location, turn off and restart the EV system. If the message continues to appear, have the BSW system checked by a NISSAN dealer or qualified workshop.

## SYSTEM MAINTENANCE




The two radar sensors Ⓐ for the BSW system are located near the rear bumper.

To keep the BSW system operating properly, be sure to observe the following:

- 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. If the area around the radar sensors is damaged due to an accident, it is recommended that you visit a NISSAN dealer or qualified workshop.

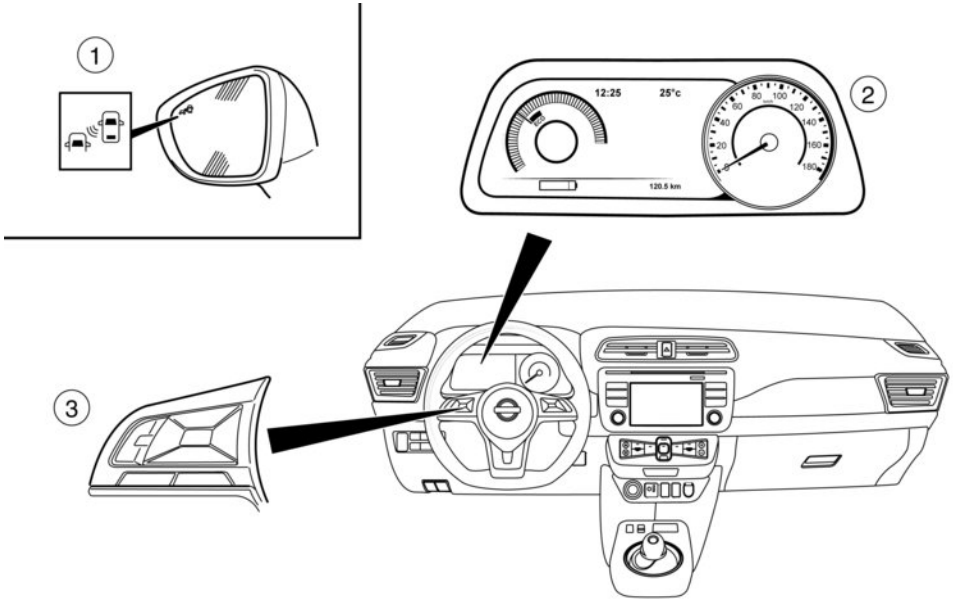
## REAR CROSS TRAFFIC ALERT (RCTA) SYSTEM (where fitted)

**⚠ 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 reversing 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 reversing out of a parking space. When the vehicle is in reverse, the system is designed to detect other vehicles approaching from the right or left of the vehicle. If the system detects cross traffic, it will alert you.




① Side indicator light

② Vehicle Information Display

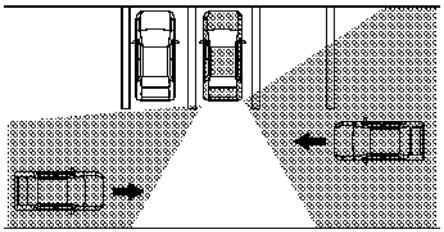
③ Steering-wheel-mounted controls (left side)

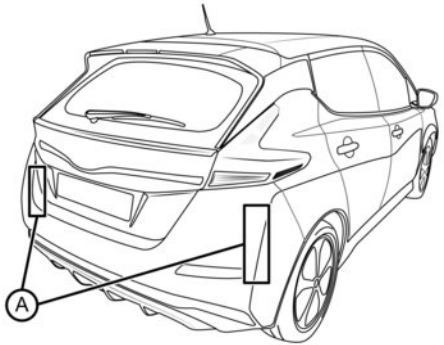
## RCTA SYSTEM OPERATION

The RCTA system can help alert the driver of an approaching vehicle when the driver is reversing out of a parking space.

When the shift position is in R (Reverse) and the vehicle speed is less than approximately 8 km/h (5 MPH), the RCTA system is operational.

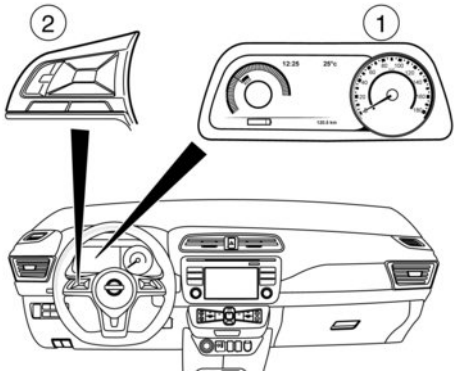
If the radar detects an approaching vehicle from either side, the system chimes (once) and the side indicator light flashes on the side the vehicle is approaching from.






The RCTA system uses radar sensors Ⓐ installed on both sides near the rear bumper to detect an approaching vehicle.

The radar sensors Ⓐ can detect an approaching vehicle from up to approximately 20 m (66 ft) away.




① Vehicle Information Display

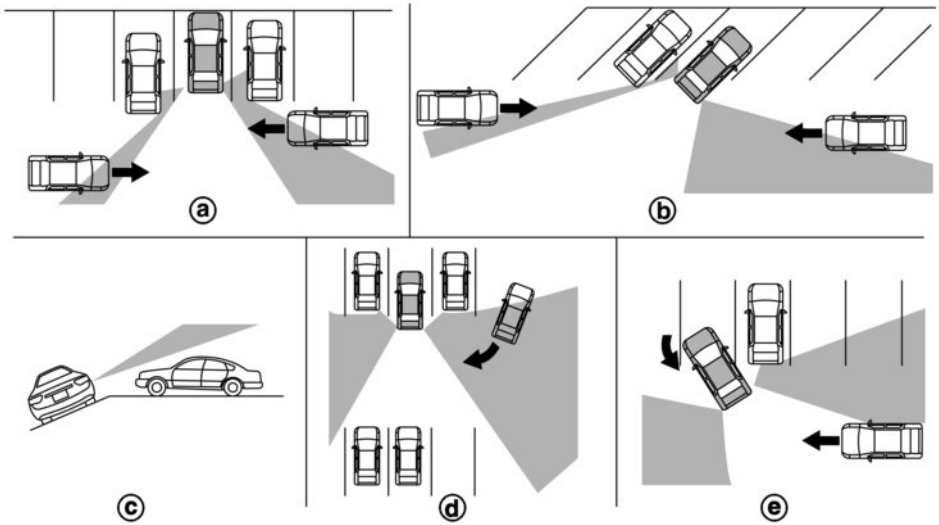
② Steering-wheel-mounted controls (left side)

## HOW TO ENABLE/DISABLE THE RCTA SYSTEM

Perform the following steps to enable or disable the RCTA system.

1. Press the ◀ or ▶ button until [Settings] displays in the Vehicle Information Display and then press the <OK> button. Use the ▲ and ▼ buttons to select [Driver Assistance]. Then press the <OK> button.
2. Select [Parking Aids] and press the <OK> button.
3. To set the RCTA system to on or off, use the ▲ and ▼ buttons to navigate the menu and use the <OK> button to select or change an item.
   - To turn on the RCTA system, use the <OK> button to check the box for [Cross Traffic].

**NOTE:**
**When enabling/disabling the system, the system setting will be retained even if the EV system 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 reversing. 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 the 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.**

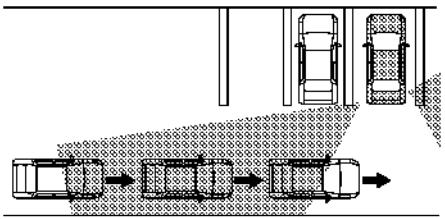


**Illustration 1**

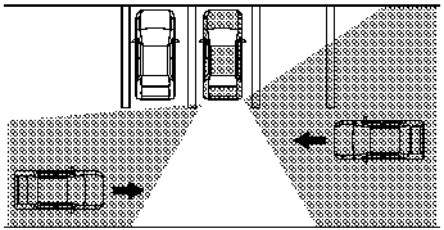
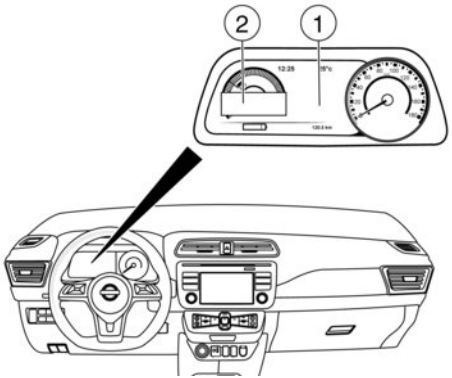


**Illustration 2**

**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.**




① Vehicle Information Display

② Warning message area

## 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 warning message area ② of the Vehicle Information Display①.

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

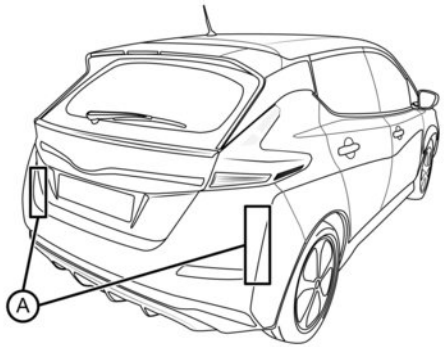
When the RCTA system malfunctions, it will turn off automatically. The [System fault] warning message will appear in the Vehicle Information Display.

**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 EV system off and restart the EV system. If the message continues to appear, have the system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## SYSTEM MAINTENANCE




The two radar sensors Ⓐ for the RCTA systems 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer if the area around the radar sensors is damaged due to a collision.

For the radio approval numbers and information, see "Radio frequency approval" in the "9. Technical information" section.

# CRUISE CONTROL (where fitted)

**⚠ WARNING**

- **Always observe the posted speed limits and do not set the speed over them.**
- **Do not use the cruise control when driving under the following conditions. Doing so could cause a loss of vehicle control and result in an accident.**
  - **When it is not possible to keep the vehicle at a constant speed**
  - **When driving in heavy traffic**
  - **When driving in traffic that varies speed**
  - **When driving in windy areas**
  - **When driving on winding or hilly roads**
  - **When driving on slippery (rain, snow, ice, etc.) roads**

## PRECAUTIONS ON CRUISE CONTROL

- The cruise control system will be automatically cancelled when there is a malfunction. Have the system checked by a NISSAN dealer or qualified workshop.
- Even if the ECO mode is turned on, the driving range cannot be extended while operating the cruise control.
- If the motor coolant temperature becomes excessively high, the cruise control system will be cancelled automatically.
- To properly set the cruise control system, use the following procedures.

## CRUISE CONTROL OPERATIONS

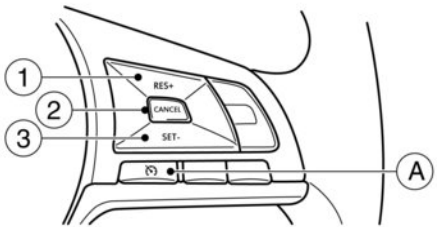
The cruise control allows driving at speeds above 40 km/h (25 MPH) without keeping your foot on the accelerator pedal.

The cruise control will automatically be cancelled if the vehicle slows down more than approximately 13 km/h (8 MPH) below the set speed.

Moving the shift lever to the N (Neutral) position will cancel the cruise control.

Depressing the brake pedal will cancel the cruise control and the cruise control indicator will turn off.

The cruise control operation switches are located on the steering wheel (right hand side).




1 <RES +> switch (resume)

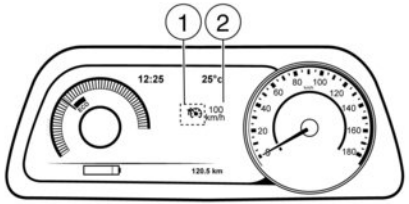
2 <CANCEL> switch

3 <SET –> switch

A Cruise control MAIN ON/OFF switch

(When this switch is pushed, the cruise control enters the standby mode. If the speed limiter is on, the system will turn off and the cruise control enters the standby mode.)

## Cruise control display and indicators




① Cruise control indicator

② Set speed value

## Turning the cruise control system on

Push the cruise control main switch Ⓑ. The cruise control indicator ① appears together with the last set speed value (or — — —) ② in the Vehicle Information Display.

## Setting a cruising speed

1. Accelerate to the desired cruising speed.
2. Press the <SET –> switch ③ and release it.
3. The cruise control indicator appears in green together with the set speed value (desired cruising speed) in the Vehicle Information Display.
4. Take your foot off the accelerator pedal.

The vehicle will maintain the set speed.
**If the vehicle speed is less than the minimum set speed, it will not be possible to set the cruise control system.**

## Changing a cruising speed

Use any one of the following methods to change the cruising speed.

- Slow the vehicle as normal using the footbrake pedal.
  When the vehicle reaches the desired cruising speed, push and release the <SET –> switch ③.
  The new set speed value will be displayed in the top of the Vehicle Information Display.
- Press the accelerator pedal.
  When the vehicle reaches the desired cruising speed, push and release the <SET –> switch ③.
  The new set speed value will be displayed in the top of the Vehicle Information Display.
- Press the <RES +> ① switch to increase, or the <SET –> switch ③ to decrease, the set speed in steps of 1 km/h (1 MPH).
  The new set speed value will be displayed in the top of the Vehicle Information Display.
- Press and hold the <RES +> ① switch to increase, or the <SET –> switch ③ to decrease.
  When the desired cruising speed is reached, release the switch.
  The new set speed value will be displayed in the top of the Vehicle Information Display.

## Cancelling the cruise control system

To cancel a set speed limit, push the <CANCEL> switch.
The set speed value in the Vehicle Information Display will change to white.
The cruise control system will also be cancelled automatically by any of the following:

- Pressing the brake pedal.
- If the vehicle slows down more than approximately 13 km/h (8 MPH) below the set speed.

## Resuming a previous cruising speed

If the cruising speed has been cancelled, the last set speed value will be stored in the cruise control system memory. This cruising speed can be reactivated by pressing the <RES +> switch ①.
**If the vehicle speed is less than the minimum set speed, it will not be possible to resume the previously set cruising speed.**
**Pressing the <CANCEL> switch prevents resuming the previously set cruising speed.**

### Turn the cruise control system off

The cruise control system will be turned off when one of the following operations is performed:

- Push the Cruise control MAIN ON/OFF switch Ⓑ.
  The cruise control symbol ④ and the set speed value ⑤ will disappear from the top of the Vehicle Information Display.
- When the vehicle is stopped and the power is placed in the **LOCK** or **OFF** position.

**Turning off the cruise control system will erase the cruise control system memory.**

**⚠ WARNING**

**Failure to follow the warnings and instructions for proper use of the ICC system could result in serious injury or death.**

- **ICC is not a collision avoidance or warning device. For motorway use only and it is not intended for congested areas or city driving. Failure to apply the brakes could result in an accident.**
- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **Always observe the posted speed limits and do not set the speed over them.**
- **Always drive carefully and attentively when using either cruise control mode. Read and understand the Owner's Manual thoroughly before using the cruise control. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use cruise control except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

The ICC system will maintain a constant set speed or keep a set distance from the vehicle in front of you up to the preset speed.

The vehicle travels at the 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.

## CRUISE CONTROL OPERATIONS

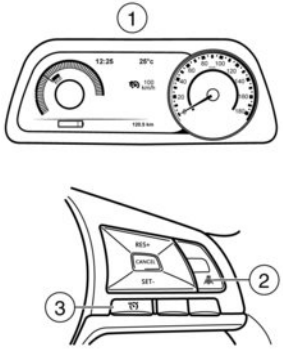
Push the Cruise ON/OFF switch ③ to choose the cruise control mode between the vehicle-to-vehicle distance control mode and the conventional (fixed speed) cruise control mode.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the Cruise ON/OFF switch ③ once to turn the system **OFF**. Then push the Cruise ON/OFF switch ③ again to turn the system back on and select the desired cruise control mode.

Always confirm the setting of the ICC system in the Vehicle Information Display.

For the vehicle-to-vehicle distance control mode, see ☞ "Selecting the vehicle-to-vehicle distance control mode" later in this section.

For the conventional (fixed speed) cruise control mode, see "Conventional (fixed speed) cruise control mode" later in this section.




1 Displays and indicators

2 ICC switches

3 Cruise ON/OFF switch

## HOW TO SELECT CRUISE CONTROL MODES

### Selecting the vehicle-to-vehicle distance control mode

To choose the vehicle-to-vehicle distance control mode, quickly push and release the Cruise ON/ OFF switch.

### Selecting the conventional (fixed speed) cruise control mode

To choose the conventional (fixed speed) cruise control mode, push and hold the Cruise ON/ OFF switch for longer than approximately 1.5 seconds.

## VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

In the vehicle-to-vehicle distance control mode, the ICC system automatically maintains a selected distance from the vehicle travelling in front of you according to that vehicle's speed (up to the set speed), or at the set speed when the road ahead is clear.

The system is intended to enhance the operation of the vehicle when following a vehicle travelling 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.

### Vehicle-to-vehicle distance control mode operation

The vehicle-to-vehicle distance control mode is designed to maintain a selected distance and reduce the speed to match the slower vehicle ahead; the system will decelerate the vehicle as necessary 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 travelling lane ahead or if a vehicle travelling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

The system will cancel and a warning chime will sound if the speed is below approximately 25 km/h (15 MPH) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed.

The following items are controlled in the vehicle-to-vehicle distance control mode:

- When there are no vehicles travelling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is between 30 and 144 km/h (20 and 90 MPH).
- When there is a vehicle travelling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by driver, from the vehicle ahead. The adjusting speed range is 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 travelling 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.

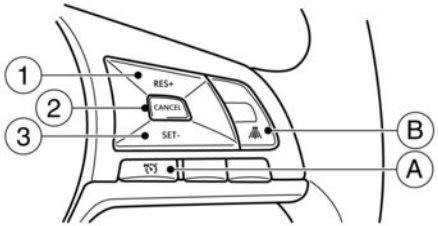
When driving on the freeway at a set speed and approaching a slower travelling vehicle ahead, the ICC system will adjust the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate and maintain the speed up to the set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

## Vehicle-to-vehicle distance control mode switches

The system is operated by a CRUISE ON/OFF switch and four control switches, all mounted on the steering wheel.




1 <RES/+> switch:

Resumes set speed or increases speed incrementally.

2 <CANCEL> switch:

Deactivates the system without erasing the set speed.

3 <SET/-> switch:

Sets desired cruise speed, reduces speed incrementally.

A CRUISE ON/OFF switch:

Main switch to activate/deactivate the system.

B Distance switch:

Changes the vehicle's following distance:

- Long
- Middle
- Short

## Vehicle-to-vehicle distance control mode display and indicators

The display is located in the Vehicle Information Display.

1. This indicator indicates the ICC system status depending on a colour.
   - ICC system **ON** indicator (grey):
     Indicates that the Cruise ON/OFF switch is **ON**.
   - ICC system **ON** indicator (green):
     Indicates that cruising speed is set
   - ICC system **ON** indicator (yellow):
     Indicates that there is a malfunction in the ICC system.
2. Set distance indicator:

   Displays the selected distance between vehicles set with the DISTANCE switch.
3. Set vehicle speed indicator:

   Indicates the set vehicle speed.
4. Vehicle ahead detection indicator:

   Indicates whether it detects a vehicle in front of you.

## Vehicle-to-vehicle distance control mode activation

To turn on the cruise control, quickly push and release the CRUISE ON/OFF switch. The ICC system **ON** indicator (grey), set distance indicator and set vehicle speed indicator come on in a standby state.

To set cruising speed, accelerate your vehicle to the desired speed, push the <SET/-> switch and release it. (The ICC system set indicator (green), vehicle ahead detection indicator, set distance indicator and set vehicle speed indicator come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

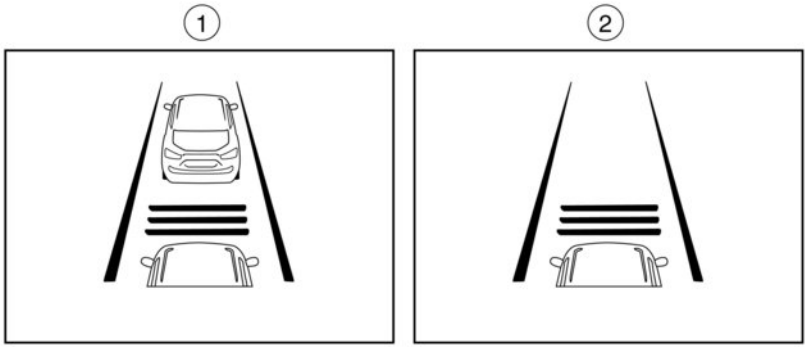
When the <SET/-> switch is pushed under the following conditions, the system cannot be set and the ICC indicators will blink for approximately 2 seconds:

- When travelling below 30 km/h (20 MPH) and the vehicle ahead is not detected.
- When the shift lever is not in the D (Drive) position.
- When the parking brake is applied.
- When the brakes are operated by the driver.

When the <SET/-> switch is pushed under the following conditions, the system cannot be set.

A warning chime will sound and a message will pop up:

- When the ESP system is off (To use the ICC system, turn on the ESP system. Push the CRUISE ON/OFF switch to turn off the ICC system and reset the ICC system by pushing the CRUISE ON/OFF switch again.) For additional information about the ESP system, see "Electronic stability programme (ESP) system" later in this section.
- When ESP (including the traction control system) is operating.
- When a wheel is slipping (To use the ICC system, make sure the wheels are no longer slipping.)




1 System set display with vehicle ahead

2 System set display without vehicle ahead

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.

**NOTE:**

- **The brake 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 under approximately 25 km/h (15 MPH), the system will be cancelled.

**When passing another vehicle,** the set speed indicator will flash when the vehicle speed exceeds the set speed. The vehicle detect indicator will turn off when the area ahead of the vehicle is open. When the pedal is released, the vehicle will return to the previously set speed.

Even though your vehicle speed is set in the ICC system, you can depress the accelerator pedal when it is necessary to accelerate your vehicle rapidly.

## How to change the set vehicle speed

**To cancel the preset speed,** use any of these methods:

- Push the CANCEL switch. The set vehicle speed indicator will go out.
- Tap the brake pedal. The set vehicle speed indicator will go out.
- Turn the CRUISE ON/OFF switch off. The ICC indicators will go out.

**To reset at a faster cruising speed,** use one of the following methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the <SET/-> switch.

- Push and hold the <RES/+> switch. The set vehicle speed will increase by approximately 10 km/h (5 MPH).
- Push, then quickly release the <RES/+> switch. Each time you do this, the set speed will increase by approximately 1 km/h (1 MPH).

**To reset at a slower cruising speed,** use one of the following methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the <SET/-> switch and release it.
- Push and hold the <SET/-> switch. The set vehicle speed will decrease by approximately 10 km/h (5 MPH).
- Push, then quickly release the <SET/-> switch. Each time you do this, the set speed will decrease by approximately 1 km/h (1 MPH).

**To resume the preset speed,** push and release the <RES/+> switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 km/h (20 MPH).

## How to change the set distance to the vehicle ahead

The distance to the vehicle ahead can be selected at any time 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.

| Distance | Display | Approximate distance at 100 km/h (60MPH) (m (ft)) |
|---|---|---|
| Long |  | 60 (200) |
| Middle |  | 45 (150) |
| Short |  | 30 (100) |

- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- If the EV system is stopped, the set distance defaults to long. (Each time the EV system is started, the initial setting becomes long.)

## 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 travelling at the same speed and the distance between vehicles is not changing.
- When the vehicle ahead is travelling 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 manoeuvre or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

## Acceleration when passing

**⚠ WARNING**

**In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:**

- **This function is only activated with the left * turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include nonpassing situations such as left side exits*.**
  ***: In right-hand traffic countries, it is the opposite.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing - always manually steer or brake as needed – never solely rely on the system.**

**Driving on the left side:**

When the ICC system is engaged above 60 km/h (37 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the left, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the left and will begin to reduce the distance to the vehicle directly ahead. Only the left side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead, the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the left lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

**Driving on the right side:**

When the ICC system is engaged above 60 km/h (37 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the right, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the right and will begin to reduce the distance to the vehicle directly ahead. Only the right side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead, the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the right lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.

## Automatic cancellation

A chime sounds under the following conditions and the control is automatically cancelled.

- When the vehicle ahead is not detected and your vehicle is travelling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at standstill
- When the shift lever is not in the D (Drive) position
- When the parking brake is applied
- When the ESP system is turned off
- When ESP (including the traction control system) operates
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips
- When the radar signal is temporarily interrupted
- On repeated uphill and downhill roads

## Vehicle-to-vehicle distance control mode limitations

**⚠ WARNING**

**Listed below are the system limitations for the ICC system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the system in city traffic or congested areas.**
- **This system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves, steep uphill and downhill, or on icy roads, in heavy rain or in fog.**

- **As there is a performance limit to the distance control function, never rely solely on the ICC system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.**
- **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.**
- **Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The vehicle-to-vehicle distance control mode of the ICC system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.**
- **The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the ICC system under the following conditions:**
  - **On roads where the traffic is heavy or there are sharp curves**
  - **On slippery road surfaces such as on ice or snow, etc.**
  - **During bad weather (rain, fog, snow, etc.)**
  - **When rain, snow or dirt adhere to the system sensor**
  - **On steep downhill roads (the vehicle may go beyond the set vehicle speed and frequent braking may result in overheating the brakes)**
  - **On repeated uphill and downhill roads**
  - **When traffic conditions make it difficult to keep a proper distance between vehicles because of frequent acceleration or deceleration**
  - **Interference by other radar sources.**
- **In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the ICC system when it is not recommended in this section.**

The radar sensor will not detect the following objects:

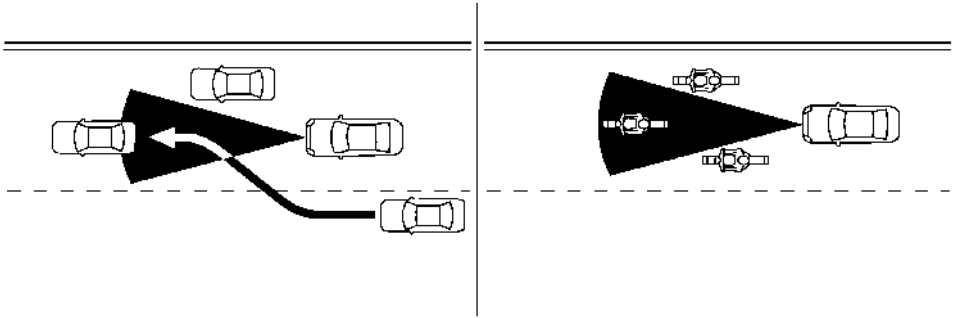
- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles travelling offset in the travel lane

The sensor generally detects the signals returned from the vehicle ahead. Therefore, if the sensor cannot detect the reflection from the vehicle ahead, the ICC system may not maintain the selected distance.

The following are some conditions in which the sensor cannot detect the signals:

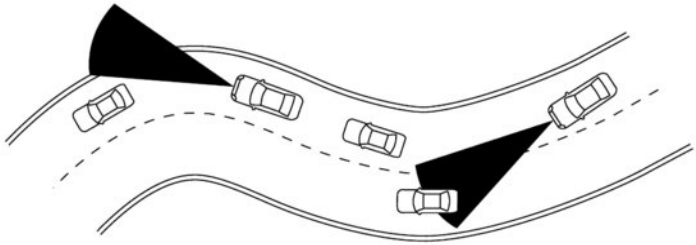
- When the snow or road spray from travelling vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage compartment of your vehicle

The ICC system is designed to automatically check the sensor's operation within the limitation of the system. When the sensor is covered with dirt or is obstructed, the system will automatically be cancelled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the ICC system may not detect them. In these instances, the vehicle-to-vehicle distance control mode may not cancel and may not be able to maintain the selected following distance from the vehicle ahead. Be sure to check and clean the sensor regularly.



The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are travelling offset from the centre line of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle travelling ahead.**



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 travelling 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 manoeuvre or travelling 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 travelling ahead.**

## System temporarily unavailable

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

**Condition A:**

Under the following conditions, the ICC system is automatically cancelled. A chime will sound and the system will not be able to be set:

- When the ESP is turned off
- When the ESP (including the traction control system) operates
- When a vehicle ahead is not detected and your vehicle is travelling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at a standstill
- When the shift lever is not in the D (Drive) position
- When the parking brake is applied
- When a tyre slips
- When the radar signal is temporarily interrupted
- On repeated uphill and downhill roads

**Action to take:**

When the conditions listed above are no longer present, turn the ICC system back on to use the system.

**Condition B:**

The chime will sound and the [Not Available Front Radar Blocked] 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 EV system off. When the radar signal is temporarily interrupted, clean the sensor area and restart the EV system. If the warning message continues to be

displayed, have the ICC system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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) and display the [Not Available Front Radar Blocked] message.
  **Action to take:**
  When the conditions listed above are no longer present, turn the ICC system back on to use the system.

**Condition C:**

When the ICC system is not operating properly, the chime sounds and the ICC system warning (yellow) will appear.

**Action to take:**

If the warning appears, park the vehicle in a safe place. Turn the EV system off, restart the EV system, resume driving and set the ICC system again.

**If it is not possible to set the system or the warning stays on, it may indicate that the ICC system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked. See a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for this service.**

## System maintenance

The sensor for the ICC system is located on the front of the vehicle.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area clean.
- Do not strike or damage the areas around the sensor
- Do not cover or attach stickers or similar objects near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer before customizing or restoring the front bumper.

For the radio approval numbers and information, see "Radio frequency approval" in the "9. Technical information" section.

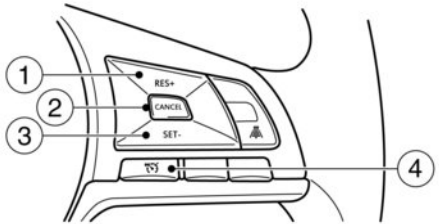
## CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

This mode allows driving at speeds between 40 km/h to 144 km/h (25 to 90 MPH) without keeping your foot on the accelerator pedal.

### ⚠ WARNING

- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**
- **Always confirm the setting in the ICC system display.**
- **Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:**
  - **when it is not possible to keep the vehicle at a set speed**
  - **in heavy traffic or in traffic that varies in speed**
  - **on winding or hilly roads**
  - **on slippery roads (rain, snow, ice, etc.)**
  - **in very windy areas**
- **Doing so could cause a loss of vehicle control and result in an accident.**

## Conventional (fixed speed) cruise control switches




1 <RES/+> switch:

Resumes set speed or increases speed incrementally.

2 <CANCEL> switch:

Deactivates the system without erasing the set speed.

3 <SET/-> switch:

Sets desired cruise speed, reduces speed incrementally.

4 CRUISE ON/OFF switch:

Main switch to activate/deactivate the system.

## Vehicle-to-vehicle distance control mode display and indicators

The display is located in the Vehicle Information Display.

1. This indicator indicates the ICC system status depending on a colour.
   - ICC system **ON** indicator (grey):
     Indicates that the Cruise ON/OFF switch is **ON**.
   - ICC system **ON** indicator (green):
     Displays while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.
   - ICC system **ON** indicator (yellow):
     Indicates that there is a malfunction in the ICC system.
2. Set vehicle speed 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 Cruise ON/OFF switch for longer than about 1.5 seconds.

When pushing the CRUISE ON/OFF switch on, the conventional (fixed speed) cruise control mode display and indicators are displayed in the vehicle information display. After you hold the CRUISE ON/OFF switch on for longer than about 1.5 seconds, the ICC system display goes out. The cruise indicator appears. You can now set your desired cruising speed. Pushing the CRUISE ON/OFF switch again will turn the system completely off.

When the power switch is placed in the **OFF** position, the system is also automatically turned off.

To use the ICC system again, quickly push and release the CRUISE ON/OFF switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

**⚠ CAUTION**

**To avoid accidentally engaging cruise control, make sure to turn the CRUISE ON/OFF switch off when not using the ICC system.**

**To set cruising speed,** accelerate your vehicle to the desired speed, push the <SET/-> switch and release it. (The colour of the cruise indicator changes to green and set vehicle speed indicator comes on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle,** depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

**To cancel the preset speed,** use any of the following methods:

- Push the CANCEL switch. The vehicle speed indicator will turn off.

- Tap the brake pedal. The vehicle speed indicator will turn off.
- Turn the CRUISE ON/OFF switch off. Both the cruise indicator and set vehicle speed indicator will turn off.

**To reset at a faster cruising speed,** use one of the following three methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the <SET/-> switch.
- Push and hold the <RES/+> switch. When the vehicle attains the desired speed, release the switch.
- Push, then quickly release the <RES/+> switch. 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 three methods:

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the <SET/-> switch and release it.
- Push and hold the <SET/-> switch. Release the switch when the vehicle slows down to the desired speed.
- Push, then quickly release the <SET/-> switch. 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 <RES/+> switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 40 km/h (25 MPH).

### System temporarily unavailable

A chime sounds under the following conditions and the control is automatically cancelled.

- 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) position.
- When the parking brake is applied
- When the ESP (including the traction control system) operates
- When a wheel slips

When the system is not operating properly, the chime sounds and the colour of the cruise indicator will change to yellow.

**Action to take:**

If the colour of the cruise indicator changes to yellow, park the vehicle in a safe place. Turn the EV system off, restart the EV system, 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 by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## INTELLIGENT EMERGENCY BRAKING (IEB) WITH PEDESTRIAN DETECTION SYSTEM

## INTELLIGENT EMERGENCY BRAKING (IEB) SYSTEM

The Intelligent Emergency Braking (IEB) system can assist the driver when there is a risk of a forward collision with the vehicle ahead in the travelling lane.




The IEB system uses a radar sensor Ⓐ located at the front of the vehicle to measure the distance to the vehicle ahead in the travelling lane.

**⚠ WARNING**

**Listed below are the system limitations for the Intelligent Emergency Braking system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The IEB 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 IEB system does not function in all driving, traffic, weather and road conditions.**

## SYSTEM OPERATION



The IEB system will function when your vehicle is driven at speeds above approximately 5 km/h (3 MPH).

If a risk of a forward collision is detected, the IEB system will provide the first warning to the driver by flashing the forward collision warning light (yellow) and providing an audible warning.

If the driver applies the brakes quickly and forcefully after the warning, and the IEB 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 IEB system issues the second visual warning (red) 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 IEB system applies harder braking automatically.

| Warning | Visual | Audible |
|---|---|---|
| First |  | Chime |
| Second |  | High pitched chime |

Overview of warnings

**NOTE:**

- **The vehicle's brake lights come on when braking is performed by the IEB system.**
- **When the IEB system detects an obstacle in the path of the vehicle and displays the IEB warning, a noise may be heard from the engine bay as the vehicle primes the brakes to improve response time.**

Depending on vehicle speed and distance to the vehicle 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 IEB system will function later or will not function.

The automatic braking will cease under the following conditions:

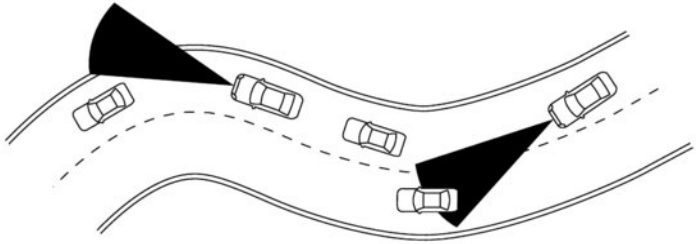
- When the steering wheel is turned as far as necessary to avoid a collision.
- When the accelerator pedal is depressed.
- When there is no longer a vehicle detected ahead.

If the IEB system has stopped the vehicle, the vehicle will remain at a standstill for approximately 2 seconds before the brakes are released.

## ⚠ WARNING

**Listed below are the system limitations for the Intelligent Emergency Braking system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The radar sensor does not detect the following objects:**
  - **Pedestrians, animals or obstacles in the roadway**
  - **Oncoming vehicles**
  - **Crossing vehicles**
- **The radar sensor has some performance limitations. If a stationary vehicle is in the vehicle's path, the IEB system will not function when the vehicle is driven at speeds over approximately 50 MPH (80 km/h).**
- **The radar sensor may not detect a vehicle ahead in the following conditions:**
  - **Dirt, ice, snow or other material covering the radar sensor.**
  - **Interference by other radar sources.**
  - **Snow or road spray from travelling vehicles.**
  - **If the vehicle ahead is narrow (e.g. motorcycle).**
  - **When driving on a steep downhill slope or roads with sharp curves.**
- **In some road or traffic conditions, the IEB system may unexpectedly apply partial braking. When acceleration is necessary, continue to depress the accelerator pedal to override the system.**
- **The IEB system may react to a roadside object (traffic sign, guard rail etc.).**
- **Braking distances increase on slippery surfaces.**
- **Excessive noise will interfere with the warning chime sound, and the chime may not be heard.**
- **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 of the front bumper 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 of the front bumper regularly.**



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 travelling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering manoeuvre or travelling 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 to the vehicle travelling ahead.**

## Turning the IEB system ON/OFF

Perform the following steps to turn the IEB system ON or OFF.

1. Using the ◀ or ▶ switches and the <OK> button on the left side of the steering wheel, select the [Settings] menu in the vehicle information display.

   For details, see ☞ "Settings" in the "2. Instruments and controls" section.

2. Using the ▲ and ▼ switches and the <OK> button, navigate to the [Driver Assistance] menu, followed by the [Driving Aids] menu.
3. In the [Driving Aids] menu, highlight the [Emergency Brake] item and use the <OK> button to toggle between ON (enabled) or OFF (disabled).

When the IEB system is turned off, the IEB system warning light (yellow) will illuminate.

**NOTE:**

- **Disabling the ESP system with the Vehicle Information Display causes the IEB system to become unavailable.**
- **The IEB system will be automatically turned ON when the engine is restarted.**

## System temporarily unavailable

**Condition A:**

When the radar picks up interference from another radar source, making it impossible to detect a vehicle ahead, the IEB system is automatically turned off. The IEB system warning light (yellow) and the forward collision warning light (yellow) will illuminate.

**Action to take:**

When the above conditions no longer exist, the IEB system will resume automatically.

**Condition B:**

In the following conditions, the IEB system warning light (orange) will illuminate and the [Not available Front Radar Obstruction] warning message will appear in the Vehicle Information Display.

- When the sensor area of the front bumper is covered with dirt or is obstructed.
  **Action to take:**
  If the warning light (yellow) comes on, park the vehicle in a safe location and turn the engine off. Check to see if the sensor area of the front bumper is blocked. If the sensor area of the front bumper is blocked, remove the blocking material. Restart the engine. If the warning light continues to illuminate, have the IEB system checked by a NISSAN dealer or qualified workshop.
- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).
  **Action to take:**
  When the above conditions no longer exist, the IEB system will resume automatically.

**Condition C:**

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).

**Action to take:**

When the above conditions no longer exist, the IEB system will resume automatically.

**Condition D:**

When the Electronic Stability Program (ESP) system is turned OFF, the IEB system braking will not operate. In this case only visible and audible warning operates. The IEB system warning light (orange) will illuminate.

**Action to take:**

When the ESP system is ON, the IEB system will resume automatically.

## System malfunction

If the IEB system malfunctions, it will be turned off automatically, a chime will sound, the IEB system warning light (yellow) and the forward collision warning light (yellow) will illuminate and the warning message [System fault] will appear in the Vehicle Information Display.

**Action to take:**

If the warning light (yellow) comes on, park the vehicle in a safe location, turn the engine off and restart the engine. If the warning light continues to illuminate, have the IEB system checked by a NISSAN dealer or qualified workshop.

# SYSTEM MAINTENANCE




The sensor Ⓐ is located behind the front grille.

To keep the 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 customising or restoring the front bumper, it is recommended that you visit a NISSAN dealer or qualified workshop.

For the radio approval numbers and information, see "Radio approval number and information" in the "9. Technical information" section.

## INTELLIGENT EMERGENCY BRAKING (IEB) WITH PEDESTRIAN DETECTION SYSTEM

### ⚠ WARNING

**Failure to follow the warnings and instructions for proper use of the IEB with pedestrian detection system could result in serious injury or death.**

- **The IEB 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 IEB with pedestrian detection system does not function in all driving, traffic, weather and road conditions.**

The IEB with pedestrian detection system can assist the driver when there is a risk of a forward collision with the vehicle ahead in the travelling lane or with a pedestrian.




The IEB with pedestrian detection system uses a radar sensor Ⓑ to measure the distance to the vehicle ahead in the same lane. For pedestrians, the IEB system uses a camera Ⓐ installed behind the windscreen in addition to the radar sensor.

| Warning | Visual* | Visual** | Audible |
|---|---|---|---|
| First |  |  | Chime |
| Second |  | | High pitched chime |

* Vehicle Information Display

** Segment display

### IEB with pedestrian detection system operation

The IEB system will function when your vehicle is driven at speeds above approximately 5 km/h (3 MPH). For the pedestrian detection function, the IEB with pedestrian detection system operates at speeds between 10 and 60 km/h (6 and 37 MPH).

If a risk of a forward collision is detected, the IEB system will provide an initial warning to the driver by blinking the vehicle ahead detection indicator and providing an audible alert. In addition, the IEB system applies partial braking. If the driver applies the brakes quickly and forcefully, but the IEB system detects that there is still the possibility of a forward collision, the system will automatically increase the braking force.

If the risk of a collision becomes imminent and the driver does not take action, the IEB system issues the second warning to the driver by flashing the IEB emergency warning indicator (red), providing an audible warning, and then automatically applies harder braking.

If a risk of a forward impact with a pedestrian is detected, the IEB system will provide a warning to the driver by flashing the IEB emergency warning indicator (red), provides an audible alert and the system will apply partial braking. If the driver applies the brakes quickly and forcefully, but the IEB system detects that there is still the possibility of a forward collision, the system will automatically increase the braking force. If the risk of a collision be-

comes imminent and the driver does not take action, the IEB system automatically applies harder braking.

**NOTE:**

- **The vehicle's brake lights come on when braking is performed by the IEB system.**
- **When the IEB system detects an obstacle in the path of the vehicle and displays the IEB warning, a noise may be heard from the motor compartment as the vehicle primes the brakes to improve response time.**

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 IEB 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 IEB 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 (IEB) system ON/OFF

Perform the following steps to turn the IEB system ON or OFF.

1. Using the ◀ or ▶ switches and the <OK> button on the left side of the steering wheel, select the [Settings] menu in the Vehicle Information Display.

   For details, see ☞ "Settings" in the "2. Instruments and controls" section.

2. Using the ▲ or ▼ switches and the <OK> button, navigate to the [Driver Assistance] menu, followed by the [Driving Aids] menu.

3. In the [Driving Aids] menu, highlight the [Emergency Brake] item and use the <OK> button to toggle between ON (enabled) or OFF (disabled).

When the IEB system is turned off, the IEB system warning light will illuminate.

**NOTE:**

- **Disabling the ESP system causes the Intelligent Emergency Braking system to become unavailable regardless of settings selected in the Vehicle Information Display.**
- **The IEB system will be automatically turned ON when the EV system is restarted.**
- **The Intelligent Forward Collision Warning (I-FCW) system is integrated into the IEB system. There is not a separate selection in the Vehicle Information Display for the I-FCW system. When the IEB is turned off, the I-FCW system is also turned off.**

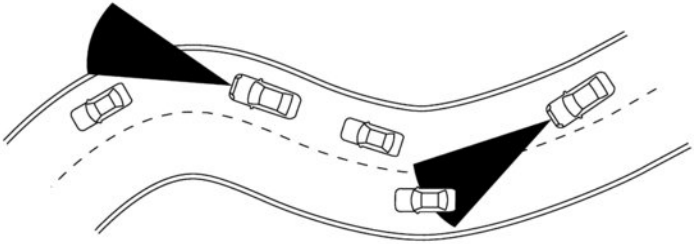
## IEB with pedestrian detection system limitations

**⚠ WARNING**

**Listed below are the system limitations for the IEB system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The IEB system cannot detect all vehicles or pedestrians under all conditions.**
- **The IEB system does not detect the following objects:**
  - **Small pedestrians (including small children), animals and cyclists.**
  - **Pedestrians in wheelchairs or using mobile transport such as scooters, child-operated toys, or skateboards.**
  - **Pedestrians who are seated or otherwise not in a full upright standing or walking position.**
  - **Oncoming vehicles.**
  - **Crossing vehicles.**
  - **Obstacles on the roadside.**

- The IEB system has some performance limitations.
  - If a stationary vehicle is in the vehicle's path, the IEB system will not function when the vehicle is driven at speeds over approximately 80 km/h (50 MPH).
  - For pedestrian detection, the IEB system 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).
- The IEB system may not function for pedestrians in darkness or in tunnels, even if there is street lighting in the area.
- The IEB system may not function if the vehicle ahead is narrow (e.g. a motorcycle).
- The IEB system may not function if the speed difference between the two vehicles is too small.
- The IEB system may not function properly or detect a vehicle ahead in the following conditions:
  - Poor visibility (conditions such as rain, snow, fog, dust storms, sand storms, and road spray from other vehicles).
  - Driving on a steep downhill slope or roads with sharp curves.
  - Driving on a bumpy road surface, such as an uneven dirt road.
  - If dirt, ice, snow or other material is covering the radar sensor area.
  - Interference by other radar sources.
  - The camera area of the windscreen is fogged up, covered with dirt, water drops, ice, snow, etc.
  - Strong light (e.g. sunlight or high beams from oncoming vehicles) enters the front camera. Strong light causes the area around the pedestrian to be cast in shadow, making it difficult to see.
  - A sudden change in brightness occurs. For example, when the vehicle enters or exits a tunnel or a shaded area or lightning flashes.)
  - The poor contrast of a person to the background, such as having clothing coloured or patterned similar to the background.
  - The pedestrian's profile is partially obscured or unidentifiable due to the pedestrian transporting luggage, wearing bulky or very loose-fitting clothing or accessories.
- The system performance may degrade in the following conditions:
  - The vehicle is driven on a slippery road.
  - The vehicle is driven on a slope.
  - Excessively heavy luggage is loaded in the rear seat or the luggage area of your vehicle.
- The system is designed to automatically check the sensor (radar and camera) functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, etc. 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 or traffic conditions, the IEB system may unexpectedly apply partial braking. When acceleration is necessary, continue to depress the accelerator pedal to override the system.
- The IEB system may react to roadside objects (traffic sign, guard rail etc.).
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.
- Braking distances increase on slippery surfaces.



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 travelling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering manoeuvre or travelling 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 to the vehicle travelling ahead.**

## System temporarily unavailable

**Condition A:**

In the following conditions, the IEB system warning light blinks and the system will be turned off automatically.

- The radar sensor picks up interference from another radar source.
- The camera area of the windscreen is misted or frozen.
- Strong light is shining from the front.
- The cabin temperature is over approximately 40°C (104°F) in direct sunlight
- The camera area of the windscreen is continuously covered with dirt, etc.

**Action to take:**

When the above conditions no longer exist, the IEB system will resume automatically.

**NOTE:**
**When the inside of the windscreen area near the camera is misted or frozen, it will take a period of time to remove it after the A/C turns on. If dirt appears on this area it is recommended that you visit a NISSAN dealer or qualified workshop.**

**Condition B:**

In the following conditions, the IEB warning light will illuminate and the system will be turned off automatically.

- The sensor area of the grille is covered with dirt or is obstructed.
  **Action to take:**
  If the warning light (yellow) comes on, park the vehicle in a safe location and turn the EV system off. Clean the radar sensor area of the front grille or the camera area of the windscreen with a soft cloth, and restart the EV system. If the warning light continues to illuminate, have the IEB system checked by a NISSAN dealer or qualified workshop.
- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).
  **Action to take:**
  When the above conditions no longer exist, the IEB system will resume automatically.

**NOTE:**
**If the IEB system stops working, the I-FCW system will also stop working.**

### System malfunction

In the following conditions the IEB system warning light blinks and the system will be turned off automatically.

**Action to take:**

If the warning light (yellow) comes on, park the vehicle in a safe location, turn the EV system off and restart the EV system. If the warning light continues to illuminate, have the IEB system checked by a NISSAN dealer or qualified workshop.

## SYSTEM MAINTENANCE




The camera Ⓐ is located on the upper side of the windscreen.

The sensor Ⓑ is located behind the front grille.

To keep the 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 customising or restoring the front bumper, it is recommended that you visit a NISSAN dealer or qualified workshop.

For the radio approval numbers and information, see "Radio frequency approval" in the "9. Technical information" section.

## INTELLIGENT FORWARD COLLISION WARNING (I-FCW)

**⚠ WARNING**

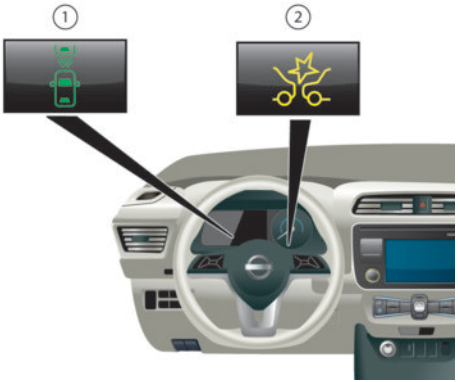
**Failure to follow the warnings and instructions for proper use of the I-FCW system could result in serious injury or death.**

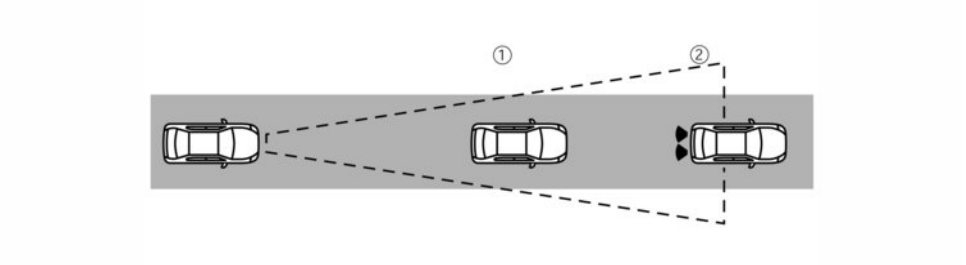
- **The I-FCW system can help warn the driver before a collision occurs but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.**

The I-FCW system can help alert the driver when there is a sudden braking of a second vehicle travelling in front of the vehicle ahead in the same lane.




The I-FCW system uses a radar sensor Ⓐ located on the front of the vehicle to measure the distance to the vehicle ahead in the same lane.




1. Vehicle ahead detection indicator
2. IEB system warning light

1. First vehicle
2. Second vehicle

## I-FCW system operation

The I-FCW system operates at speeds above approximately 5 km/h (3 mph). If there is a potential risk of a forward collision, the I-FCW system will warn the driver by blinking the vehicle ahead detection indicator, and sounding an audible alert.

## I-FCW System Activation/Deactivation

Perform the following steps to turn the I-FCW system ON or OFF.

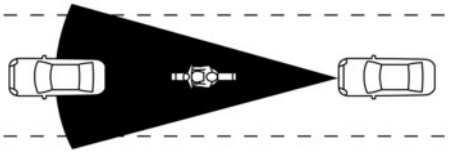
1. Press the button ◀ or ▶ until [Settings] displays in the vehicle information display. Use the ▲ or ▼ button to select [Driver Assistance]. Then press the <OK> button.
2. Select [Emergency Brake] and press the <OK> button.
3. Select [Front] and press the <OK> button to turn the system on or off.

When the I-FCW system is turned off, the IEB system warning light illuminates.

**NOTE:**

- **The I-FCW system will be automatically turned on when the EV system is restarted.**
- **The I-FCW system is integrated into the IEB system. There is not a separate selection in the vehicle information display for the I-FCW system. When the IEB is turned off, the I-FCW system is also turned off.**

**I-FCW System Limitations**



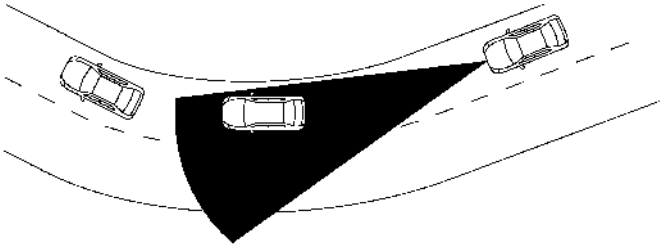




## ⚠ WARNING

**Listed below are the system limitations for the I-FCW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.**

- **The I-FCW 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**
- **The I-FCW 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**
  - **When the vehicle ahead is being towed.**
  - **When the distance to the vehicle ahead is too close, the beam of the radar sensor is obstructed.**
  - **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, etc. 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.**



## 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 I-FCW system is automatically turned off.

The IEB system warning light (orange) will illuminate.

**Action to take:**

When the above conditions no longer exist, the I-FCW system will resume automatically.

**Condition B:**

When the sensor area of the front bumper is covered with dirt or is obstructed, making it impossible to detect a vehicle ahead, the I-FCW system is automatically turned off.

The IEB system warning light (orange) will illuminate and the [Not Available: Front Radar Blocked] warning message will appear in the vehicle information display.

When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls), the system may illuminate the system warning light (orange) and display the [Not Available: Front Radar Blocked] message.

**Action to take:**

If the warning light (orange) comes on, stop the vehicle in a safe place, place the shift lever in the P (Park) position and turn the EV system off. Clean the radar cover on the lower grille with a soft cloth, and restart the EV system. If the warning light continues to illuminate, have the I-FCW system checked. It is recommended that you visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**NOTE:**
**If the IEB system stops working, the I-FCW system will also stop working.**

## System malfunction

If the I-FCW system malfunctions, it will be turned off automatically, a chime will sound, the IEB system warning light (orange) will illuminate and the warning message [Malfunction] 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 EV system off and restart the EV system. If the warning light continues to illuminate, have the I-FCW system checked. It is recommended that you visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## SYSTEM MAINTENANCE




The sensor Ⓐ is located behind the front grille.

To keep the 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 customising or restoring the front bumper, it is recommended that you visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer

For the radio approval numbers and information, see "Radio frequency approval" in the "9. Technical information" section.

## INTELLIGENT DRIVER ALERTNESS (where fitted)

### ⚠ 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 travelling 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 behaviour 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 an audible and visual warning to suggest that the driver take a break.

## SYSTEM OPERATION

If the system detects that driver fatigue increases 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 behaviour when the power switch is turned off and then placed back in the **ON** position.

### System Activation/Deactivation

Perform the following steps to enable or disable the Intelligent Driver Alertness system.

1. Use the ◀ or ▶ button on the steering wheel until [Settings] is shown on the Vehicle Information Display.
2. Use the ▲ or ▼ button to select [Driver Assistance]. Then push **<OK>**.
3. Select [Driver Attention Alert] and push **<OK>**.

**NOTE:**

- **The setting will be retained even if the EV system is restarted.**

### Intelligent Driver Alertness 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] warning 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, and then turn off and restart the EV system. If the warning message continues to appear, have the Intelligent Driver Alertness system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer

## INCREASING POWER ECONOMY

The actual driving range will vary depending upon:

- speed,
- vehicle load,
- electrical load from vehicle accessories,
- traffic and road conditions,

**NISSAN recommends the following driving habits to maximise vehicle range:**

**Before driving:**

- Follow recommended periodic maintenance.
- Keep tyres inflated to the correct pressure.
- Keep wheels in correct alignment.
- Pre-heat or pre-cool the interior cabin while the vehicle is charging.
- Remove unnecessary cargo from the vehicle.

**While driving:**

- Drive in ECO mode
  - The ECO mode helps reduce power consumption by reducing acceleration when compared to the same accelerator pedal position in the D (Drive) position (normal mode).
- Drive at a constant speed. Maintain cruising speeds with constant accelerator pedal positions or use the cruise control system when appropriate.
- Accelerate slowly and smoothly. Gently depress and release the accelerator pedal for acceleration and deceleration.
- Drive at moderate speeds on the motorway.
- Avoid frequent stopping and braking. Maintain a safe distance behind other vehicles.
- Turn off the air conditioner/heater system when it is not necessary.
- Select a moderate temperature setting for heating or cooling to help reduce power consumption.
- Use only the fan to help reduce power consumption.
- In cold weather, use the heated seats (where fitted) and heated steering wheel (where fitted) as a substitute for air conditioner to help reduce power consumption.
- Use the air conditioner/heater system and close windows to reduce drag when cruising at motorway speed.
- Release the accelerator pedal to slow down and do not apply the brakes when traffic and road conditions allow.
  - This vehicle is equipped with a regenerative brake system. The primary purpose of regenerative brake system is to provide some power to recharge the Li-ion battery and extend driving range. A secondary benefit is "engine braking" that operates based on Li-ion battery conditions. In the D (Drive) or B position, when the accelerator pedal is released, the regenerative brake system provides some deceleration and some power to the Li-ion battery.

## ULTRASONIC PARKING SENSORS (where fitted)

Ultrasonic sensors in the vehicle's front and rear bumpers (or rear bumper only), measure the distances between the vehicle and an obstacle when reversing. When reverse gear is engaged, a top view of the vehicle is shown in the Vehicle Information Display. On the display the distances (1 meter and less) to objects are shown. If the object(s) get(s) closer to the vehicle, colours change from green over yellow to red. If the text [STOP] is shown, stop the vehicle before actually touching the object.

### ⚠ WARNING

- **If there is any doubt the surroundings in the path of the parking area and/or the parking area itself are not free from obstacles immediately stop the vehicle and check.**
- **The parking sensor system is a convenience but it is not a substitute for proper parking. The driver is always responsible for safety during parking and other manoeuvres. Always look around and check that it is safe to do so before parking.**
- **Read and understand the limitations of the parking sensor system as contained in this section. The colours of the corner sensor indicator and the distance guide lines in the front (where fitted)/rear view indicate different distances to the object. Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes, horn sound, or a pneu-**

matic drill may affect the function of the system; this may include reduced performance or a false activation.

- Some types of kerb may also be detected.
- This function is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The 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 system is deactivated at speeds above 10 km/h (6 MPH). It is reactivated at lower speeds.
- This system is intended as an aid to parking, to be used in conjunction with your rear view mirrors.
- The 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.
  - 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.

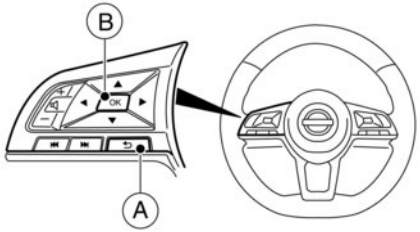
**⚠ CAUTION**

- Excessive noise (such as audio system volume or an open vehicle window) will interfere with the tone and it may not be heard.
- In some conditions (i.e. after car wash, or rain) water can accumulate around the sonar sensors reducing performance or cause false activation of the system. This water will drain away automatically while driving, bringing system performance back to normal.
- Keep the surface of the sonar sensors (located on the front and rear bumper fascia) free from accumulations of snow, ice and dirt. Do not scratch the surface of the sonar sensors when cleaning. If the sensors are covered, the accuracy of the sonar function will be diminished.

## OPERATION

### Using the settings menu

The settings of the parking sensor system can be changed.




With the power in the **ON** position navigate to the [Settings] menu in the Vehicle Information Display, select
[Driver Assistance] —> [Parking Aids] —> [Sonar]
or when the parking sensor screen is displayed, press the **<OK>** switch Ⓑ on the steering wheel. Press the BACK switch Ⓐ to return to the previous item.

Set the following items to ON or OFF by selecting (highlighting) and pressing the **<OK>** switch Ⓑ on the steering wheel. When selected, a marker is shown.

**[Parking Sonar]:**

In this menu activate or deactivate the parking sensors. The available settings are:

- [OFF]
  (No parking aids)
- [Front Only]
  (Only the parking sensors on the front of the vehicle will be activated)
- [ON]
  (All parking sensors will be activated)

**[Display]:**

Activate or deactivate the [Display] of the parking aids system.

**[Volume]:**

Set the volume of the parking sensor system Select [Volume] highlight the desired volume and press <OK>.

- [High]
- [Med.]
- [Low]

**[Range]:**

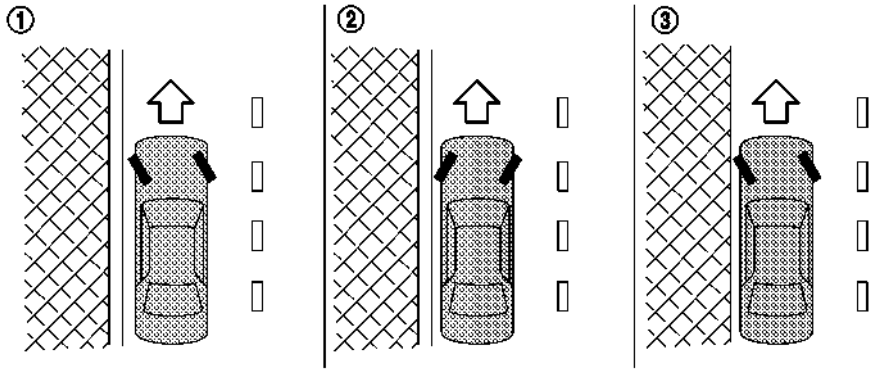
Set the range sensitivity Select [Range] and press <OK>.

- [Far]
- [Mid.]
- [Near]

## MAINTENANCE

Blockages like dirt, ice, and objects such as stickers and accessories installed within the detection range of the parking sensor may cause incorrect function of the parking sensor system. Clean the sensors regularly with care, and do not scratch or damage them.

## PARKING




**Right-Hand Drive (RHD) model**

### ⚠ WARNING

- **Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.**
- **Never leave the vehicle in the READY to drive mode while the vehicle is unattended.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.**
- **Safe parking procedures require that both the parking brake be applied and the vehicle is placed in the park position. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.**

1. Depress the footbrake pedal to stop the vehicle.
2. Firmly apply the parking brake.
3. Press the P position switch on the shift lever.
4. When parked on a sloping driveway, turn the wheels so the vehicle will not roll into the street in case it moves, as illustrated above.
   - HEADED DOWNHILL WITH KERB: ①
     Turn the wheels into the kerb, and allow the vehicle to move forward until the kerb side wheel gently touches the kerb.
   - HEADED UPHILL WITH KERB: ②
     Turn the wheels away from the kerb and allow the vehicle to move back until the kerb side wheel gently touches the kerb.
   - HEADED UPHILL OR DOWNHILL, NO KERB: ③
     Turn the wheels toward the side of the road so the vehicle will move away from the centre of the road if it moves.
5. Place the power switch in the OFF position.

## ELECTRIC POWER STEERING SYSTEM

**⚠ WARNING**

- **If the READY to drive indicator light is OFF while driving, the power assist for the steering will not work. Steering will require much more effort.**
- **When the electric power steering warning light illuminates while the READY to drive indicator light ON, the power assist for the steering will cease operation. You will still have control of the vehicle but steering will require much more effort.**

The electric power steering system is designed to provide power assistance while driving to operate the steering wheel with less effort.

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 system and help protect it from getting damaged. While the power assistance is reduced, steering wheel operation will become harder. When the temperature of the electric power steering system goes down, the level of power assistance provided by the system will return to normal. Avoid repeating such steering wheel operations that could cause the electric power steering system to overheat.

You may hear a noise when the steering wheel is operated quickly. This is normal and does not indicate malfunction.

If the electric power steering warning light illuminates while the READY to drive indicator light is ON, it may indicate the electric power steering system is not functioning properly and may need servicing. Have the electric power steering system checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. (See "Electric power steering warning light" in the "2. Instruments and controls" section.)

When the electric power steering warning light illuminates with the READY to drive indicator light is ON, the power assist for the steering will cease operation. You will still have control of the vehicle. However, steering will require much more effort, especially in sharp turns and at low speeds.

## BRAKE SYSTEM

### BRAKING PRECAUTIONS

This vehicle is equipped with two braking systems:

1. Hydraulic brake system.
2. Regenerative brake system.

#### Hydraulic brake system

The hydraulic brake system is similar to the brakes used on conventional vehicles.

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

#### Regenerative brake system

The primary purpose of the regenerative brake system is to provide some power to help recharge the Li-ion battery and to extend driving range. A secondary benefit is "engine braking" that occurs when the regenerative brake is activated. The level of regenerative braking varies with the state of charge of the Li-ion battery.

In the D range, when the accelerator is released, the regenerative brake system provides some deceleration and generates power for the Li-ion battery. Power is also generated when the brake pedal is applied.

When placing the shift lever in the B position and take your foot off the accelerator pedal, the level of regenerative braking applied is increased compared to driving in the D (Drive) position. However, during high-speed driving you may feel that regenerative brake provides less deceleration than the engine braking in an ordinary vehicle would do. This is normal.

Less deceleration is provided by the regenerative brake system when the Li-ion battery is fully charged. Regenerative braking is automatically reduced when the Li-ion battery is fully charged to prevent the Li-ion battery from becoming overcharged. Regenerative braking is also automatically reduced when the battery temperature is high/low (indicated by the red/blue zones on the battery temperature gauge) to prevent Li-ion battery damage.

The brake pedal should be used to slow or stop the vehicle depending on traffic or road conditions. The vehicle brakes are not affected by regenerative brake system operation.

**NOTE:**

- **When applying the regenerative brakes, you may hear a sound coming from the regenerative brake system. This is a normal operating characteristic of an electric vehicle.**
- **If the power switch position is in a position other than ON or READY to drive, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle, and the stopping distance will be longer since the braking will not be power assisted.**
- **When depressing the brake pedal, the braking pedal feel will not be smooth or may change when the regenerative brake system activates. However, the electronically controlled brake system is operating normally and this does not indicate a malfunction.**

## Using brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wear out the brake pads and shoes faster and will reduce driving range.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and select the B position before driving down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

### ⚠ WARNING

- **While driving on a slippery surface, be careful when braking or accelerating. Abrupt braking or accelerating could cause the wheels to skid, which could result in an accident.**
- **If the brake pedal is depressed with the electric vehicle system OFF, you may feel an increased brake pedal effort and a decreased pedal stroke. If the BRAKE warning light does not illuminate and the brake pedal feels like it has returned to its normal state after the electric vehicle system is started, this indicates that there is no malfunction and the vehicle can be operated normally.**

## Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, the 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 tapping the brake pedal to heat up the brakes. Do this until the brake performance returns to normal. Avoid driving the vehicle at high speeds until the brakes have dried.

## PARKING BRAKE BREAK-IN

Break in the parking brake shoes whenever the holding effect of the parking brake is weakened or whenever the parking brake shoes and/or drums are replaced, in order to maintain optimum braking performance.

This procedure is described in the vehicle Service Manual, and it can be performed by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## ANTI-LOCK BRAKING SYSTEM (ABS)

**⚠ WARNING**

- **The Anti-lock Braking System (ABS) is a sophisticated system, 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 tyre chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tyre type and condition may also affect braking effectiveness.**
  - **When replacing tyres, install the specified size of tyres on all four wheels.**
  - **For detailed information, see ☞ "Wheels and tyres" in the "8. Maintenance and do-it-yourself" section.**

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 of 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 minimise swerving and spinning on slippery surfaces.

### Using the system

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

**⚠ WARNING**

**Do not pump the brake pedal. Doing so may result in increased stopping distances.**

### Self-test feature

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you push the power switch in the READY to drive position 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 still 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### Normal operation

The ABS operates at speeds above 5 to 10 km/h (3 to 6 MPH). The speeds will vary 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 bonnet 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.

## ELECTRONIC STABILITY PROGRAMME (ESP) SYSTEM

The Electronic Stability Programme (ESP) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the ESP system performs the following functions.

- Controls brake pressure to reduce wheel slip on a slipping driven wheel so power is transferred to the other driven wheel on the same axle that is not slipping.
- Controls brake pressure and traction motor output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and traction motor 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 ESP system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the ESP system operates, the warning in the instrument panel flashes. When the warning flashes, note the following items.

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the bonnet. This is normal and indicates that the ESP system is working properly.
- Adjust your speed and driving style to the road conditions.

For details, see "Electronic Stability Programme (ESP) warning light" in the "2. Instruments and controls" section and "Electronic Stability Programme (ESP) off indicator light" in the "2. Instruments and controls" section.

If a malfunction occurs in the system, the warning illuminates in the lower display. The ESP system automatically turns off when this warning light is illuminated.

The Vehicle Information Display is used to turn off the ESP system. The ESP off indicator illuminates to indicate that the ESP system is off. When the ESP is turned off, the ESP system still operates to prevent one drive wheel from slipping by transferring power to a drive wheel that is not slipping. The warning flashes if this occurs. All other ESP functions are off and the warning will not flash. The ESP System is automatically reset to on when the power switch is placed in the OFF position and afterwards returned to the ON position.

The computer has a built-in diagnostic feature that tests the system each time you place the power switch in the READY to drive position and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a "clunk" noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

### ⚠ WARNING

- **The ESP system is designed to help the driver maintain the driving stability but does not prevent accidents caused 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, stabiliser bars, bushings and wheels are not NISSAN recommended parts for your vehicle or are extremely deteriorated the ESP system may not operate properly. This could adversely affect vehicle handling performance, and the warning may flash or warning may illuminate.**
- **The ESP system was designed by NISSAN to work with brake related parts recommended by NISSAN. Accordingly, to ensure proper operation of the ESP system, NISSAN recommends the use of those brake related parts that are recommended by NISSAN. In addition, such parts should be replaced if extremely deteriorated to ensure proper operation of the ESP system.**

- **If traction motor control related parts are not NISSAN recommended or are extremely deteriorated, the warning may illuminate.**
- **When driving on extremely inclined surfaces such as higher banked corners, the ESP system may not operate properly and the warning 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 warning may illuminate. This is not a malfunction. Restart the electric vehicle system after driving onto a stable surface.**
- **The ESP system was designed by NISSAN to work with wheels or tyres recommended by NISSAN. Accordingly, to ensure proper operation of the ESP system, NISSAN recommends the use of wheels or tyres that are recommended by NISSAN.**
- **The ESP system is not a substitute for winter tyres or snow chains on a snow covered road.**

## CHASSIS CONTROL

The chassis control is an electric control module that controls the Intelligent Trace Control (ITC) functions:

### INTELLIGENT TRACE CONTROL (ITC)

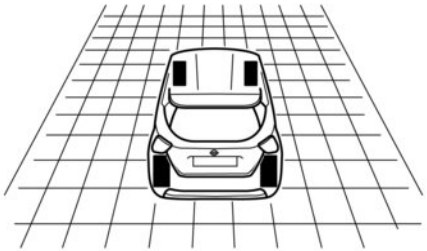
**⚠ WARNING**

**ITC may not be effective depending on the driving condition. Always drive carefully and attentively.**

This system senses driving based on the driver's steering and acceleration/braking patterns, and controls brake pressure at individual wheels to aid tracing at corners and help smooth vehicle response.

The ITC system is switched **ON** (enabled) or **OFF** (disabled) through the Vehicle Information Display. See "Vehicle Information Display" in the "2. Instruments and controls" section for more information.

When the Electronic Stability Programme (ESP) system is turned off, the ITC is also turned **OFF**.



**Chassis control**

When the ITC is operated and the [Chassis Control] view is selected in the trip computer, the ITC graphics are shown in the Vehicle Information Display.

If the chassis control warning message appears in the Vehicle Information Display, it may indicate that the ITC is not functioning properly. Have the system checked by a NISSAN dealer or qualified workshop as soon as possible.

When the ITC is operating, you may feel a pulsation in the brake pedal and hear a noise, this is normal and indicates that the ITC is operating properly.

Even if the ITC is set to **OFF**, some functions will remain on to assist the driver (for example, avoidance scenes).

## INTELLIGENT RIDE CONTROL

This system senses upper body motion based on wheel speed information and controls four wheel brake pressure to enhance ride comfort in an effort to restrain uncomfortable upper body movement. This system come into effect above 40 km/h (25 MPH).

When the Vehicle Information Display is used to turn the ESP system off, the Intelligent Ride Control is also turned off.

When the brake control of Intelligent Ride Control is operated and the [Chassis Control] mode is selected in the trip computer, the Intelligent Ride Control graphics are shown in the Vehicle Information Display.

If the chassis control warning message appears in the Vehicle Information Display, it may indicate that the Intelligent Ride Control is not functioning properly. Have the system checked by a NISSAN dealer or qualified workshop as soon as possible.

When the Intelligent Ride Control is operating, you may hear noise and sense slight deceleration. This is normal and indicates that the Intelligent Ride Control is operating properly.

## 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 earlier 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 manoeuvres.**
- **Do not use cruise control on slippery roads.**

### ⚠ CAUTION

**To prevent damage to the Li-ion battery:**

- **Do not store the vehicle in temperatures below -25 °C (-13 °F) for over seven days.**
- **If the outside temperature is -25 °C (-13 °F) or less, the Li-ion battery may freeze and it cannot be charged or provide power to run the vehicle. Move the vehicle to a warm location.**

**NOTE:**

- **The vehicle driving range may be substantially reduced in extremely cold conditions (for example under -17 °C (-1 °F)).**
- **Using the climate control system to heat the cabin when the outside temperature is below 0 °C (32 °F) uses more electricity and affects vehicle driving range more than when using the heater when the temperature is above 0 °C (32 °F).**
- **Set only the charging timer [End Time] when charging in cold weather. The vehicle automatically determines when to start charging, to fully charge the Li-ion battery.**

## 12–VOLT BATTERY

If the 12–volt battery is not fully charged during extremely cold weather conditions, the 12–volt battery fluid may freeze and damage the 12–volt battery. To maintain maximum efficiency, the 12–volt battery should be checked regularly. For details, see ☞ "12-volt Battery" in the "8. Maintenance and do-it-yourself" section.

## COOLANT

If the vehicle is to be left outside without anti-freeze, drain the cooling system. Refill before operating the vehicle. For details, see ☞ "Cooling system" in the "8. Maintenance and do-it-yourself" section.

## TYRE EQUIPMENT

1. If snow tyres are 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 tyres.
2. If the vehicle is to be operated in severe winter conditions, snow tyres should be installed on all four wheels.
3. For additional traction on icy roads, studded tyres may be used. However, some countries, provinces and states prohibit their use. Check applicable laws before installing studded tyres.

   **Skid and traction capabilities of studded snow tyres, on wet or dry surfaces, may be poorer than that of non-studded snow tyres.**
4. Snow chains may be used if desired. Make sure they are the proper size for the tyres on your vehicle and are installed according to the snow chain manufacturer's instructions. Use chain tensioners when recommended by the snow chain manufacturer to ensure a tight fit. Loose end links of the snow chains must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. In addition, drive at a reduced speed, otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

## SPECIAL WINTER EQUIPMENT

It is recommended to carry the following items in the vehicle during 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), do not apply the parking brake to prevent it from freezing. For safe parking:

- Push the P position switch on the shift lever for the P (Park) position.
- 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 brake lines, brake cables, floor pan and fenders.

**In the winter, the underbody must be cleaned periodically. For additional information, see ☞ "Corrosion protection" in the "7. Appearance and care" section**.

For additional protection against rust and corrosion, which may be required in some areas, consult a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## FREEING A FROZEN CHARGE PORT LID

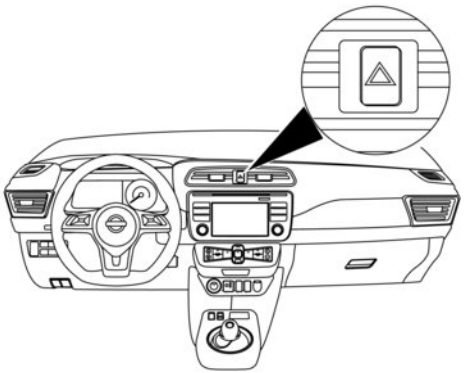
When the charge port is frozen, melt the ice using a hair dryer.

# 6 In case of emergency


Hazard warning flasher switch ..... 6-2
Roadside assistance programme ..... 6-2
Flat tyre ..... 6-3
- Stopping vehicle ..... 6-3
- Spare tyre (where fitted) ..... 6-3
- Tyre Pressure Monitoring System (TPMS) (where fitted) ..... 6-7
- Repairing flat tyre (Models with emergency tyre puncture repair kit — where fitted) ..... 6-9

Jump starting ..... 6-13
If the Li-ion battery becomes completely discharged ..... 6-15
Push starting ..... 6-16
Towing your vehicle ..... 6-16
- Towing recommended by NISSAN ..... 6-17
- Vehicle recovery (freeing stuck vehicle) ..... 6-17

## HAZARD WARNING FLASHER SWITCH



Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights will flash.

**⚠ WARNING**

- **If stopping for an emergency, be sure to move the vehicle well off the road.**
- **Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.**
- **Turn signalling does not work when the hazard warning flasher lights are on.**

The flasher can be actuated with the power switch in any position.

**Local legislation may prohibit the use of the hazard warning flasher switch while driving.**

When an impact that could activate the supplemental air bags is detected, the hazard warning flasher lights are activated automatically. If the hazard warning flasher switch is pushed, the hazard warning flasher lights will turn off.

## ROADSIDE ASSISTANCE PROGRAMME

In the event of a roadside emergency, Roadside Assistance Service is available to you. Please refer to the separately provided Warranty Information and Maintenance booklet.

# FLAT TYRE

## STOPPING VEHICLE

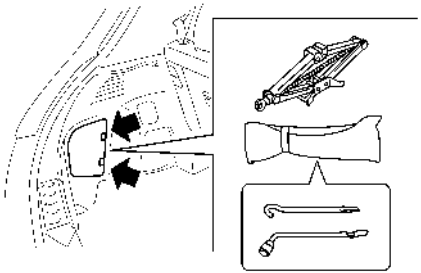
**⚠ WARNING**

- **Make sure the parking brake is securely applied.**
- **Make sure the shift lever is placed in the P (Park) position.**
- **Never change or repair tyres when the vehicle is on a slope, ice or slippery areas. This is hazardous.**
- **Never change or repair tyres if oncoming traffic is close to your vehicle. Wait for professional road assistance.**

1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake.
4. Push the P position switch on the shift lever for the P (Park) position.
5. Turn off the electric vehicle system.
6. Open the bonnet:
   - To warn other traffic.
   - To signal professional road assistance personnel that you need assistance.
7. Have all passengers exit the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

## SPARE TYRE (where fitted)

### Preparing tools



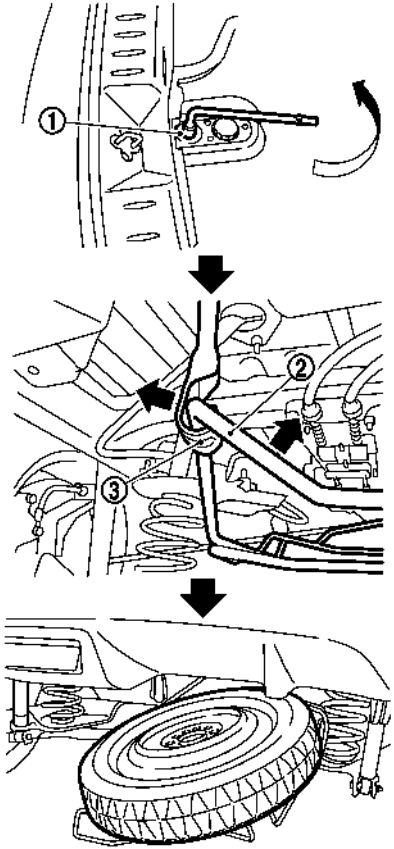
Remove the jack and tools from the boot as illustrated.

### Changing flat tyre

The temporary use spare tyre is located under the rear of the vehicle.

To remove the spare tyre, perform the following procedure:

1. Open the tailgate



2. Remove the floor board.
3. Loosen the bolt ① anticlockwise approximately 25 turns using the wheel nut wrench to lower the spare tyre cradle.
4. Stop turning the bolt at the position where the cradle ② can be removed from the hook ③.

**NOTE:**
**Do not loosen the bolt excessively, otherwise the cradle may fall suddenly.**

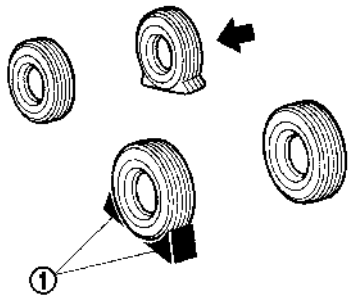
5. Hold the cradle and remove it from the hook by pushing the cradle upwards.
6. Lower the cradle slowly to the ground, and then take out the spare wheel.
7. Restore the cradle to its original position.

Spare tyre basket bolt tightening torque: 64 to 86 N·m (6.6 to 8.7 kg-m, 48 to 63 ft-lb)

**⚠ WARNING**

**Properly stow the spare tyre cradle after use. Driving without properly stowing the spare tyre cradle can cause contact with the road and cause sparks or scatter rocks/road debris resulting in vehicle damage or serious personal injury.**

## Blocking wheels




Place suitable blocks ① at both the front and back of the wheel diagonally opposite the flat tyre to prevent the vehicle from moving when it is jacked up.

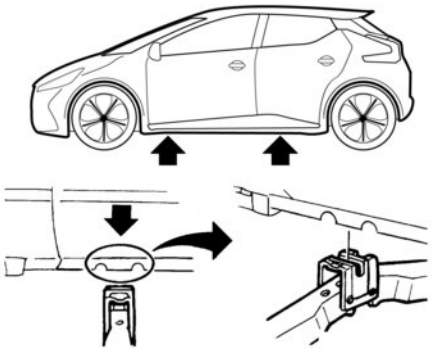
**⚠ WARNING**

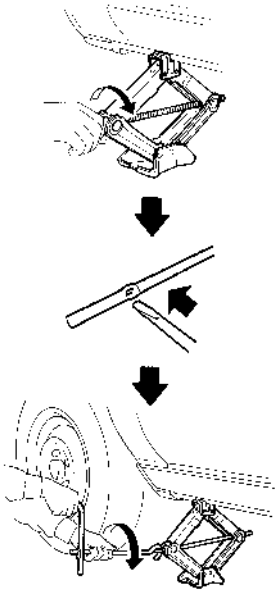
**Be sure to block the wheel as the vehicle may move, resulting in personal injury.**

## Removing or installing the wheel

**⚠ WARNING**

- **Make sure to read and follow the instructions in this section.**
- **Make sure to read the caution label attached to the jack body before use.**
- **DO NOT GET UNDER A VEHICLE THAT IS SUPPORTED BY A JACK.**
- **Never use a jack which is not provided with your vehicle.**
- **Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles.**
- **Never use any other part of the vehicle for jack support. Use the correct jack-up points.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**
- **Never place the power switch in the READY to drive position while the vehicle is on the jack. The vehicle may move suddenly, and this may cause an accident.**
- **Do not allow passengers to stay in the vehicle while it is on the jack.**
- **Remove all loads before lifting the vehicle with the jack.**



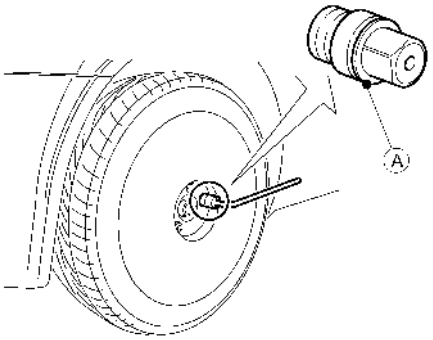


1. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point.

   **The jack should be used on level firm ground.**

2. Align the jack head between the two notches located at the jack-up point either the front or the rear section.
3. Fit the groove of the jack head between the notches as illustrated.
4. Loosen each wheel nut one or two turns by turning it anticlockwise with the wheel nut wrench.

   **Do not remove the wheel nuts until the tyre is off the ground.**



Models with wheel lock nuts (where fitted):

If the wheel is equipped with a wheel lock nut, insert the wheel lock key Ⓐ and loosen it as previously described. For wheel lock key details, see ☞ "Wheel lock nuts (where fitted)" later in this section.

5. Assemble the rod and wheel nut wrench to form a handle. Attach it to the jack.
6. To lift the vehicle, securely hold and turn the handle. Carefully raise the vehicle until the tyre clears the ground.

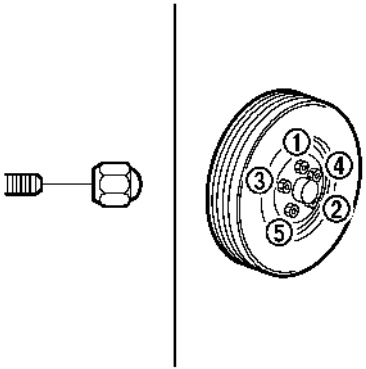
## Removing tyre

1. Remove the wheel nuts.
2. Remove the flat tyre.

**⚠ CAUTION**

**The wheel is heavy. Be sure that your feet are clear of the wheel and use gloves as necessary to avoid injury.**

## Installing spare tyre




**⚠ WARNING**

- **Never use wheel nuts which are not provided with your vehicle. Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.**
- **Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.**
- **The T-type spare tyre is designed for emergency use only.**

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully fit the spare tyre and tighten the wheel nuts with your fingers. Check that all the wheel nuts contact the wheel surface horizontally.

   Models with wheel lock nut (where fitted):

   Insert the wheel lock key into the wheel lock nut and tighten into the wheel finger tight.
3. Tighten the wheel nuts alternately and evenly in the sequence illustrated (① to ⑤), more than 2 times with the wheel nut wrench, until they are tight.

**⚠ CAUTION**

**Do not use a power tool to install the wheel lock nuts (where fitted) with the wheel lock key. Use the wheel nut wrench instead.**

4. Lower the vehicle slowly until the tyre touches the ground.
5. Tighten the wheel nuts with the wheel nut wrench securely, 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.**

## Stowing flat tyre and tools

Securely store the jack and tools in theirs respective storage areas and the damaged wheel in the boot. The spare tyre cradle cannot be used to store the conventional tyre.

Return the spare tyre cradle to its original stored position in the reverse order of removal. For details, see ☞ "Changing flat tyre" earlier in this section.

Spare tyre cradle bolt tightening torque: 64 to 86 N·m (6.6 to 8.7 kg-m, 48 to 63 ft-lb)

### ⚠ WARNING

- **Always make sure that the spare tyre and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.**
- **Make sure that the spare tyre cradle is properly secured in its original stored position after removing the spare tyre.**
- **The spare tyre and small size spare tyre are designed for emergency use. See specific instructions under the heading ☞ "Wheels and tyres" in the "8. Maintenance and do-it-yourself" section.**

## Wheel lock nuts (where fitted)

In order to prevent theft, the specially designed wheel lock nut is installed to each wheel. The wheel lock nut cannot be removed with the commonly used tools. When removing the wheel lock nuts, use the wheel lock key provided with your vehicle.

**Removing the wheel lock nut:**

1. Insert the wheel lock key to the wheel lock nut.
2. To remove the wheel lock nut, turn the wheel lock key anticlockwise using the wheel nut wrench.

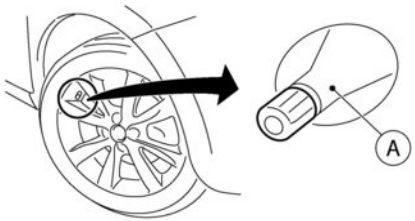
### ⚠ CAUTION

- **Do not use a power tool to remove the wheel lock nuts.**
- **When installing the wheel, tighten the wheel lock nuts to the same tightening torque as the normal wheel nuts, as described earlier.**

**NOTE:**

- **The wheel lock nut has an individual code. A wheel lock key with other than the individual code cannot remove the wheel lock nut. If you lose the wheel lock key, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for a duplicate with the original wheel lock key code.**
- **Record the key number as shown on the key code card on the "Security information" page at the end of this manual and keep it in a safe place, not in the vehicle.**
- **When you ask for a service at a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer, make sure to keep the lock key in the vehicle. Otherwise, wheels cannot be removed and the service cannot be performed.**

## TYRE PRESSURE MONITORING SYSTEM (TPMS) (where fitted)




Ⓐ Tyre valve with sensor

### ⚠ WARNING

- **If the TPMS indicator light illuminates while driving:**
  - **avoid sudden steering manoeuvres**
  - **avoid abrupt braking**
  - **reduce vehicle speed**

- pull off the road to a safe location
- stop the vehicle as soon as possible

- Driving with under-inflated tyres may permanently damage the tyres and increase the likelihood of tyre failure. Serious vehicle damage could occur which may lead to an accident and could result in serious personal injury.
- Check the tyre pressure for all four tyres. Adjust the tyre pressure to the recommended COLD tyre pressure shown on the tyre placard to turn the TPMS indicator light "OFF". In case of a flat tyre, replace it with a spare tyre as soon as possible.
- When a spare tyre is mounted or a wheel is replaced, the TPMS will not function and the TPMS indicator light will flash for approximately 1 minute. The light will remain on after 1 minute. Be sure to follow all instructions for wheel replacement and make sure the TPMS system is mounted correctly.
- Replacing tyres with those not originally specified by NISSAN could affect the proper operation of the TPMS.
- The Genuine NISSAN Emergency Tyre Repair Sealant or equivalent can be used for temporarily repairing a tyre. Do not inject any other tyre liquid or aerosol tyre sealant into the tyres, as this may cause a malfunction of the tyre pressure sensors. (for models not equipped with the emergency tyre puncture repair kit)
- NISSAN recommends using only Genuine NISSAN Emergency Tyre Sealant provided with your vehicle. Other tyre sealants may damage the valve stem seal which can cause the tyre to lose air pressure. Visit a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible after using tyre repair sealant (for models equipped with the emergency tyre puncture repair kit).

## ⚠ CAUTION

- If the vehicle is driven with a flat tyre, this may damage the TPMS sensor for that tyre.
- The TPMS may not function properly when the wheels are equipped with tyre chains or the wheels are buried in snow.
- Do not place metalised film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tyre 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 TPMS indicator light to illuminate. Some examples are:
  - Facilities or electric devices using similar radio frequencies are near the vehicle.
  - If a transmitter set to similar frequencies is being used in or near the vehicle.
  - If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.
- When inflating the tyres and checking the tyre pressure, never bend the valves.
- Use Genuine NISSAN valve caps that comply with the factory-fitted valve cap specifications.
- Do not use metal valve caps.
- Fit the valve caps properly. Without the valve caps the valve and tyre pressure monitor sensors could be damaged.
- Do not damage the valves and sensors when storing the wheels or fitting different tyres.
- Replace the TPMS sensor valve stem (including valve core and cap) when the tyres are replaced due to wear or age. The TPMS sensors can be used again.

The Tyre Pressure Monitoring System (TPMS) monitors the tyre pressure of the four wheels except the spare tyre/wheel (where fitted). When the TPMS indicator light comes on together with the TPMS tyre location indicator light (in the vehicle information display), one or more of the tyres is significantly under-inflated. If the vehicle is being driven with low tyre pressure, the TPMS will activate and TPMS indicator light together with the TPMS tyre location indicator light remains on. This system will deactivate only when tyre pressure is corrected and the vehicle is driven at speeds above 25 km/h (16 MPH).

For more details about the TPMS, see ☞ "Precautions when starting and driving" in the "5. Starting and driving" section.

## REPAIRING FLAT TYRE (Models with emergency tyre puncture repair kit — where fitted)

### ⚠ WARNING

- **Immediately after using the Emergency Tyre Sealant to repair a minor tyre puncture, take your vehicle to a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer to inspect, and repair or replace the tyre. The Emergency Tyre Sealant cannot permanently seal a punctured tyre. Continuing operation of the vehicle without a permanent tyre repair can lead to a crash.**
- **Tyre sealants that do not match the quality of NISSAN Genuine Emergency Tyre Sealant may damage the value stem seal which can cause the tyre to lose air pressure.**

The emergency tyre puncture repair kit (Emergency Tyre Sealant) is supplied with the vehicle instead of a spare tyre. It can be used to temporarily repair minor tyre punctures.

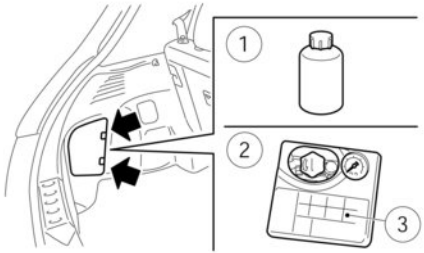
After using the repair kit, see a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible for tyre inspection and repair/replacement.

In case of a flat tyre, follow the instructions as described below.

### ⚠ CAUTION

- **To avoid the emergency tyre puncture kit being damaged during storage or use:**
  - **Only use the emergency tyre puncture repair kit on your vehicle. Do not use it on other vehicles.**
  - **Only use the kit to inflate the tyres of your vehicle and to check the vehicle's tyre pressure.**
  - **Only plug the compressor into a 12-volt DC car power point.**
  - **Keep the kit free of water and dirt.**
  - **Do not disassemble or modify the kit.**
  - **Do not drop the kit or allow hard impacts to the kit.**
- **Do not use the emergency tyre puncture repair kit under the following conditions. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle 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 more.**
  - **When the tyre sidewall is damaged.**
  - **When the vehicle has been driven with extremely low tyre pressure.**
  - **When the tyre has come off the inside or the outside of the wheel.**
  - **When the tyre wheel is damaged.**
  - **When two or more tyres are flat.**

### Getting emergency tyre puncture repair kit




Take out the emergency tyre puncture repair kit located aside of the boot area. The repair kit consists of the following items:

① Tyre sealant bottle

② Air compressor

③ Speed restriction sticker

## Before using emergency tyre puncture repair kit

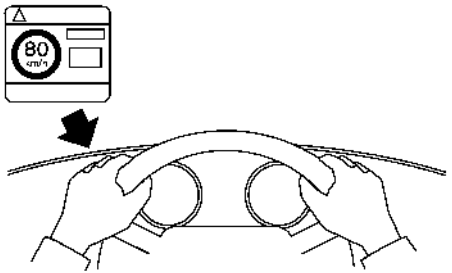
- If any foreign object (for example, a screw or nail) is embedded in the tyre, do not remove it.
- Check the expiration date of the sealant, shown on the label attached to the bottle. Never use a sealant which has passed its expiration date.

## Repairing tyre

**⚠ WARNING**

**Observe the following precautions when using the tyre repair compound.**

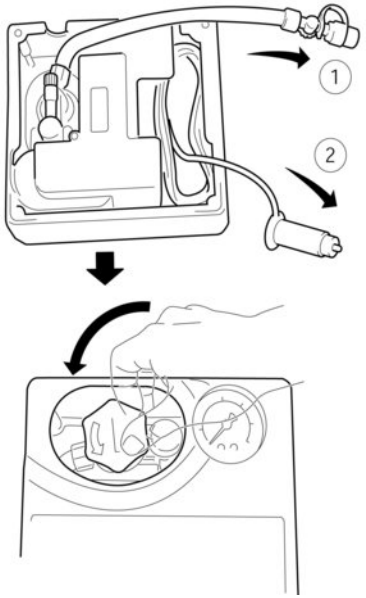
- **Swallowing the compound is dangerous. Immediately drink as much water as possible and seek prompt medical assistance.**
- **Rinse well with lots of water if the compound comes into contact with skin or eyes. If irritation persists, seek prompt medical attention.**
- **Keep the repair compound out of the reach of children.**



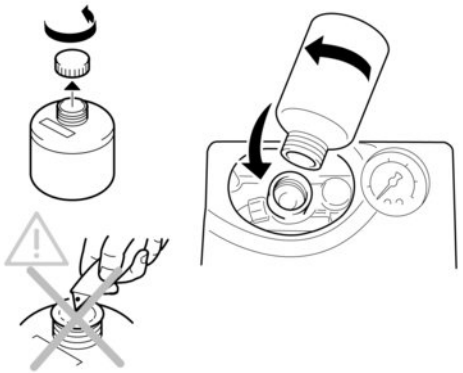

1. Remove the speed restriction sticker from the air compressor, then place it in a location where the driver can see it while driving.

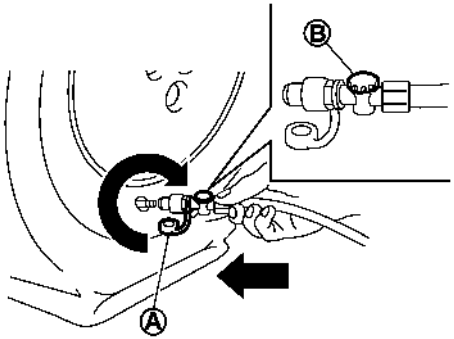
**⚠ CAUTION**

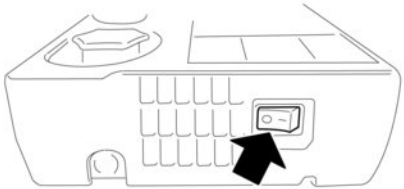
**Do not put the speed restriction label on the steering wheel pad, the speedometer or the warning light locations.**




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.





3. Remove the cap from the tyre sealant bottle, and screw the bottle clockwise onto the bottle holder of the air compressor.

   **NOTE:**
   **Leave the bottle seal intact. Screwing the bottle onto the bottle holder will pierce the seal of the bottle.**

4. Remove the cap from the tyre valve on the flat tyre.
5. Remove the protective cap Ⓐ of the hose and screw the hose securely onto the tyre valve. Make sure that the pressure release valve Ⓑ is securely tightened. Make sure that the air compressor switch is in the OFF (O) position, then insert its power plug into the power outlet in the vehicle.
6. Push the power switch to the ACC position. Then push the compressor switch to the ON (–) position and inflate the tyre up to the pressure that is specified on the tyre and loading information label affixed to the driver's side centre pillar if possible, or to the minimum of 180 kPa (26 psi). Turn the air compressor off briefly in order to check the tyre pressure with the pressure gauge.

   If the tyre is inflated to a pressure higher than the specified pressure, lower the tyre pressure by releasing air with the pressure release valve.

**⚠ CAUTION**

**Do not operate the compressor over 10 minutes. Doing so may discharge the 12-volt battery.**

**NOTE:**
**The compressor tyre pressure gauge may show a pressure reading of 600 kPa (87 psi) for about 30 seconds while inflating the tyre. The pressure gauge is indicating the pressure inside the sealant can. When the sealant has been injected into the tyre the pressure gauge will drop and indicate actual tyre pressure.**

**⚠ WARNING**

- **To avoid serious personal injury while using the emergency tyre puncture repair kit:**
  - **Securely tighten the compressor hose to the tyre valve. Failure to do so can cause the sealant to spray into the air and get into your eyes or on your skin.**
- **Do not stand directly beside the damaged tyre while it is being inflated because of the risk of rupture. If there are any cracks or bumps, turn the compressor off immediately.**

If the tyre pressure does not increase to **180 kPa (26 psi) within 10 minutes**, the tyre may be seriously damaged and **the tyre cannot be repaired with this tyre repair kit.** Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

7. When the tyre pressure is at the specified value, turn the air compressor off. If the tyre cannot be inflated to the specified value, the air compressor can be turned off at the minimum of 180 kPa (26 psi). Remove the power plug from the power outlet and quickly remove the hose from the tyre valve. Install the tyre valve cap. Properly storage the emergency tyre puncture repair kit in the boot area.

**⚠ CAUTION**

**To avoid serious personal injury when stowing the emergency tyre puncture repair kit:**

**Keep the sealant bottle screwed into the compressor. Failure to do so can cause the sealant to spray into the air and get into your eyes or on your skin.**

8. Immediately drive the vehicle for 10 minutes or 10 km (6 miles) at a speed of 80 km/h (50 MPH) or less within 1 minute after following step 7.
9. After driving, make sure that the air compressor switch is in the OFF position, then screw the hose securely onto the tyre valve. Check the tyre pressure with the pressure gauge. The temporary repair is completed if the tyre pressure does not drop.

   Make sure the pressure is adjusted to the pressure that is specified on the tyre placard before driving.
10. If the tyre pressure drops, repeat step 5 to 9. If the pressure drops again or remains under 130 kPa (19 psi), **the tyre cannot be repaired with this tyre repair kit**. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

    The sealant bottle and hose can not be reused to repair another punctured tyre. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer to purchase replacements.

## After repairing tyre

See a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for tyre repair/replacement as soon as possible.

**⚠ WARNING**

- **After using Emergency Tyre Sealant to repair a minor tyre puncture, do not drive the vehicle at speeds higher than 80 km/h (50 MPH).**
- **Immediately after using Emergency Tyre Sealant to repair a minor tyre puncture, take your vehicle to a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer to inspect, and repair or replace the tyre. The Emergency Tyre Sealant cannot permanently seal a punctured tyre. Continuing operation of the vehicle without a permanent tyre repair can lead to an accident.**
- **If you used Emergency Tyre Sealant to repair a minor tyre puncture, your knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer will also need to replace the tyre.**
- **NISSAN recommends using only NISSAN Genuine Emergency Tyre Sealant as provided with your vehicle. Other tyre sealants may damage the valve stem seal which can cause the tyre to lose air pressure.**

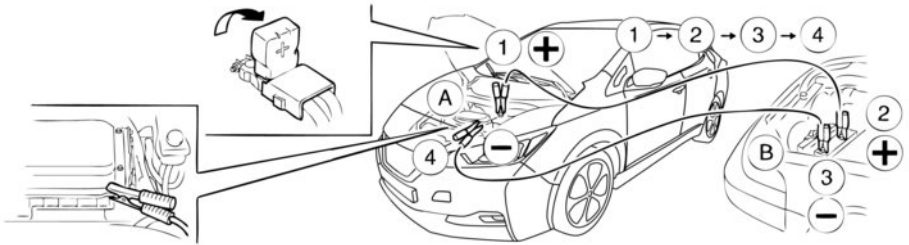
## JUMP STARTING

To start the electric vehicle system with a booster battery, the instructions and precautions below must be followed.

Jump starting provides power to the 12-volt system to allow the electrical systems to operate. The electrical systems must be operating to allow the Li-ion battery to be charged. Jump starting does not charge the Li-ion battery. The Li-ion battery must be charged before the vehicle can be driven.

**⚠ WARNING**

- **If done incorrectly, jump starting can lead to a 12-volt battery explosion, resulting in severe injury or death. It could also damage your vehicle.**
- **Explosive hydrogen gas is always present in the vicinity of the 12-volt battery. Keep all sparks and flames away from the 12-volt battery.**
- **Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulphuric acid solution that can cause severe burns. If the fluid comes into contact with anything, immediately flush the contacted area with water.**
- **Keep the 12-volt battery out of the reach of children.**
- **The booster battery must be rated at 12 volt. Use of an improperly rated battery can damage your vehicle.**
- **Whenever working on or near a 12-volt battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewellery. Do not lean over the 12-volt battery when jump starting.**
- **Do not attempt to jump start a frozen battery. It could explode and cause serious injury.**
- **Your vehicle has an automatic cooling fan. It could come on at any time. Keep hands and other objects away from it.**




**⚠ WARNING**

**Always follow the instructions below. Failure to do so could result in damage to the Power Delivery Module (PDM) and cause personal injury.**

**⚠ CAUTION**

- **Do not attempt to perform a jump start on the 12-volt battery at the same time that the Li-ion battery is being charged. Doing so may damage the vehicle or charging equipment and could cause an injury.**

- **The LEAF cannot be used as a booster vehicle because it cannot supply enough power to start a petrol or diesel engine vehicle. However it is no problem using a petrol or diesel engine vehicle to supply power to the 12-volt battery of the LEAF.**

1. If the booster battery is in another vehicle Ⓑ, position the two vehicles (Ⓐ and Ⓑ) to bring their 12-volt batteries into close proximity to each other.

   **Do not allow the two vehicles to touch.**

2. Apply the parking brake.
3. Push the P position switch on the shift lever to place the vehicle in the P (Park) position.
4. Switch off all unnecessary electrical systems (headlights, heater, air conditioner, etc.).
5. Place the power switch in the OFF position.
6. Remove the vent caps on the 12-volt battery (where fitted). Cover the battery with a firmly wrung out moist cloth to reduce the hazard of an explosion.
7. Connect jumper cables in the sequence as illustrated (① → ② → ③ → ④).

   **If the 12-volt battery is discharged, the power switch cannot be moved from the OFF position. Connect the jumper cables to the booster vehicle Ⓑ before pushing the power switch.**

**⚠ CAUTION**

- **Always connect positive (+) to positive (+) and negative (–) to body ground (for example, as illustrated), not to the 12-volt battery.**
- **Make sure the jumper cables do not touch moving parts in the motor compartment and that the cable clamps do not contact any other metal.**

8. Start the engine of the booster vehicle Ⓑ.
9. While the booster vehicle Ⓑ engine is running, place the electric vehicle system in the READY to drive position.

**⚠ CAUTION**

**If the system does not start right away, push the power switch to the OFF position and wait 10 seconds before trying again.**

10. After starting the electric vehicle system of your vehicle, carefully disconnect the negative cable and then the positive cable (④ → ③ → ② → ①) and keep the READY to drive position over 20 minutes to charge the 12-volt battery.
11. Install the vent caps (where fitted). Be sure to dispose of the cloth used to cover the vent holes because it may be contaminated with corrosive acid.
12. If necessary connect the vehicle to a charging station to charge the Li-ion battery, See "" in the "CH. " section. The vehicle can not be driven until the Li-ion battery is charged.

**NOTE:**
**If it is not possible to turn the system ON by following this procedure, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer immediately.**

## IF THE LI-ION BATTERY BECOMES COMPLETELY DISCHARGED

If the power limitation indicator light  illuminates, the traction motor output is limited resulting in reduced vehicle speed. Stop the vehicle in a safe location before the Li-ion battery becomes completely discharged and no power is available to drive the vehicle. Contact Roadside assistance, see your NISSAN LEAF Warranty Booklet and Maintenance Record.

If possible, place the power switch in the **OFF** position while waiting for assistance to prevent discharging the 12-volt battery.

**NOTE:**
**If the Li-ion battery becomes completely discharged:**

- **The vehicle is automatically placed in the ON position and it will not be possible to switch to the READY position.**
- **The vehicle is automatically switched to the N (Neutral) position and it will not be possible to drive the vehicle.**

**⚠ WARNING**

**If the vehicle is in the N (Neutral) position and the Li-ion battery and the 12-volt battery become completely discharged, the vehicle can not be placed in the P (Park) position, and the parking brake cannot be applied. If this occurs, place suitable blocks at both the front and back of a wheel to prevent the vehicle from moving. Failure to block a wheel may allow the vehicle to move unexpectedly which may result in serious personal injury or death.**

To place the vehicle in the **READY** position so the vehicle can be driven, charge the Li-ion battery until the driving range on the instrument panel changes from "---" to a numeric distance.

**NOTE:**

- **Some vibration may occur when the vehicle is stopped in case the Li-ion battery becomes completely discharged. This is not a malfunction.**
- **If the Li-ion battery is completely discharged, it is required to charge until the low battery charge warning light (yellow) turns off (white).**

## PUSH STARTING

Do not attempt to start the system by pushing the vehicle.

**⚠ CAUTION**

**An electric vehicle cannot be push-started or tow-started. Attempting to do so may cause traction motor damage.**

## TOWING YOUR VEHICLE

When towing your vehicle, local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. Local service operators are familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends that you have a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions.

**⚠ WARNING**

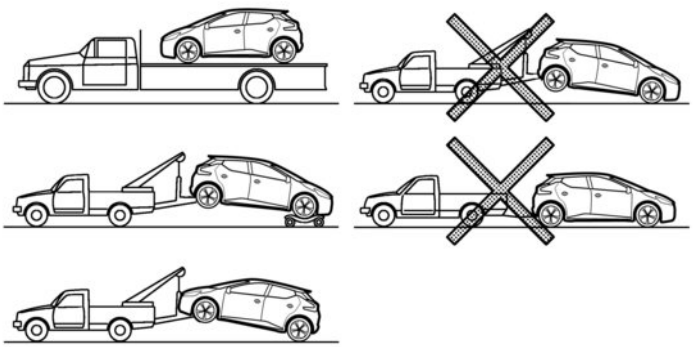
- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

**⚠ CAUTION**

- **When towing, make sure that the axles, steering system and power train are in working condition. If any unit is damaged, dollies must be used.**
- **Always attach safety chains before towing.**

For information about towing your vehicle behind a recreational vehicle (RV), see ☞ "Flat towing" in the "9. Technical information" section.

## TOWING RECOMMENDED BY NISSAN



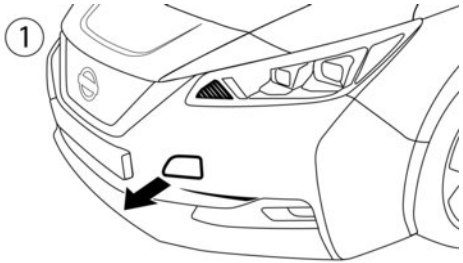
NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or that the vehicle be placed on a flatbed truck as illustrated.

**⚠ CAUTION**

- **Never tow with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the motor.**

- **When towing this vehicle with the front wheels on towing dollies:**
  - **Place the power switch in the ON position. Secure the steering wheel in the straight-ahead position with a rope or similar device.**
  - **Place the shift lever in the N (Neutral) position.**
- **When towing this vehicle with the rear wheels on the ground (if you do not use towing dollies): Always release the parking brake.**

## VEHICLE RECOVERY (freeing stuck vehicle)



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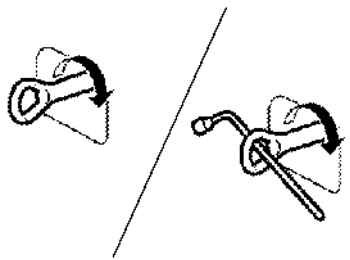


Front

**⚠ WARNING**

- **Stand clear of a stuck vehicle.**
- **Do not spin your tyres at high speed. This could cause them to explode, which could result in serious injury. Parts of the vehicle could also overheat and be damaged.**

## Pulling a stuck vehicle

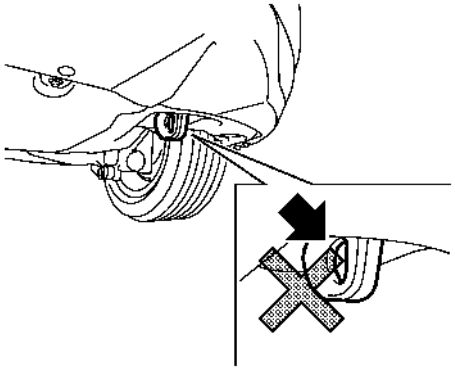
**Do not use the tie down hook for towing or vehicle recovery.**

**Front:**

1. Using a suitable tool wrapped with a cloth, remove the hook cover from the bumper.
2. Securely install the recovery hook as illustrated. (The hook is stored in the left side of the boot.)

Make sure that the hook is properly stored and secured in its original location after use.

**Rear:**



Rear

**Do not use the tie down hook to pull the vehicle.**

**⚠ CAUTION**

- **Tow chains or cables must be attached only to the vehicle recovery hook or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.**
- **Do not use the vehicle tie down hook to free a vehicle stuck in sand, snow, mud, etc.**
- **Never tow a vehicle using the vehicle tie down hook or recovery hook.**
- **Always pull the cable straight out from the front of the vehicle. Never pull on the vehicle at an angle.**
- **Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.**
- **Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.**

## Rocking a stuck vehicle

If the vehicle is stuck in sand, snow, mud, etc., try to free it by following the procedure below.

1. Turn off the Electronic Stability Programme (ESP) system.
2. Make sure the area in front and behind the vehicle is clear of obstructions.
3. Turn the steering wheel right and left to clear an area around the front tyres.
4. Slowly rock the vehicle forward and backward.
   - Shift back and forth between the R (Reverse) and D (Drive) positions.
   - Apply the accelerator as little as possible to maintain the rocking motion.
   - Release the accelerator pedal before shifting between R and D.
   - Do not spin the tyres above 55 km/h (35 MPH).
5. If the vehicle cannot be freed after a few attempts, contact a professional towing service to recover the vehicle.

NOTE

# 7 Appearance and care


Cleaning exterior ..... 7-2
- Washing ..... 7-2
- Waxing ..... 7-2
- Removing spots ..... 7-2
- Underbody ..... 7-3
- Glass ..... 7-3
- Wheels ..... 7-3
- Chrome parts ..... 7-3
- Tyre dressing ..... 7-3

Cleaning interior ..... 7-4
- Air fresheners ..... 7-4
- Floor mats ..... 7-4
- Seat belts ..... 7-5

Corrosion protection ..... 7-5
- Most common factors contributing to vehicle corrosion ..... 7-5
- Environmental factors influence the rate of corrosion ..... 7-5
- To protect your vehicle from corrosion ..... 7-5

## CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surfaces, wash your vehicle as soon as you can:

- After a rainfall to prevent possible damage from acid rain.
- After driving on coastal roads.
- 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 surface.

Whenever possible, store or park your vehicle inside a garage or in a covered area.

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

Wash dirt off the vehicle with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

**⚠ CAUTION**

- **Do not use car washes that use acid in the detergent. Some car washes, especially brushless ones, use some acid for cleaning. The acid may react with some plastic vehicle components, causing them to crack. This could affect their appearance, and also could cause them not to function properly. Always check with your car wash to confirm that acid is not used.**
- **Do not wash the vehicle with strong household soap, strong chemical detergents, petrol or solvents.**
- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the 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.**

Rinse the vehicle thoroughly with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and bonnet are particularly vulnerable to the effects of road salt. Therefore, these areas must be regularly cleaned. Make sure that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

Avoid leaving water spots on the paint surface by using a damp chamois to dry the vehicle.

### WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before re-applying wax.

A knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compound or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

### 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer or any automotive accessory stores.

## UNDERBODY

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

## 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.**

## 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.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tyre bead.
- NISSAN recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

**⚠ CAUTION**

**Do not use abrasive cleaners when washing the wheels.**

### Aluminium alloy wheels

Wash regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. Salt could discolour the wheels if not removed.

**⚠ CAUTION**

**Follow the directions below to avoid staining or discolouring 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 chrome parts regularly with a non- abrasive chrome polish to maintain the finish.

## TYRE DRESSING

NISSAN does not recommend the use of tyre dressings. Tyre manufacturers apply a coating to the tyres to help reduce discoloration of the rubber. If a tyre dressing is applied to the tyres, it may react with the coating and form a compound. This compound may come off the tyre while driving and stain the vehicle paint.

If you choose to use a tyre dressing, take the following precautions:

- Use a water-based tyre dressing. The coating on the tyre dissolves more easily with an oil-based tyre dressing.
- Apply a light coat of tyre dressing to help prevent it from entering the tyre tread/grooves (where it would be difficult to remove).
- Wipe off excess tyre dressing using a dry towel. Make sure the tyre dressing is completely removed from the tyre tread/grooves.
- Allow the tyre dressing to dry as recommended by tyre dressing manufacturer.

## 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 cloth dampened only with water, to clean the meter and gauge lens.

**⚠ CAUTION**

- **Never use benzine, thinner, or any similar material.**
- **Small dirt particles can be abrasive and damaging to the 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 may damage the leather's 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 cover.**

### AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

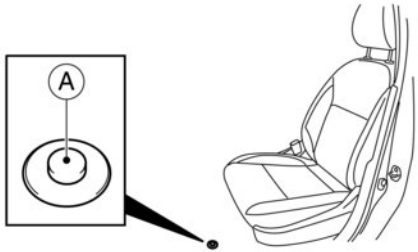
- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using air fresheners.

### FLOOR MATS

The use of genuine NISSAN floor mats (where fitted) can extend the life of your vehicle carpet and make it easier to clean the interior. Regardless of what mats are used, be sure they are fitted for your vehicle and are properly positioned in the foot well to prevent interference with pedal operation. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

#### Floor mat positioning aid (driver's side only)




This vehicle includes front floor mat brackets to act as floor mat positioning aid. NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has grommet holes incorporated in it. Position the mat by placing the floor mat bracket hook through the floor mat grommet hole while centering the mat in the floorwell.

Periodically check to make certain the mats are properly positioned.

## SEAT BELTS

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" in the "1. Safety — seats, seat belts and supplemental restraint system" section.

**⚠ 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.**

# CORROSION PROTECTION

## 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 paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

## ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

### Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

### Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing, where atmospheric pollution exists, or where road salt is used.

### Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

### Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate 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 and repair it as soon as possible.
- Keep drain holes at the bottom 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 brake lines, brake cables, floor pan and fenders.

**In winter, the underbody must be cleaned periodically.**

For additional protection against rust and corrosion, which may be required in some areas, consult a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

# 8 Maintenance and do-it-yourself


Maintenance requirement ..... 8-2
Scheduled maintenance ..... 8-2
General maintenance ..... 8-2
Where to go for service ..... 8-2
General maintenance ..... 8-2
Explanation of maintenance items ..... 8-2
Maintenance precautions ..... 8-4
Motor compartment ..... 8-5
Cooling system ..... 8-6
Checking coolant level ..... 8-6
Changing coolant ..... 8-6
Reduction gear fluid ..... 8-7
Brake fluid ..... 8-7
Window washer fluid ..... 8-8
12-volt Battery ..... 8-9
Battery (Maintenance free battery) ..... 8-9
Jump starting ..... 8-10
Wiper blades ..... 8-10
Cleaning ..... 8-10
Front window wiper replacement ..... 8-10
Rear window wiper blade ..... 8-12
Brakes ..... 8-12
Brake pad wear warning ..... 8-12
Fuses ..... 8-12
Motor compartment ..... 8-12
Passenger compartment ..... 8-14
Intelligent Key battery replacement ..... 8-15
Lights ..... 8-16
Headlights ..... 8-17
Exterior and interior lights ..... 8-18
Wheels and tyres ..... 8-19
Tyre pressure ..... 8-19
Types of tyres ..... 8-19
Snow chains ..... 8-20
Tyre rotation ..... 8-20
Tyre wear and damage ..... 8-21
Tyre age ..... 8-21
Replacing wheels and tyres ..... 8-21
Wheel balance ..... 8-21
Spare tyre (where fitted) ..... 8-22
Emergency tyre puncture repair kit (where fitted) ..... 8-22
Care of wheels ..... 8-22

## MAINTENANCE REQUIREMENT

Some day-to-day and regular maintenance is essential to maintain your vehicle's good mechanical condition, as well as its electric vehicle system performance

It is the owner's responsibility to make sure that the scheduled 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, both required and optional scheduled maintenance items are described and listed in the separately provided Warranty Information and Maintenance booklet. You must refer to that guide to ensure that necessary maintenance is performed on your NISSAN 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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

### WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and serviced by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## GENERAL MAINTENANCE

During the 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 smell, be sure to check for the cause or have a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer do it promptly. In addition, you should notify a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer if you think that repairs are required.

When performing any checks or maintenance work, see "Maintenance precautions" later in this section.

### EXPLANATION OF MAINTENANCE ITEMS

**Additional information on the following items with "*" is found later in this section.**

#### Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

**Doors and bonnet:**

Check that all doors and the bonnet operate smoothly as well as the tailgate. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the bonnet 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.

**Tyres*:**

Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tyres, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

**Tyre rotation*:**

In the case that front and rear tyres are same size; tyres should be rotated every 10,000 km (6,000 miles). Tyres 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 tyre rotation is completed.

In the case that front tyres are different size from rear tyres, tyres cannot be rotated.

The timing for tyre rotation may vary according to your driving habits and the road surface conditions.

**Tyre Pressure Monitoring System (TPMS) transmitter components:**

Replace the TPMS sensor valve stem (including valve core and cap) when the tyres are replaced due to wear or age. The TPMS sensors can be used again.

**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 tyre 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.

**Windscreen:**

Clean the windscreen on a regular basis. Check the windscreen 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 the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing scheduled 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. Be sure to keep the floor mat away from the pedal.

**Parking brake:**

Check the parking brake operation regularly. Check that the lever (where fitted) or the pedal (where fitted) 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.

**Windscreen defogger:**

Check that the air comes out of the defogger outlets properly and in good quantity when operating the heater or air conditioner.

**Windscreen wiper and washer*:**

Check that the wipers and washers operate properly and that the wipers do not streak.

## Under the bonnet and vehicle

The maintenance items listed here should be checked periodically.

**12-volt 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 fluid level*:**

Make sure that the brake fluid level is between the <MAX> and <MIN> lines on the reservoir.

**Coolant level*:**

Check the coolant level when the high voltage parts are cold. Make sure that the coolant level is between the <MAX> and <MIN> line on the reservoir.

**Fluid leaks:**

Check under the vehicle for 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, check for a cause and have it corrected immediately.

**Windscreen 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 that should be closely observed.

### ⚠ WARNING

- **The electric vehicle system uses high voltage up to approximately DC 400 volt. The system can be hot during and after starting and when the vehicle is shut off. Be careful of both the high voltage and the high temperature. Obey the labels that are attached to the vehicle.**
- **Never disassemble, remove or replace high-voltage parts and cables as well as their connectors. High-voltage cables are coloured orange.**
  **Disassembling, removing or replacing those parts or cables can cause severe burns or electric shock that may result in serious injury or death. The vehicle high voltage system has no user serviceable parts. Take your vehicle to a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for any necessary maintenance.**
- **Park the vehicle on a level surface, apply the parking brake securely and chock the wheels to prevent the vehicle from moving. Push the P position switch on the shift lever or place the vehicle into the N (Neutral) position.**
- **If you must work while the electric vehicle system is turned on, keep hands, clothing, hair and tools away from moving fans and any other moving parts.**
- **Make sure that the power switch is in the OFF or LOCK position when performing any part replacement or repair.**
- **It is advisable to secure or remove any loose clothing and remove any jewellery, such as rings, watches, etc. before working on your vehicle.**
- **Always wear eye protection whenever you work on your vehicle.**
- **Do not get under a vehicle that is supported by a jack.**
- **Keep smoking materials, flames and sparks away from the 12-volt battery.**

### ⚠ CAUTION

- **Do not work under the bonnet while the motor compartment is hot. Place the power switch in the OFF position and wait until the motor compartment has cooled down.**
- **Avoid direct contact with used coolant. Improperly disposed coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for the disposal of vehicle fluids.**

- **Never connect or disconnect the 12-volt battery or any transistorised component while the power switch is in the ON position.**
- **Your vehicle is equipped with an automatic cooling fan. It may activate at any time without warning, even if the power switch is not in the ACC, ON or READY to drive position. To avoid injury, always disconnect the negative 12–volt battery cable before working near the fan.**
- **Before performing any electrical maintenance work on the vehicle such as the battery, fuses or bulb replacement, confirm the following:**

– **The charge connector is removed from the vehicle.**

– **The Climate Ctrl. Timer is not active or operating. See ☞ "Climate Control Timer" in the "4. Display screen, heater and air conditioner (climate control system)" section and ☞ "Climate control system" in the "4. Display screen, heater and air conditioner (climate control system)" section.**

– **The 12-volt battery is not being charged by the Li-ion battery and that all charging status indicator lights are off. See ☞ "Li-ion battery" in the "EV. Electric vehicle overview" section and ☞ "Charging related indicator lights" in the "CH. Charging" section.**

- **The power switch is in the OFF position. Place the power switch in the ON position and then in the OFF position to prevent the 12-volt battery automatically being charged by the Li-ion battery. See ☞ "Charging the 12-volt battery" in the "EV. Electric vehicle overview" section.**

This "8. Maintenance and do-it-yourself" section gives instructions regarding only those items that are relatively easy for an owner to perform.

You should be aware that incomplete or improper servicing may result in operating difficulties and could affect your warranty coverage. **If in doubt about any servicing, we recommend that it be done by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## MOTOR COMPARTMENT

**For an overview of the motor compartment, see ☞ "Motor compartment" in the "0. Illustrated table of contents" section.**

## COOLING SYSTEM

### ⚠ WARNING

- **Never remove the coolant tank cap when the motor compartment is hot. Wait until the motor compartment cools down.**
- **Coolant is poisonous and should be stored carefully in marked containers out of the reach of children.**

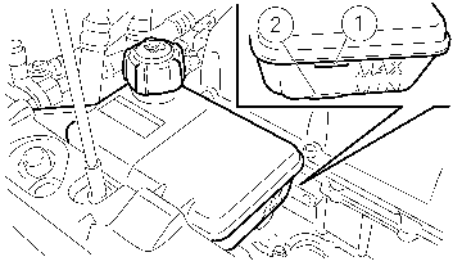
The cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

### ⚠ CAUTION

- **When adding or replacing coolant, be sure to use only a Genuine NISSAN Coolant or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralised or distilled water.**
- **The use of other types of coolant solutions may damage the high voltage cooling system parts.**
- **Never use any additives in the coolant such as radiator sealer in the cooling system. This may cause damage to electrical equipment such as the motor and inverter.**

The coolant tank is equipped with a special type of coolant tank cap. To minimise the risk of damage to the motor compartment, NISSAN recommends the use of a Genuine NISSAN coolant tank cap.

### CHECKING COOLANT LEVEL




Check the coolant level **in the reservoir when the high voltage parts are cold.** If the coolant level is below the <MIN> level ②, open the reservoir cap and add coolant up to the <MAX> level ①.

Tighten the cap securely after adding coolant.

**If the cooling system frequently requires coolant, have it checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

### CHANGING COOLANT

Major cooling system repairs should be performed by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. The service procedures can be found in the appropriate NISSAN Service Manual.

**Improper servicing can result in reduced heater performance.**

### ⚠ WARNING

- **To avoid the danger of being scalded, never change the coolant when the motor compartment is hot.**
- **Never remove the coolant tank cap when the motor compartment 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.**

**Coolant must be disposed of properly. Check your local regulations.**

## REDUCTION GEAR FLUID

When checking or replacement is required, we recommend a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for servicing.

### ⚠ CAUTION

- **Use only Genuine NISSAN Matic S ATF. Do not mix with other fluids.**
- **Using reduction gear fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and reduction gear durability, and may damage the reduction gear, which is not covered by the warranty.**

## BRAKE FLUID

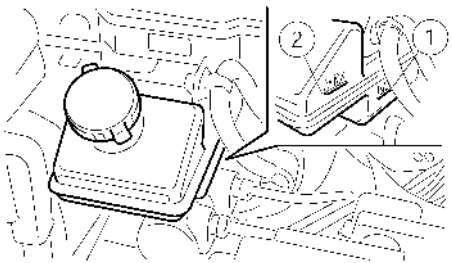
For additional brake fluid information, see ☞ "Recommended fluids/lubricants and capacities" in the "9. Technical information" section or ☞ "Vehicle identification" in the "9. Technical information" section of this manual.

### ⚠ 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 brake performance.**
- **Clean the filler cap before removing.**
- **Brake fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**
- **Do not overfill the brake fluid reservoir, overfilling can damage the brake system.**

### ⚠ CAUTION

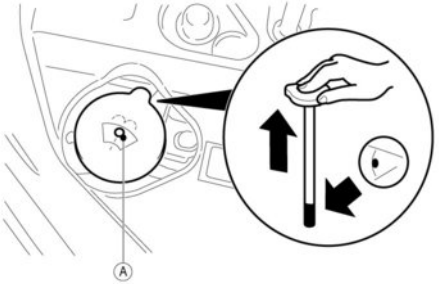
**Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.**




Check the fluid level in the reservoir. If the fluid is below the <MIN> line ① or the brake warning light illuminates, add fluid up to the <MAX> line ②.
(For recommended type of fluid, see ☞ "Recommended fluids/lubricants and capacities" in the "9. Technical information" section)

If fluid must be added frequently, the system should be checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## WINDOW WASHER FLUID




**⚠ WARNING**

**Anti-freeze is poisonous and should be stored carefully in marked containers out of the reach of children.**

To check the fluid level, place your finger over the hole Ⓐ, then remove the cap/tube assembly from the reservoir. If the level is low in the tube, add fluid in the reservoir.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windscreen washer anti-freeze. Follow the manufacturer's instructions for the mixture ratio.

Fill the window washer fluid reservoir periodically.

Refill the reservoir more frequently when driving conditions require the use of an increased amount of window washer fluid.

**⚠ CAUTION**

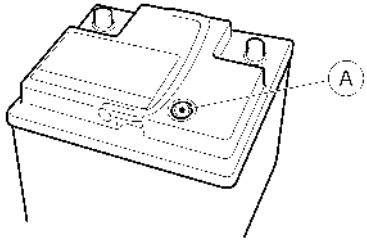
- **Do not substitute anti-freeze coolant for window washer solution. This may result in damage to the paint.**
- **Always use window washer fluid recommended by NISSAN.**

## 12-VOLT BATTERY

| Caution symbols for battery | | | ⚠ WARNING |
|---|---|---|---|
| ① |  | No smoking<br>No exposed flames<br>No sparks | Never smoke around the battery. Never expose the 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 the battery. Keep the battery out of 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 eyesight loss 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. |

- Keep the 12-volt battery surface clean and dry. Clean the 12-volt battery with a solution of baking soda and water.
- Make sure the terminal connections are clean and securely tightened.
- An improperly disposed 12–volt battery can harm the environment. Always conform to local regulations for battery disposal.

### BATTERY (Maintenance free battery)




For a maintenance free battery it is not required to check the fluid level. However, NISSAN recommends to visually check the green indicator Ⓐ status periodically. If it is not visible, replace the battery as soon as possible.

If battery replacement or check is required, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## JUMP STARTING

Jump starting provides power to the 12-volt system to allow the electrical systems to operate. The electrical systems must be operating to allow the Li-ion battery to be charged. Jump starting does not charge the Li-ion battery. The Li-ion battery must be charged before the vehicle can be driven.

If jump starting is necessary, see ☞ "Jump starting" in the "6. In case of emergency" section. If the power switch does not switch to the READY to drive position by jump starting, the 12-volt battery may have to be replaced. Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

# WIPER BLADES

## CLEANING

If the windscreen is not clear after using the windscreen washer or if a wiper blade chatters when running, wax or other material may be on the blade or windscreen.

Clean the outside of the windscreen with a washer solution or a mild detergent. The windscreen is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If the windscreen is still not clear after cleaning the blades and using the wiper, replace the blades.

### ⚠ CAUTION

- **After wiper blade replacement, return the wiper arm to its original position. Otherwise it may be damaged when the bonnet is opened.**
- **Make sure the wiper blade contacts the glass. Otherwise, the arm may be damaged from wind pressure.**
- **Do not open the bonnet when the front wiper is in the servicing position otherwise it can damage the paint surface of the bonnet.**
- **Worn windscreen wiper blades can damage the windscreen and impair driver vision.**
- **Debris or contamination can get trapped between the blade rubber and wiper arm. This can lead to streaking on the windscreen.**

## FRONT WINDOW WIPER REPLACEMENT

Replace the wiper blades if they are worn.

### Pulling up the wiper arm

### ⚠ CAUTION

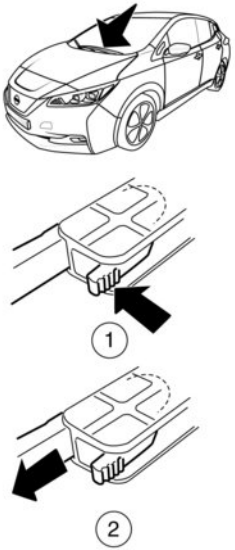
- **The wiper arm is spring loaded. When lifting the wiper arm make sure it cannot impact the windscreen. Otherwise it may damage the windscreen.**
- **Do not operate the windscreen wiper while the arm is pulled up. The wiper arm or bonnet may be damaged.**

1) Place the power switch in the **OFF** position.
2) Lift the wiper arm and away from the windscreen.

**To return to normal operation after wiper blades replacement:**

1) Gently return the wiper arm to the down position (on the windscreen).
2) Place the power switch in the **ON** position.

## Replacement

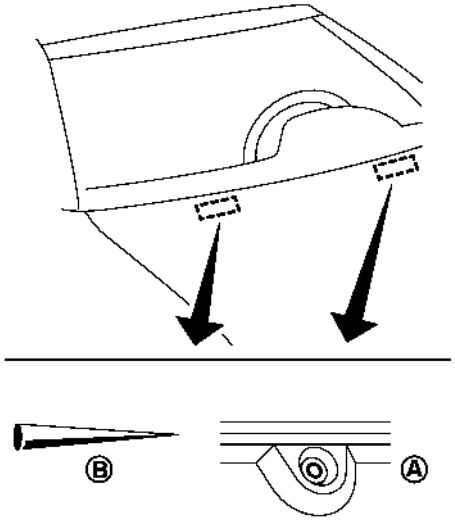



1. Lift the wiper arm and away from the windscreen.
2. While holding the wiper arm, rotate the top of the wiper blade clockwise until it slides out of the wiper arm.
3. Insert the new wiper blade onto the wiper arm at the same angle.
4. Rotate the wiper blade so that the dimple is in the groove.
5. Gently return the wiper arm to the down position (on the windscreen).

**⚠ CAUTION**

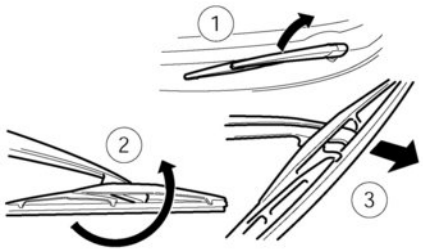
- **After wiper blade replacement, return the wiper arms to its original position; otherwise it may be damaged when the bonnet is opened.**
- **Make sure the wiper blades contact the glass; otherwise the arm may be damaged by wind pressure.**

## Windscreen washer nozzle




Be careful not to clog the washer nozzle Ⓐ. This may cause improper windscreen washer operation. If the nozzle is clogged, remove any objects with a needle or small pin Ⓑ. Be careful not to damage the nozzle.

## REAR WINDOW WIPER BLADE




1. Lift the wiper arm.
2. Hold and rotate carefully the wiper blade anti-clockwise until the blade becomes free.
3. Insert the new wiper blade onto the wiper arm and snap it into place.
4. Return the wiper arm to its original position.

Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer if checking or replacement is required.

## BRAKES

If the brakes do not operate properly, have the brakes checked by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

**⚠ WARNING**

**Do not adjust the height of the brake pedal. Doing so could alter the effectiveness of the brakes, which could result in a serious accident and personal injury. If adjustment is required, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

### BRAKE PAD WEAR WARNING

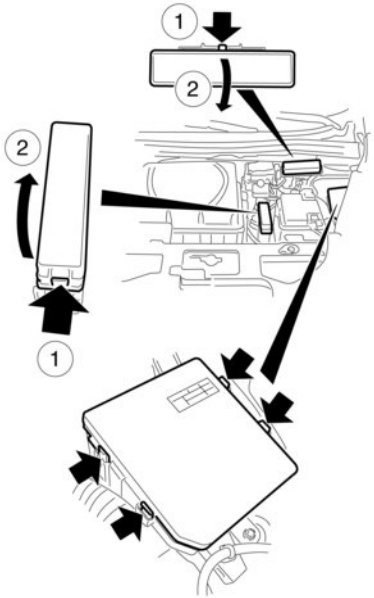
The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard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

Under some driving or climate conditions, occasional brake squeak, squeal or other noise 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 the NISSAN Warranty Booklet and Maintenance Record.

## FUSES

### MOTOR COMPARTMENT



**⚠ WARNING**

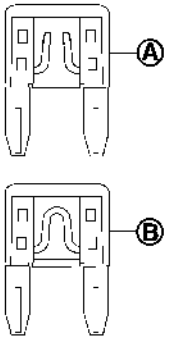
**Never touch, disassemble, remove or replace the high-voltage parts and cables, as well as their connectors. High-voltage cables are coloured orange. Touching, disassembling, removing or replacing those parts and cables can cause severe burns or electric shock that may result in serious injury or death.**

**⚠ 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.**

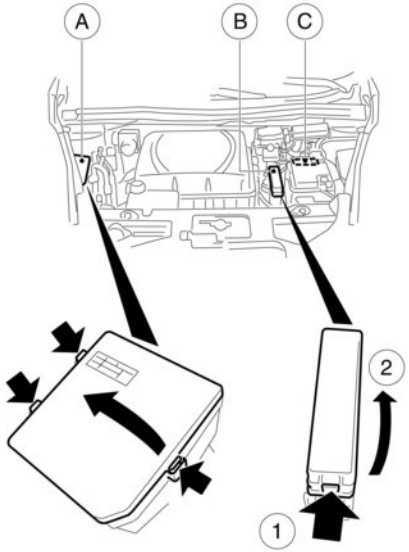
If any electrical equipment does not operate, check for an open fuse.

1. Confirm that the power switch and the headlight switch are turned off.
2. Open the bonnet.
3. Remove the fuse/fusible link holder cover.
4. Locate the fuse that needs to be replaced.
5. Remove the fuse using the fuse puller located in the passenger compartment fuse box.




6. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
7. If a new fuse also opens, have the electrical system checked, and if necessary repaired, by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

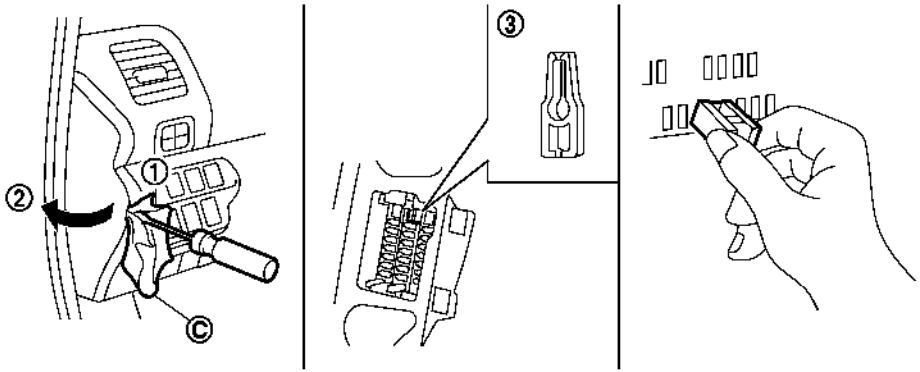
## Fusible links




If any electrical equipment does not operate and the fuses are in good condition, check the fusible links in the holder Ⓑ. If any of these fusible links are melted, replace with new parts.

For checking and replacing the fusible links in the holders Ⓐ and Ⓒ, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## PASSENGER COMPARTMENT



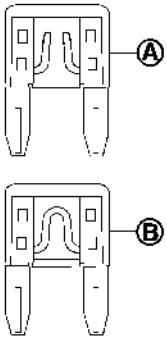

**⚠ CAUTION**

**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. Make sure that the power switch and the headlight switch are turned off.
2. Insert a screwdriver wrapped with the cloth(Ⓒ) into the slit ①.

   Use a cloth to protect the fuse box cover Ⓒ.
3. Then pull to remove the fuse box cover ②.
4. Remove the fuse with the fuse puller ③.



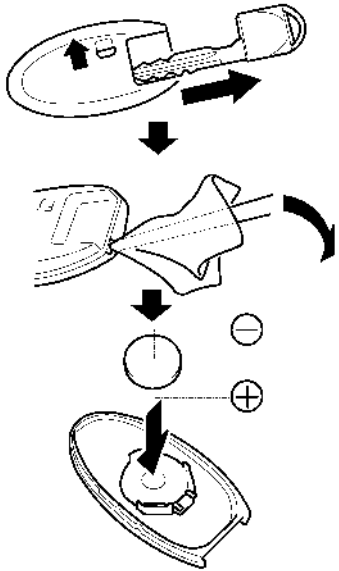

5. If the fuse is open Ⓐ, replace it with a new fuse Ⓑ.
6. If a new fuse also opens, have the electrical system checked, and if necessary repaired, by a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## INTELLIGENT KEY BATTERY REPLACEMENT

**⚠ CAUTION**

- **Be careful not to allow children to swallow the battery and removed parts.**

  **An improperly disposed battery can harm the environment. Always conform to local regulations for battery disposal.**
- **When changing batteries, do not let dust or oil get on the components.**
- **There is danger of explosion if the lithium battery is incorrectly replaced. Replace only with the same or equivalent type.**



Replace the battery in the Intelligent Key as follows:

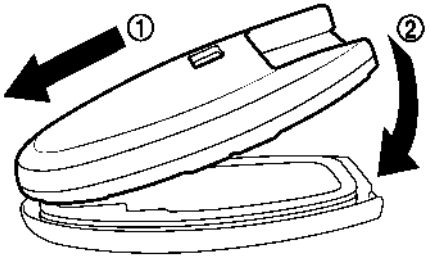
1. Remove the mechanical key from the Intelligent Key.

2. Insert a small flat blade screwdriver into the slit of the corner and twist it to separate the upper part from the lower part. Use a cloth to protect the casing.
3. Replace the battery with a new one.

   **Recommended battery**:

   CR2025 or equivalent

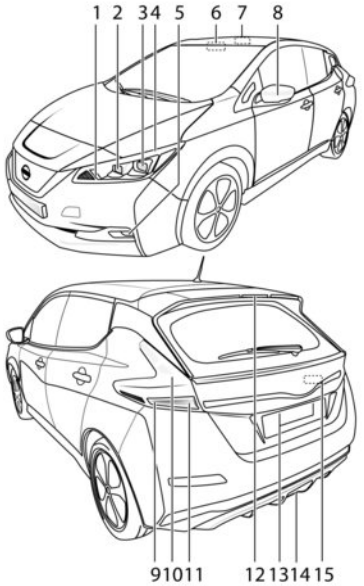
   - Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.
   - Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
   - Make sure that the **+** side faces the bottom of the case.




4. Align the tips of the upper and lower parts ①, and then push them together ② until it is securely closed.
5. Operate the buttons to check that it is functioning properly.

Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer, if you need assistance for battery replacement.

## LIGHTS




1. Front turn signal light
2. High beam
3. Low beam
4. Front side light
5. Front fog light
6. Front interior light

7. Rear interior light
8. Side turn signal light
9. Stop/tail light
10. Rear turn signal
11. Reverse light
12. High-mounted stop light
13. Number plate light
14. Rear fog light
15. Boot light

**NOTE:**
**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 knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## HEADLIGHTS

### Replacing

**LED headlight (where fitted):**

The LED headlight is a projector style which uses a LED module without serviceable parts.

**⚠ CAUTION**

- **To prevent an electric shock, never attempt to modify or disassemble the LED headlights assembly.**
- **If replacement is required, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

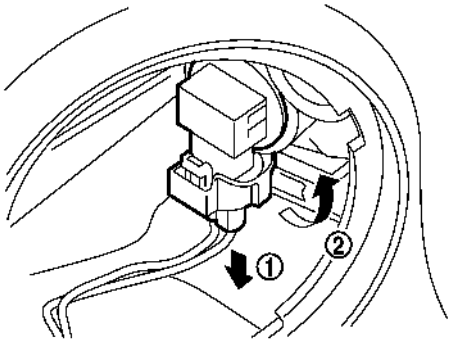
**Halogen headlight (where fitted):**

The headlight high-beam is a semi-sealed beam type that uses a replaceable headlight (halogen) bulb.

**⚠ CAUTION**

- **Do not leave the bulb out of the headlight reflector for a long period of time. Dust, moisture, smoke, etc. entering the headlight body may affect bulb performance.**
- **High-pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.**
- **Only touch the base when handling the bulb. Never touch the glass envelope. Touching the glass envelope could significantly affect bulb life and/or headlight performance.**
- **Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**
- **Use the same number and wattage as originally installed as shown in the chart.**

**Headlight:**




1. Disconnect the battery negative cable.
2. Remove the connector ①.
3. Turn the headlight bulb, and then remove the bulb ②.

## EXTERIOR AND INTERIOR LIGHTS

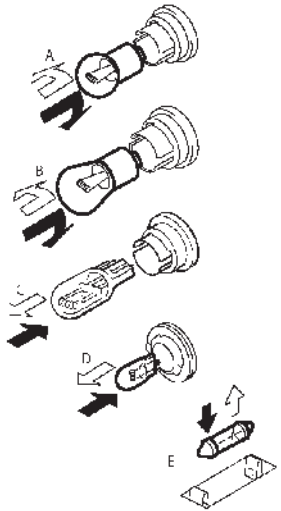
| Item | Wattage (W) | Bulb No. |
|---|---|---|
| Headlight low beam (LED) *1,*2 | LED | — |
| Headlight low beam (Halogen) *1 | 55 | H11 |
| Headlight high beam (Halogen) *1 | 60 | HB3 |
| Front turn signal light | 21 | WY21W |
| Front fog light (Halogen) *1,*2 | 35 | H8 |
| Front fog light (LED) *1,*2 | LED | — |
| Rear fog light | 21 | W21W |
| Front side light | LED | — |
| Side turn signal light | LED | — |
| Rear combination light | | |
| turn signal light | 21 | WY21W |
| stop/tail light *2 | LED | — |
| reverse light | 16 | W16W |
| Number plate light | 5 | W5W |
| Front interior/map lights *2 | 3 | — |
| High-mounted stop light *2 | LED | — |
| Rear interior light | 8 | — |
| Boot light | 5 | — |

*1: Where fitted

*2: If replacement is required, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

NOTE: Always check with the Parts Department at a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer for the latest information about parts or if you need assistance for bulb replacement.

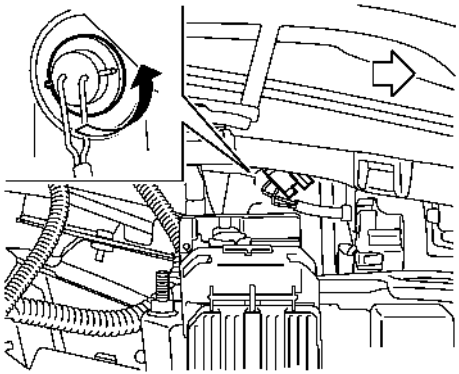
### Replacement procedures




All other lights are either type A, B, C, D or E. When replacing a bulb, first remove the lens and/or cover.

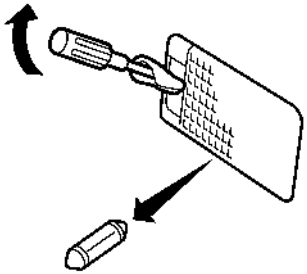
⇨ REMOVE

➡ INSTALL

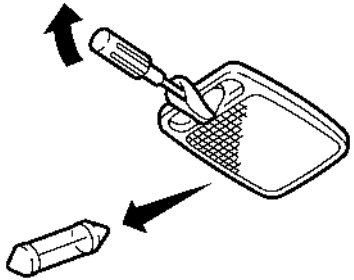


**Front turn signal light**

If assistance is required, contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.



**Boot light**



**Rear interior light**

## WHEELS AND TYRES

**In case of a flat tyre, see ☞ "Flat tyre" in the "6. In case of emergency" section.**

### TYRE PRESSURE

#### Tyre inflation pressure

Periodically check the pressure of the tyres. An incorrect tyre pressure may adversely affect tyre life and vehicle handling. The tyre pressure should be checked when tyres are COLD. Tyres are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1.6 km (1 mile). COLD tyre pressures are shown on the tyre and loading information label.

Insufficient pressure can lead to an overheating of the tyre and subsequent internal damage. At high speeds, this could result in tread separation and even bursting of the tyre.

### TYPES OF TYRES

**⚠ WARNING**

- **When changing or replacing tyres, be sure all four tyres are of the same type (Example: Summer, All Season or Snow) and construction. A knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer is able to help you with information about tyre type, size, speed rating and availability.**

- **Replacement tyres may have a lower speed rating than the factory equipped tyres, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tyre.**

### All season tyres

NISSAN specifies all season tyres on some models to provide good performance all year, including snowy and icy road conditions. All Season tyres are identified by ALL SEASON and/or M&S (Mud and Snow) on the tyre sidewall. Snow tyres have better snow traction than All Season tyres and may be more appropriate in some areas.

### Summer tyres

NISSAN specifies summer tyres on some models to provide superior performance on dry roads. Summer tyre performance is substantially reduced in snow and ice. Summer tyres do not have the tyre traction rating M&S on the tyre sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of SNOW tyres or ALL SEASON tyres on all four wheels.

### Snow tyres

If snow tyres are needed, it is necessary to select tyres equivalent in size and load rating to the original equipment tyres. If you do not, it can adversely affect the safety and handling of your vehicle.

If you install snow tyres, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tyres may be used. However, some states and provinces prohibit their use. Check local, state and provincial laws before installing studded tyres. Skid and traction capabilities of studded snow tyres, on wet or dry surfaces, may be poorer than that of non-studded snow tyres.

## SNOW CHAINS

Use of snow chains may be prohibited according to location. Check the local laws before installing snow chains. When installing snow chains, make sure they are the proper size for the tyres on your vehicle and are installed according to the chain manufacturer's suggestions.

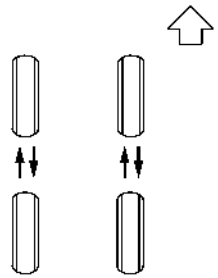
Use chain tensioners when recommended by the snow chain manufacturer to ensure a tight fit. Loose end links of the snow chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using snow chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

**Snow chains must be installed only on the front wheels and not on the rear wheels.**

**Never install snow chains on the T-type spare tyre (Temporary use only).**

Do not use snow chains on dry roads. Driving with snow chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

## TYRE ROTATION



NISSAN recommends rotating the tyres every 10,000 km (6,000 miles). See "Flat tyre" in the "6. In case of emergency" section for tyre replacement procedures.

**⚠ WARNING**

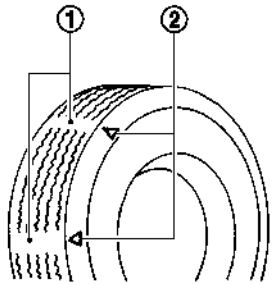
- **After rotating the tyres, adjust the tyre pressure.**
- **Do not include the T-type spare tyre in the tyre rotation.**
- **Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles)**

**(after the wheel has been refitted to the vehicle for any reason (tyre rotation, flat tyre, etc.)).**

### For models equipped with Tyre Pressure Monitoring System

After the tyres have been rotated, the TPMS must be reset. For details about the resetting procedure, see ☞ "Precautions when starting and driving" in the "5. Starting and driving" section.

## TYRE WEAR AND DAMAGE




1. Wear indicator
2. Wear indicator location mark

### ⚠ WARNING

- **Tyres 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 tyre(s) should be replaced.**
- **The original tyres have built-in tread wear indicators. When wear indicators are visible, the tyre(s) should be replaced.**

## TYRE AGE

Never use a tyre over six years old, regardless of whether it has been used or not.

Tyres degrade with age as well as with the vehicle usage. Have the tyres checked regularly and balanced by a repair shop or, if you prefer, a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## REPLACING WHEELS AND TYRES

When replacing a tyre, use the same size, tread design, speed rating and load carrying capacity as originally equipped. See ☞ "Specifications" in the "9. Technical information" section for recommended types and sizes of tyres and wheels.

The use of tyres other than those that match the quality of those recommended by NISSAN or the mixed use of tyres of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tyre clearance, snow chain clearance, Tyre 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.

### ⚠ WARNING

- **If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels with different off-set could cause premature tyre wear, degrade vehicle handling characteristics and/or could cause interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. See ☞ "Specifications" in the "9. Technical information" section of this manual for wheel off-set dimensions.**
- **When exchanging wheels and tyres for wheels and tyres of a different size, the vehicle systems need to be calibrated, see a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.**

## WHEEL BALANCE

Unbalanced wheels may affect vehicle handling and tyre life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

## SPARE TYRE (where fitted)

### Temporary-use spare wheel/tyre




**Temporary-use spare tyre label**

The temporary-use spare tyre is designed for emergency use only. This spare tyre should be used ONLY for very short periods and NEVER be used for long drives or extended periods.

Observe the following precautions if the temporary-use spare tyre must be used, otherwise your vehicle could be damaged or involved in an accident.

**⚠ CAUTION**

- **The T-type spare tyre should be used only in emergencies. It should be replaced by the standard tyre at the first opportunity.**
- **Drive carefully while the T-type spare tyre is installed.**
- **Avoid driving sharp turns and abrupt braking.**
- **Periodically check the T-type spare tyre inflation pressure, and always keep it at 420 kPa (4.2 bar, 60 psi).**
- **Do not drive your vehicle faster than 80 km/h (50 MPH).**
- **Do not use a snow chain on a T-type spare tyre because it will not fit properly. This could cause damage to the vehicle.**
- **Tyre tread of the T-type spare tyre will wear at a faster rate than the original tyre. Replace the T-type spare tyre as soon as the tread wear indicators appear.**
- **The T-type spare tyre is smaller than the original tyre, 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 tyre on other vehicles.**
- **The vehicle must not be driven with more than one T-type spare tyre at the same time.**

## EMERGENCY TYRE PUNCTURE REPAIR KIT (where fitted)

The emergency tyre repair kit is supplied with the vehicle instead of a spare tyre. The kit must be used for temporarily fixing a minor tyre puncture. After using the repair kit, see a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer as soon as possible for tyre inspection and repair/replacement.

**⚠ CAUTION**

**Do not use the emergency tyre repair kit under the following conditions. Call a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer or professional road assistance.**

- when the sealant has passed its expiration date
- when the cut or the puncture is approximately 4 mm (0.16 in) or longer
- when the side of the tyre is damaged
- when the vehicle has been driven with a considerable loss of air from the tyre
- when the tyre is completely displaced inside or outside the rim
- when the tyre rim is damaged
- when two or more tyres are punctured

## CARE OF WHEELS

For details, see "Cleaning exterior" in the "7. Appearance and care" section.

# 9 Technical information


Recommended fluids/lubricants and capacities ..... 9-2
Air conditioning system refrigerant and lubricant recommendations ..... 9-3
Specifications ..... 9-4
Charging system ..... 9-4
Motor ..... 9-5
Technical characteristics (for Gulf Standard models) ..... 9-5
Wheels and tyres ..... 9-5
Dimensions ..... 9-5
When travelling or transferring your registration to another country ..... 9-5
Vehicle identification ..... 9-6
Vehicle identification plate ..... 9-6
Built date (where fitted) ..... 9-6
Vehicle Identification Number (VIN) plate ..... 9-6
Vehicle identification number (chassis number) ..... 9-6
Traction motor serial number ..... 9-7
Tyre placard ..... 9-7
Air conditioner and brake fluid specification labels ..... 9-7
Trailer towing ..... 9-8
Flat towing ..... 9-8
Installation of an RF transmitter ..... 9-8
Radio approval number and information ..... 9-9
NISSAN Anti-Theft System (NATS) and Intelligent Key system ..... 9-9
Tyre Pressure Monitoring System (TPMS) Tuner (Receiver) ..... 9-10
Tyre Pressure Monitoring System (TPMS) (Transmitter) ..... 9-11
Front radar system ..... 9-12
Radio frequency approval ..... 9-14
Model TWB1G767, Passive Entry System (Hand Unit): ..... 9-15
Model TWC1G154, Passive Entry System (Tuner): ..... 9-15
Model TWK1A004, ANT ASSY-IMMOBILISER: ..... 9-15
Tyre Pressure Monitoring System (TPMS) tuner ..... 9-15
Tyre Pressure Monitoring System (TPMS) tuner ..... 9-15
Intelligent Key system ..... 9-16
Audio Head Unit ..... 9-16

## RECOMMENDED FLUIDS/LUBRICANTS AND CAPACITIES

The following are approximate capacities. The actual refill capacities may be slightly different. When refilling, follow the procedure that is described in the "8. Maintenance and do-it-yourself" section to determine the proper refill capacity.

| Fluid type | Motor type | Capacity (approximate) | | | Recommended Fluids/Lubricants |
|---|---|---|---|---|---|
| | | Metric Measure | US Measure | Imperial Measure | |
| Cooling system coolant | | | | | Genuine NISSAN Coolant or equivalent in its quality<br>Use Genuine NISSAN Coolant, or equivalent in its quality, in order to avoid possible aluminium corrosion within the cooling system caused by the use of non-genuine coolant.<br>Note that any repairs for the incidents within the cooling system while using non-genuine coolant may not be covered by the warranty even if such incidents occurred during the warranty period. |
| With reservoir | 3 Kw | 4.63 L | 4-7/8 qt | 4-1/8 qt | |
| | 6 Kw | 4.67 L | 4-7/8 qt | 4-1/8 qt | |
| Reservoir | | 0.51 L | 1/2 qt | 7/8 qt | |
| Reduction gear fluid | | 1.38 L | 1-1/2 qt | 1-1/2 qt | Genuine NISSAN Matic S ATF<br>Using reduction gear fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and reduction gear durability, and may damage the reduction gear, which is not covered by the warranty. |
| Brake fluid | | Refill to the proper level according to the instructions in the "8. Maintenance and do-it-yourself" section. | | | Genuine NISSAN Brake Fluid or equivalent DOT 3 or DOT 4<br>Never mix different types of fluids (DOT3 and DOT4). |
| Multi-purpose grease | | — | — | — | NLGI No. 2 (Lithium soap base) |
| Air conditioning system refrigerant | With heat pump | 850 gr ± 25 gr | — | — | HFO-1234yf (R-1234yf) see ☞ "Air conditioner and brake fluid specification labels" later in this section. |
| | Without heat pump | 425 gr ± 25 gr | — | — | |
| Air conditioning system lubricants | | — | — | — | Compressor Oil ND-OIL11 or equivalent (Type A), AE10 or equivalent (Type B) see ☞ "Air conditioner and brake fluid specification labels" later in this section. |
| Window washer fluid | | 2.5 L | 2-3/4 qt | 2-1/4 qt | Genuine NISSAN Windscreen Washer Concentrate Cleaner & Antifreeze or equivalent |

## AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

**The air conditioning system in your NISSAN vehicle must be charged with the refrigerant, HFC-134a (R-134a), and compressor oil ND-OIL11 or equivalent, see "Air conditioner and brake fluid specification labels" later in this section.**

**⚠ CAUTION**

**The use of any other refrigerant or oil will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.**

The refrigerant in your NISSAN vehicle will not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. A knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

Contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer when servicing your air conditioning system.

# SPECIFICATIONS

## CHARGING SYSTEM

| | | | |
|---|---|---|---|
| Rated input voltage | AC110V - AC240V (single phase) | | |
| Rated input frequency | 50Hz/60Hz | | |
| Maximum rated current | 18A (or 30A (where fitted)) | | |
| Charging modes/Type of connection | Mode 3/Case B/C (Normal charge with public charging station, etc)<br>Mode 4/Case C (Quick charge, V2X charge/discharge) | | |
| Required installation (over current protection) | The methods of protection against over current and over voltage shall be in accordance with national codes. Suitable over current protection devices for the wiring of houses or buildings shall be installed. | | |
| IP Degree | IP44: Connection of charge port during charging | | |
| Operating temperature | Same as vehicle operating temperature | | |
| Storage temperature | Same as vehicle storage temperature | | |
| Altitude | Up to 3000m | | |
| Applicable standard | EN61851-1:2010<br>EN61851-21:2002<br>IEC61851-1:2010<br>IEC61851-21:2001 | EN61000-6-1:2007<br>EN61000-6-2:2005<br>EN61000-6-3:2007<br>EN61000-6-4:2007 | IEC62196–1:2011<br>IEC62196–2:2011<br>IEC62196–3:2011 |
| Adaptors | Do not use an extension cable or electrical adapter. | | |

## MOTOR

| | |
|---|---|
| Model | EM57 |

## TECHNICAL CHARACTERISTICS (FOR GULF STANDARD MODELS)

| Model | EM57 |
|---|---|
| Maximum rated power (kW/rpm) | 110/3,283 — 9,795 |
| Maximum rated torque (N·m/rpm) | 320/3,283 |
| Maximum speed *1 (km/h (MPH)) | 144 (90) |

*1: Gulf Standard regulation requires automobile manufacturers to indicate the maximum vehicle speed for applicable models. The maximum vehicle speed, listed above, is the measured speed under certain testing conditions. The actual value may differ according to the vehicle usage and road and environmental conditions. NISSAN recommends you to ALWAYS observe posted speed limits and never drive too fast for conditions.

## WHEELS AND TYRES

### Road wheel

| Type | Size | Offset mm (in) |
|---|---|---|
| Aluminium | 16 × 6 1/2J | 40 (1.57) |
| | 17 × 6 1/2J | 45 (1.77) |
| Steel* | 16 x 4T | 40 (1.57) |
| | 16 x 6 1/2J | 40 (1.57) |

*: Where fitted

### Tyre

| Type | Size |
|---|---|
| Conventional | 205/55R16 91V |
| | 215/50R17 91V* |
| Temporary use spare tyre* | T125/90D16 98M |

*: Where fitted

## DIMENSIONS

Unit: mm (in)

| | |
|---|---|
| Overall length | 4,479 (176.4) |
| Overall width | 1,790 (70.5) |
| Overall height *1 | 1,545 (60.9) |
| Overall height *2 | 1,555 (61.4) |
| Front tread *1 | 1,540 (60.6) |
| Front tread *2 | 1,530 (60.2) |
| Rear tread *1 | 1,555 (61.2) |
| Rear tread *2 | 1,545 (60.8) |
| Wheelbase | 2,700 (106.3) |

*1 Models fitted with 16 inch wheels

*2 Models fitted with 17 inch wheels

## WHEN TRAVELLING OR TRANSFERRING YOUR REGISTRATION TO ANOTHER COUNTRY

**When planning to travel in another country,** you should first find out if the charging equipment is compatible with that country's electrical system.

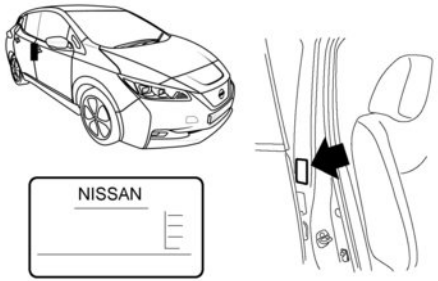
**When transferring your vehicle registration to another country,** it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

**NISSAN is not responsible for any inconvenience when the vehicle is taken to and registered in another country. The necessary modifications, transportation and registration are the owner's responsibility.**

# VEHICLE IDENTIFICATION

## VEHICLE IDENTIFICATION PLATE

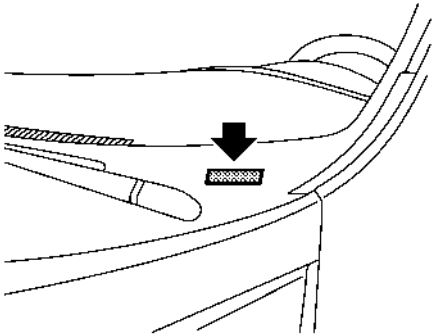



The plate is affixed as shown.

### BUILT DATE (where fitted)

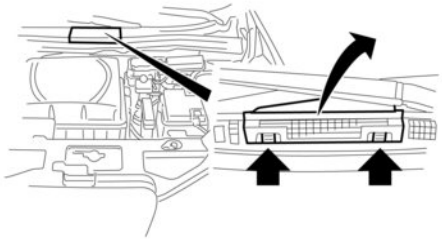
Built date is stamped on the vehicle identification plate. The built date means the calendar month and the year in which the body shell and power train subassemblies are conjoined and the vehicle is driven or moved from the production line.

## VEHICLE IDENTIFICATION NUMBER (VIN) PLATE



The vehicle identification number plate is attached as shown. This number is the identification of the vehicle and is used in the vehicle registration.

## VEHICLE IDENTIFICATION NUMBER (CHASSIS NUMBER)



The vehicle identification number is located as shown.

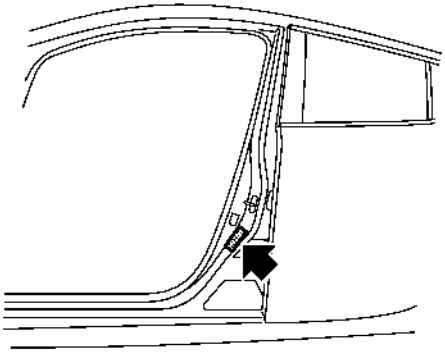
Remove the cover to access the number.

## TRACTION MOTOR SERIAL NUMBER



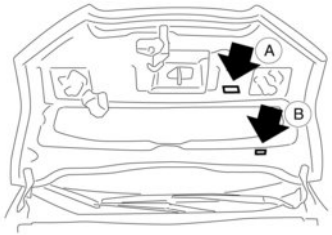
The serial number is stamped on the traction motor as shown.

## TYRE PLACARD



The cold tyre pressure is shown on the tyre placard affixed to the driver's side centre pillar as shown.

## AIR CONDITIONER AND BRAKE FLUID SPECIFICATION LABELS




The air conditioner specification label Ⓐ and brake fluid specification label Ⓑ are attached to the underside of the bonnet as shown in the illustration.

## TRAILER TOWING

Your vehicle was designed to be used to carry passengers and luggage.

**⚠ CAUTION**

**Do not tow a trailer with your vehicle.**

## FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is typically used when towing a vehicle behind a recreational vehicle, such as a motor home.

**⚠ CAUTION**

- **Failure to follow these guidelines can result in severe reduction gear damage.**
- **DO NOT tow this vehicle with all four wheels on the ground (flat towing).**
- **For emergency towing procedures refer to ☞ "Towing your vehicle" in the "6. In case of emergency" section of this manual.**

## 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 certified electric vehicle dealer or qualified workshop for precautionary measures or special instructions regarding installation. Upon request, your NISSAN certified electric vehicle dealer or qualified workshop will provide the detailed information (frequency band, power, antenna position, installation guide, etc.) regarding installation.

# RADIO APPROVAL NUMBER AND INFORMATION

## NISSAN ANTI-THEFT SYSTEM (NATS) AND INTELLIGENT KEY SYSTEM

Hereby, ALPS ELECTRIC CO.,LTD. declares that these Passive Entry System (Hand Unit); model TWB1G662, Passive Entry System (Tuner); model TWC1G154, ANT ASSY-IMMOBILISER; model TWK1A002 are in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.

**ALPS ELECTRIC CO., LTD.**
**TWB1G662 TWC1G154 TWK1A002 שם המדל**
תוצרת יפן

Carasso Motors Ltd
Logistic Center - Park Re'em
P.O. Box 90 - 60860 Benei-Aish Israel

א. השימוש במכשיר הינו על בסיס "משני" ופטור מרשיון הפעלה אלחוטי.
בלמחר - לא מוגן מהפרעות וללא הגדעה למערכות אחרות הפועלות בדין.
ב. רק בפעולת סיק" לשימוש עצמי של הלקוח בלבד. הציוד פטור מרשיון הפעלה אחלוטי.
מתן "שרת בוק" לצד ג מחייב רשיון מיוחד ממשרד התקשורת.
ג. אסור להחליף את האנטנה המקורית של המכשיר, ולא לעשות בו כל שינוי טכני אחר.

**For Israel**

**⚠ CAUTION**

- **Do not expose to excessive heat such as sunshine, fire or the like.**
- **Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type.**

Brasil

sintonizador




mobilizador




Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário.

Taiwan 台灣

第十二條
經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條
低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。
前項合法通信，指依電信法規定作業之無線電通信。
低功率射頻電機須忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

Argentina

| | |
|---|---|
| el transmisor sin llave: | NISSAN<br>CNC 09-11153 |
| el sistema de inmovilizador: | NISSAN<br>CNC 06-11054 |

Colombia:

CE

ALPS ELECTRIC CO., LTD. declara que el sistema de entrada de manos libres (mando a distancia), modelo TWB1G662, el sistema de entrada de manos libres (transpondedor), modelo TWC1G154, y el sistema de inmovilizador, modelo TWK1A002, cumplen los requisitos básicos y provisiones pertinentes de la Directiva 1999/5/EC.

## TYRE PRESSURE MONITORING SYSTEM (TPMS) TUNER (Receiver)



ALPS ELECTRIC CO., LTD. Engineering Headquarters
6-3-36, Nakazato, Furukawa, Osaki-city, Miyagi-pref., 989-6181, Japan
Phone +81 229-23-5111 Fax +81 229-23-6290

**EU DECLARATION of CONFORMITY (DoC)**

(No. N3289)

This declaration of conformity is issued under the sole responsibility of the manufacturer:

Name: ALPS ELECTRIC CO.,LTD.
Address: 6-3-36, Nakazato, Furukawa, Osaki-city, Miyagi-pref., JAPAN 989-6181

We declare that the DoC is issued under our sole responsibility and belongs to the following product.

Object of the declaration:

Product Name TPMS TUNER CONT

Model Name TWD1G791

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

Radio Equipment (RE) Directive (2014/53/EU)

The following harmonized standards and technical specifications have been applied:

Health & Safety (Article 3.1(a)): EN 60065: 2014

EMC (Article 3.1(b)): EN 301 489-1 V2.1.1, EN 301 489-3 V2.1.1(Final draft)

Radio Spectrum (Article 3.2): EN 300 220-1 V3.1.1, EN 300 220-2 V3.1.1

Signed for and on behalf of:

Miyagi, Japan — Place of Issue
June 8, 2017 — Date of Issue
Yasuhiro Yabe
Group Leader
GROUP2 ENGINEERING DEPT.M5

Hereby, ALPS ELECTRIC CO., LTD., declares that the radio equipment type TWD1G791 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.alps.com/products/common/pdf/Tuner/TWD1G791.pdf.

Manufacturer/Importer name, Address: Nissan International SA Zone d'activites La Piece 12 1180 Rolle, Switzerland.

Operating frequency band: 433.92 MHz

**א. השימוש במכשיר היינו על בסיס "משני" ופטור מרשיון הפעלה אלחוטי.**
**ב. רק "בפעולת בזק" לשימוש עצמי של הלקוח בלבד, הציוד פטור מרשיון הפעלה אלחוטי.**
**ג. אסור להחליף את האנטנה המקורית של המכשיר, ולא לעשות בו כל שינוי טכני אחר.**

**For Israel**

## TYRE PRESSURE MONITORING SYSTEM (TPMS) (Transmitter)

Hereby, Continental declares that the radio equipment type TIS-03 is in compliance with Directive 2014/53/EU.



Continental

Interior

Thomas Hesselberger
I B&S RD CFRF WM Homologation
Phone: +49-941-790-3554
Fax: +49-941-79099-3554
Thomas.Hesselberger@continental-corporation.com

Date
01.06.2017

EU Declaration of Conformity in accordance with Directive 2014/53/EU

Manufacturer:
Address:
Continental Automotive GmbH
Siemensstrasse 12
D-93055 Regensburg
Germany

Product type designation: TIS-03

Intended use: Tire pressure monitoring sensor

The product mentioned above complies with the essential requirements and other relevant provisions of Directive 2014/53/EU, when used for its intended purpose:

Health and safety pursuant to Art. 3(1)(a): Applied standard(s): EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011+A2:2013

Electromagnetic compatibility pursuant to Art. 3(1)(b): Applied standard(s): DRAFT EN 301 489-3 V2.1.1

Efficient use of spectrum pursuant to Art. 3(2): Applied standard(s): EN 300 220-2 V3.1.1

The following marking applies to the above mentioned product: CE

Continental Automotive GmbH
Regensburg, 01.06.2017

Andreas Wolf
Executive Vice President
Body & Security

Norbert Müller
Director Research & Development
Body & Security

1/1

ANATEL
Agência Nacional de Telecomunicações

**04835-15-02149**

"Este equipamento opera em caráter secundário, isto é, não tem direito a proteção contra interferência prejudicial, mesmo de estações do mesmo tipo, e não pode causar interferência a sistemas operando em caráter primário."

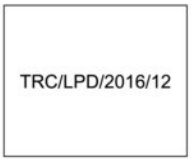
**For Brazil**

**TRA**
**REGISTERED No:**
**ER42271/15**

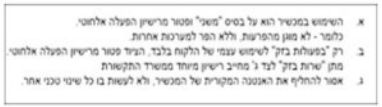
**DEALER No:**
**DA36975/14**

**For Dubai**

## FRONT RADAR SYSTEM




**For Jordan**




**For Israel**




**For Taiwan**

AGREE PAR L'ANRT MAROC
Numéro d'agrément: MR 11249 ANRT 2016
Date d'agrément :06/01/2016

**For Morocco**

TRC No. TRC/LPD/2014/248

**For Jordan**



**For Australia**




**For Dubai**

## RADIO FREQUENCY APPROVAL

All radio frequency products fitted to the vehicle range during production conform to the requirements of the Radio Equipment Directive (RED) 2014/53/EU.

The countries covered by this directive, or those which accept it, are: Albania, Austria, Belgium, Bosnia & Herzegovina, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, French Guyana, Georgia, Germany, Greece, Guadeloupe, Hungary, Iceland, Ireland, Italy, Kosovo, Latvia, Liechtenstein, Lithuania, Luxembourg, Macedonia, Malta, Martinique, Mayotte, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Reunion, Romania, Saint Pierre & Miquelon, San Marino, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey, Tuvalu, United Kingdom.

| VEHICLE RADIO FUNCTIONS | | |
|---|---|---|
| **Frequency Range** | **Technology** | **Power/Magnetic Field** |
| 125 kHz (119 – 135 kHz) | Remote Keyless Entry Transponder Ring | ≤ 42 dBµA/m at 10m |
| 433 MHz (433.05 – 434.79 MHz) | Tyre Pressure Monitoring | ≤ 10 mW e.r.p. |
| 433.92 MHz (433.05 – 434.79 MHz) | Remote Keyless Entry | ≤ 10 mW e.r.p. |
| 20 kHz (9 – 90 kHz) | Keyless Go system | ≤ 72 dBµA/m at 10m |
| 2.4 GHz (2400 – 2483.5 MHz) | Bluetooth®, Wi-Fi | ≤ 100 mW e.i.r.p. |
| 824 – 894 MHz | GSM 850 (2G) | ≤ 39 dBm e.i.r.p. |
| 880 – 960 MHz | GSM 900 (2G) | ≤ 39 dBm e.i.r.p. |
| 1710 – 1880 MHz | GSM 1800 (2G) | ≤ 36 dBm e.i.r.p. |
| 1850 – 1890 MHz | GSM 1900 (2G) | ≤ 33 dBm e.i.r.p. |
| 1922 – 2168 MHz | W-CDMA Band I (3G) | ≤ 24 dBm e.i.r.p. |
| 24.05 – 24.25 GHz | 24 GHz ISM Radar | ≤ 100 mW e.i.r.p. |
| 24.25 – 26.65 GHz | 24 GHz UWB Radar | ≤ -41,3 dBm/MHz e.i.r.p. mean<br>≤ 0 dBm/50 MHz e.i.r.p. peak |
| 76 – 77 GHz | 77 GHz Radar | ≤ 55 dBm e.i.r.p. |

## MODEL TWB1G767, PASSIVE ENTRY SYSTEM (HAND UNIT):

Hereby, ALPS ELECTRIC CO.,LTD., declares that the radio equipment type TWB1G767 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.alps.com/products/common/pdf/HandUnit/TWB1G767.pdf

- Manufacturer name:
  ALPS ELECTRIC CO.,LTD.
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland
- Operating frequency band: 433.92 MHz.
- Maximum radio-frequency power: ≤ 10 dBm

## MODEL TWC1G154, PASSIVE ENTRY SYSTEM (TUNER):

Hereby, ALPS ELECTRIC CO.,LTD., declares that the radio equipment type TWC1G154 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.alps.com/products/common/pdf/Tuner/TWC1G154.pdf

- Manufacturer name:
  ALPS ELECTRIC CO.,LTD.
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland

## MODEL TWK1A004, ANT ASSY-IMMOBILISER:

Hereby, ALPS ELECTRIC CO.,LTD., declares that the radio equipment type TWK1A004 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.alps.com/products/common/pdf/Immobilizer/TWK1A004.pdf

- Manufacturer name:
  ALPS ELECTRIC CO.,LTD.
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland
- Operating frequency band: 125 kHz.
- Maximum radio-frequency power: 56.3 dBuV/m@10m

## TYRE PRESSURE MONITORING SYSTEM (TPMS) TUNER

- Registered trademark:
  ALPS ELECTRIC CO.,LTD.
- Manufacturer name, address:
  ALPS ELECTRIC CO.,LTD.
  6-3-36, Nakazato, Furukawa, Osaki-city, Miyagi-pref., 989-6181, Japan
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland
- Operating frequency band: 433.92 MHz

Hereby, ALPS ELECTRIC CO., LTD., declares that the radio equipment type TWD1G791 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://www.alps.com/products/common/pdf/Tuner/TWD1G791.pdf

## TYRE PRESSURE MONITORING SYSTEM (TPMS) TUNER

Hereby, Continental declares that the radio equipment type TIS-03 is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://continental.automotive-approvals.com/

- Manufacturer name:
  Continental Automotive GmbH.
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland
- Operating frequency band: 433.92 MHz.
- Maximum radio-frequency power: ≤ 10 dBm

## INTELLIGENT KEY SYSTEM

Hereby, Continental declares that the radio equipment type [Intelligent Key system] is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address:

http://continental-homologation.com/nissan

- Manufacturer name, address:
  Continental Automotive GmbH
  Siemensstraße 12, D-93055
  Regensburg, Germany
- Importer name, address:
  Nissan International SA
  Zone d'activités La Pièce 12
  1180 Rolle, Switzerland
- Operating frequency band: 433.92 MHz
- Maximum radio-frequency power: <10 dBm

## AUDIO HEAD UNIT

## CE STATEMENT

Hereby Visteon corporation declares that this system is in compliance with Directive 2014/53/EU. The full text of the EU declaration of conformity is available at the following internet address: http://www.visteon.com/g17ahudirective.2014.53.eu.pdf

CE

NOTE

NOTE

NOTE

NOTE

NOTE

NOTE

# 10 Index

## A


Active trace control ..... 5-76
Aids
- Blind Spot Warning (BSW) ..... 5-28
- Chassis control ..... 5-76
- Intelligent Emergency Braking (IEB) ..... 5-52
- Intelligent Lane Intervention system ..... 5-23
- Lane Departure Warning (LDW) ..... 5-20
- Rear Cross Traffic Alert (RCTA) system ..... 5-32
- Ultrasonic parking sensors ..... 5-68

Air bags
- Repair and replacement ..... 1-33
- Supplemental restraint System ..... 1-25, 1-31
- Warning labels ..... 1-29
- Warning light ..... 1-30

Air conditioner
- Automatic ..... 4-20
- Filter ..... 4-23
- Heater and air conditioner ..... 4-19
- Refrigerant and lubricant ..... 9-3
- Tips ..... 4-23
- Vents ..... 4-19

Antenna ..... 4-32
Anti-Lock Braking System (ABS) ..... 5-74
- Self test ..... 5-74

Anti-Theft System (NISSAN)
- Warning light ..... 2-42

Approaching Vehicle Sound for Pedestrians (VSP) system ..... 2-60, EV-16
Approval numbers ..... 9-9
Audible reminders
- Overview ..... 2-19

Audible reminders, warning/indicator lights ..... 2-10
Audio ..... 4-26
- Anti-theft system ..... 4-35
- AUX socket ..... 4-41
- EV (Electric Vehicle) navigation system ..... 4-48
- FM-AM radio with CD player ..... 4-34
- iPod® player operation ..... 4-42
- NissanConnect ..... 4-48
- Operation precautions ..... 4-26
- Steering-wheel switches ..... 4-32
- USB Connection Port ..... 4-27

Automatic door locks ..... 3-5


## B


Battery ..... 8-9
- Charging - 12-volt battery ..... EV-5
- Driving - Discharged battery ..... EV-3
- Information ..... 8-9
- Li-ion battery ..... EV-2
- Lithium ion (Li-ion) battery ..... EV-12

Battery saver system
- Headlights ..... 2-48
- Intelligent Key ..... 3-10
- Interior lights ..... 2-59

Blind Spot Warning (BSW) ..... 5-28
- Driving situations ..... 5-29
- Operation ..... 5-28

Bluetooth® ..... 4-28
- Hands-Free Phone System ..... 4-48
- Operation — FM AM radio with CD ..... 4-43
- Settings — FM AM radio with CD ..... 4-43
- Streaming — FM AM radio with CD ..... 4-45

Bonnet
- Opening / Closing ..... 3-14

Bottle holders ..... 2-54
Brakes
- Anti-lock Braking System (ABS) ..... 5-74
- Fluid ..... 8-7
- Intelligent Emergency Braking (IEB) ..... 5-52
- Maintenance ..... 8-12
- Pad wear warning ..... 8-12
- Parking brake ..... 5-15
- Precautions ..... 5-72
- Regenerative braking ..... 5-72

Brightness
- Instrument panel ..... 2-46
- Intelligent Around-View Monitor ..... 4-16
- Vehicle Information Display ..... 2-46

## C


Capacities and recommendations ..... 9-2
- Refrigerant ..... 9-3

Charge port
- Cap ..... 3-17
- Opening / closing lid ..... 3-16

Charging
- 12-volt battery ..... EV-5
- Charge cable ..... EV-9
- Charge connector ..... EV-9
- Charge port ..... EV-9
- Charge port cap ..... 3-17
- Charge port lid ..... 3-16
- Charge port lid — opening ..... 3-16
- Charging timer ..... CH-18
- EVSE (Electric Vehicle Supply Equipment) cable ..... EV-9
- Immediate charge ..... CH-19
- Indicator lights ..... CH-20
- Li-ion battery ..... CH-4, EV-12, EV-9
- Methods ..... CH-18
- Mode 3 cable ..... EV-9
- Normal Charge ..... CH-7
- Precautions ..... CH-3
- Quick Charge ..... CH-5
- Quick Charge — Stopping ..... CH-6
- Troubleshooting ..... CH-23
- V2X Charge/discharge ..... CH-15

Chassis control ..... 5-76

Checking
- Bulbs ..... 2-11
- Coolant level ..... 8-6

Child restraints ..... 1-13
- Installation using three-point type seat belt ..... 1-22
- ISOFIX installation ..... 1-19
- ISOFIX system ..... 1-18
- Positions ..... 1-16, 1-17
- Precautions ..... 1-13
- Seat belt installation ..... 1-22
- Universal child restraints for rear seats ..... 1-15

Child safety
- Rear door locks ..... 3-6
- Seat belts ..... 1-12

Cleaning ..... 7-2
- Exterior ..... 7-2
- Floor mats ..... 7-4
- Glass ..... 7-3
- Interior ..... 7-4
- Seat belts ..... 7-5
- Underbody ..... 7-3
- Washing ..... 7-2

Climate control ..... 4-19
- Automatic ..... 4-20
- Filter ..... 4-23
- Heater and air conditioner ..... 4-19

Climate Control Timer
- Tips ..... 4-25

Clock ..... 2-9

Cockpit
- Overview ..... 0-6, 2-2

Cold weather ..... 5-77
- Battery ..... 5-77
- Winter equipment ..... 5-78

Coolant ..... 8-6
- Changing coolant ..... 8-6
- Checking level ..... 8-6

Corrosion protection ..... 7-5

Cruise control ..... 5-38
- Activation ..... 5-39
- Operation ..... 5-38, 5-40
- Precautions ..... 5-38

Cup holders ..... 2-53


## D


Defogger
- Outside mirror ..... 2-45
- Switch ..... 2-45

Dimensions ..... 9-5

Display
- Brightness ..... 2-46
- Messages ..... 2-29
- Trip computer ..... 2-32
- Vehicle Information Display ..... 2-20

Doors
- Automatic door locks ..... 3-5
- Locks ..... 3-3
- Tailgate ..... 3-15

Driving ..... 5-11
- Cold weather ..... 5-77
- Intelligent Emergency Braking (IEB) ..... 5-52
- Parking ..... 5-71
- Precautions ..... 5-2
- Shifting ..... EV-17, 5-12


## E


ECO mode ..... 5-14

Electric vehicle
- Approaching Vehicle Sound for Pedestrians (VSP) system ..... EV-16
- Characteristics ..... EV-7

- Efficient use ..... EV-13
- Emergency shut-off system ..... EV-7, 5-10
- Overview ..... EV-2
- Road accident precautions ..... EV-6
- Unique information ..... EV-14
- Warning and indicator lights ..... EV-16

Electronic Stability Programme (ESP) ..... 5-75
Emergency shut-off system ..... EV-7, 5-10
Exterior
- Overview ..... 0-3, 0-4


## F


Flat towing ..... 9-8
Flat tyre ..... 6-3
- Changing ..... 6-3, 6-4
- Emergency tyre puncture repair kit ..... 6-9
- Jacking ..... 6-4

Fluids
- Air conditioner ..... 9-3
- Brake ..... 8-7
- Coolant ..... 8-6
- Recommendations and capacities ..... 9-2
- Reduction gear fluid ..... 8-7
- Window washer ..... 8-8

Fog lights
- Front — Location ..... 0-3
- Front — Operation ..... 2-50
- Rear — Location ..... 0-4
- Rear — Operation ..... 2-50

Frequency approval numbers ..... 9-14
Fuses ..... 8-12
- Motor compartment ..... 8-12
- Passenger compartment ..... 8-14


## G


Gauges
- Meters and gauges ..... 2-6
- Odometer ..... 2-7
- Speedometer ..... 2-6

Guide lines ..... 4-12


## H


Hands-Free Phone System ..... 4-48
Hazard indicator flasher switch ..... 6-2
Head restraints ..... 1-5
- Adjustment ..... 1-5, 1-6
- Installation ..... 1-7
- Removal ..... 1-6

Headlights
- Aiming control ..... 2-49
- Headlight and turn signal switch ..... 2-46
- Operation ..... 2-46
- Switch ..... 2-46

Heated seats ..... 2-51
- Operation ..... 2-51
- Precautions ..... 2-51

Heated steering wheel ..... 2-52
Heater and air conditioner ..... 4-19
- Vents ..... 4-19

High voltage
- Precautions ..... CH-3, EV-5

Home Charging Unit ..... CH-9
Horn ..... 2-51


## I


Indicator lights ..... 2-10, 2-17
- Overview ..... 0-12

Injured persons ..... 1-9
Inside rear-view mirror ..... 3-18
Instrument panel
- Overview ..... 0-8, 2-4

Intelligent Around View Monitor ..... 4-8
- Overview ..... 4-8

Intelligent Around-View Monitor
- Guide lines ..... 4-12
- Guide lines — Precautions ..... 4-14
- Operation ..... 4-11
- Settings ..... 4-17

Intelligent Cruise Control (ICC) ..... 5-40
Intelligent Emergency Braking (IEB) ..... 5-52
- Activation ..... 5-55
- Operation ..... 5-53
- Warning light ..... 5-55

Intelligent Emergency Braking (IEB) system
- Activation ..... 5-58
- Operation ..... 5-57
- Warning light ..... 2-14

Intelligent Key ..... 3-2, 3-6, 5-8
- Battery - Discharge ..... 5-10
- Battery - Replacement ..... 8-15
- Battery saver system ..... 3-10
- Operating range ..... 3-8
- Operation ..... 3-8
- Radio approval number and information ..... 9-9
- Warning signals ..... 3-11

Intelligent Lane Intervention system ..... 5-23
Intelligent Ride Control ..... 5-77
Intelligent Trace Control ..... 5-76

Interior
- Light control switch ..... 2-58
- Lights — Operation ..... 2-58
- Overview ..... 0-5

ISOFIX
- Anchor locations ..... 1-18, 1-19
- Child restraints ..... 1-18
- Installation ..... 1-19

## J

Jump starting ..... 6-13

## K

Keys
- Intelligent Key ..... 3-2, 3-6
- Intelligent Key - Battery discharge ..... 5-10
- Intelligent Key - Battery replacement ..... 8-15
- Intelligent Key - Operating range ..... 3-8
- Mechanical key ..... 3-3
- Troubleshooting ..... 3-12
- Using Intelligent Key system ..... 3-8

## L

Labels
- Air conditioner ..... 9-7
- Battery caution label ..... 8-9
- Tyres ..... 9-7
- Vehicle indentification ..... 9-6

Lane Departure Warning (LDW) ..... 5-20
- Off switch ..... 5-21
- Operation ..... 5-21

Li-ion battery
- Available charge gauge ..... 2-8
- Battery life ..... EV-14
- Charging ..... CH-18, CH-4
- Driving - Discharged battery ..... EV-3, 6-15
- Driving range ..... 5-68
- Home Charging Unit ..... CH-9
- Normal Charging ..... CH-7
- Power meter ..... 2-7
- Quick Charging ..... CH-5
- Troubleshooting ..... CH-23
- V2X Charge/discharge ..... CH-15
- Warning displays ..... 2-37

Lights ..... 8-16
- Bulb information ..... 8-18
- Daytime running lights ..... 5-10
- Exterior — Bulb information ..... 8-18
- Exterior — Locations ..... 8-16
- Front fog lights ..... 2-50
- Glove box ..... 2-59
- Headlights ..... 2-46
- Interior — Information ..... 8-18
- Luggage compartment ..... 2-59
- Rear fog lights ..... 2-50
- Replacement ..... 8-17
- Switch — Fog lights ..... 2-50
- Switch — Hazard warning flasher ..... 6-2
- Switch — Headlights ..... 2-46
- Switch — Turn signal ..... 2-46, 2-49
- Warning lights ..... 2-10

Lithium ion (Li-ion) battery ..... EV-2

Locks
- Child safety ..... 3-6
- Locking (inside lock knob) ..... 3-4
- Locking (power door lock switch) ..... 3-5
- Super lock system ..... 3-4

Luggage compartment
- Light ..... 2-59

## M

Maintenance
- Camera unit ..... 5-23, 5-27
- General maintenance ..... 8-2
- Indicator ..... 2-26
- Parking sensor system ..... 5-70
- Precautions ..... 8-4
- Requirements ..... 8-2
- Seat belts ..... 1-12

Mechanical key ..... 3-4

Messages
- Operation indicators ..... 2-29

Meters and gauges ..... 2-6
- Available charge gauge ..... 2-8
- Brightness control ..... 2-46
- Driving range ..... 2-8
- Odometer ..... 2-7
- Overview ..... 0-10
- Power ..... 2-7
- Speedometer ..... 2-6

Mirrors ..... 3-18
- Automatic anti-dazzling ..... 3-19
- Outside rearview mirrors ..... 3-19
- Rear-view (Inside) ..... 3-18
- Vanity mirror ..... 3-21

Mobile phone integration for FM AM radio with CD player ..... 4-48

Monitor
- RearView ..... 4-2

Motor
- Overview ..... 0-11

## O

Outside rearview mirrors ..... 3-19
- Adjustment ..... 3-19
- Defogging ..... 3-19
- Folding ..... 3-19

Overview
- Cockpit ..... 0-6, 2-2
- Exterior ..... 0-3
- Instrument panel ..... 0-8, 2-4
- Interior ..... 0-5
- Meters and gauges ..... 0-10
- Motor compartment ..... 0-11
- Seats, Seat belts, Supplemental restraint system ..... 0-2

## P

Parking ..... 5-71
- Brake ..... 5-15
- Ultrasonic parking sensors ..... 5-68

Parking sensors
- Maintenance ..... 5-70

Phone
- Bluetooth® Hands-Free ..... 4-48

Power
- Door lock switch ..... 3-5
- Outlet ..... 2-53
- Power windows ..... 2-56

Precautions
- Audio ..... 4-26
- Brakes ..... 5-72
- Charging ..... CH-3
- Child restraints ..... 1-13
- Cruise control ..... 5-38
- High voltage ..... EV-5
- Intelligent Emergency Braking (IEB) ..... 5-52
- Maintenance ..... 8-4
- Predictive guide lines ..... 4-14
- Seat belts ..... 1-7
- Starting and driving ..... 5-11
- Supplemental Restraint System ..... 1-25
- Towing ..... 6-16
- When starting and driving ..... 5-2

Pregnant women ..... 1-9

Protection
- Corrosion ..... 7-5

Push starting ..... 6-16

## R

Radio
- Anti-theft system ..... 4-35
- Approval number and information ..... 9-9
- EV (Electric Vehicle) navigation system ..... 4-48
- FM AM radio with CD — AUX ..... 4-41
- FM AM radio with CD — Bluetooth ..... 4-43
- FM AM radio with CD — CD ..... 4-39
- FM AM radio with CD — Language ..... 4-39
- FM AM radio with CD — Media ..... 4-39
- FM AM radio with CD — Radio ..... 4-36
- FM AM radio with CD — Settings ..... 4-37
- FM AM radio with CD — USB ..... 4-41
- FM-AM radio with CD player ..... 4-34
- NissanConnect ..... 4-48

Radio transmitter ..... 9-8

Rear Cross Traffic Alert (RCTA)
- Operation ..... 5-33

Rear Cross Traffic Alert (RCTA) system ..... 5-32

Rear window
- Defogger ..... 2-45
- Wiper and washer ..... 2-45

Rearview
- Mirrors - Inside ..... 3-18
- Mirrors - Outside ..... 3-19

RearView monitor ..... 4-2
- Displayed lines ..... 4-3
- Tips ..... 4-6

Replacement
- Coolant ..... 8-6
- Headlights ..... 8-17
- Wiper blades ..... 8-10

Roadside assistance programme ..... 6-2

## S

Safety
- Child safety rear door locks ..... 3-6
- Children ..... 1-12
- Emergency shut-off system ..... EV-7
- Head restraints ..... 1-5
- Pregnant women ..... 1-9
- Seat belts ..... 1-7

Seat belts ..... 1-7
- CENTER mark ..... 1-12
- Child safety ..... 1-12
- Cleaning ..... 7-5
- Hooks ..... 1-11
- Infants and Children ..... 1-12
- Injured persons ..... 1-9
- Maintenance ..... 1-12
- Precautions ..... 1-7
- Pregnant women ..... 1-9
- Shoulder belt height adjustment ..... 1-11

- Three-point type ... 1-10
Seats ... 1-2
- Adjustment (Manual) ... 1-3
- Folding ... 1-4
- Front seats ... 1-3
- Head restraints ... 1-5
- Rear ... 1-4
Security system
- Alarm system ... 2-41
- NISSAN Anti-Theft System (NATS) ... 2-42
- Ultrasonic sensor ... 2-41
- Vehicle security ... 2-41
Settings
- Intelligent Around-View Monitor ... 4-17
- Reset ... 2-27
- Vehicle ... 2-23
- Vehicle Information Display ... 2-21
Specifications ... 9-4
- Charging system ... 9-4
- Motor ... 9-5
- Wheels and tyres ... 9-5
Starting ... 5-11
- Precautions ... 5-11, 5-2
- Push button power switch ... 5-8
Steering wheel
- Adjustment ... 3-17
- Electric power steering ... 5-72
- Switches — Audio control ... 4-32
- Switches — Hands-free telephone control ... 4-48
Storage ... 2-53
- Bottle holders ... 2-54
- Coat hooks ... 2-55
- Console box ... 2-54
- Cup holders ... 2-53
- Glove box ... 2-54
- Luggage hooks ... 2-56
- Tonneau cover ... 2-55
Sun visors ... 3-18
Super lock system ... 3-4
Supplemental Restraint System (SRS) ... 0-2, 1-25
- Air bags ... 1-25, 1-31
- Pre-tensioner seat belt system ... 1-29, 1-32
- Precautions ... 1-25
- Repair and replacement procedure ... 1-33
Switches
- Defogger ... 2-45
- ECO button ... EV-11
- ECO mode ... 5-14
- Fog lights ... 2-50
- Hazard indicator flasher switch ... 6-2
- Headlight aiming ... 2-49
- Heated seats ... 2-51
- Heated steering wheel ... 2-52
- Interior light ... 2-58
- Lane Departure Warning (LDW) ... 5-21
- Parking brake ... 5-15
- Power windows ... 2-57
- Push-button power ... 5-8
- Rain-sensing auto wiper ... 2-44
- Rear window wiper and washer ... 2-45
- Steering-wheel — Audio ... 4-32
- Steering-wheel — Phone ... 4-33
- Turn signal ... 2-49
- Ultrasonic parking sensors ... 5-69
- Windscreen wiper and washer ... 2-43


## T


Tailgate ... 3-15
Temperature ... 2-9
Tilting steering wheel ... 3-17
Tips
- Climate Control Timer ... 4-25
Towing ... 6-16
- Flat towing ... 9-8
- Precautions ... 6-16
- Recommendations ... 6-17
- Trailer ... 9-8
- Your vehicle ... 6-17
Trailer
- Towing ... 9-8
Transferring registration to another country ... 9-5
Travelling ... 9-5
Trip computer ... 2-32
Troubleshooting
- Keys ... 3-12
Turn signal
- Operation ... 2-49
Tyre Pressure Monitoring System (TPMS) ... 5-2, 6-7
- Precautions ... 5-2
- Resetting ... 5-6
Tyres
- Flat tyre ... 6-3
- Snow chains ... 8-20
- Spare ... 6-3
- Wear and damage ... 8-21
- Wheels and tyres ... 8-19


## U


Universal child restraints
- Rear seats ... 1-15
USB (Universal Serial Bus)
- Connection Port ... 4-27, 4-41

## V


V2X Charge/discharge ..... CH-15
- Starting ..... CH-15
- Stopping ..... CH-17

Vehicle
- Efficient use ..... EV-13
- Security ..... 2-41

Vehicle identification ..... 9-6
- Air conditioner label ..... 9-7
- Label ..... 9-6
- Number (VIN) (chassis number) ..... 9-6
- Number (VIN) plate ..... 9-6
- Tyre placard ..... 9-7

Vehicle Information Display ..... 2-20
- Messages ..... 2-29
- Settings ..... 2-21
- Trip computer ..... 2-32

Vehicle Sound for Pedestrians (VSP)
- Switch ..... 2-60

Vents ..... 4-19


## W


Warning labels
- Air bags ..... 1-29

Warning/indicator lights and audible reminders ..... 2-10
- Air bags ..... 1-30
- Audible reminders ..... 2-19
- Indicator lights ..... 2-17
- Messages ..... 2-29
- Warning lights ..... 2-11

Warnings
- Theft warning system ..... 2-41

Window washer fluid ..... 8-8

Windows
- Defogger ..... 2-45
- Power — Operation ..... 2-57
- Power windows ..... 2-56

Windscreen
- Wiper and washer switch ..... 2-43

Winter
- Precautions ..... 5-77

Wipers
- Blades replacement ..... 8-10
- Operation (Rear window) ..... 2-45
- Operation (Windscreen) ..... 2-43
- Rain-sensing auto wiper ..... 2-44
- Wiper and washer switch ..... 2-43

## COLD TYRE PRESSURES

The label is typically located on the driver's side centre pillar or on the driver's door. For additional information, see "Wheels and tyres" in the "9. Maintenance and do-it-yourself" section.

## ENVIRONMENT (End of Life Vehicles)

Today, the efforts made by NISSAN to fulfil our responsibilities to protect and sustain the environment are far reaching. Within NISSAN, we promote the highest levels of practice in every area of operations.

### COMPLIANCE AT EVERY STEP

NISSAN focuses on ensuring that end of life vehicle components are reused, recycled or recovered as thermal energy, and guarantees compliance with EU legislation (the End of Life Vehicle Directive).

### WE BUILD OUR VEHICLES WITH RECYCLING IN MIND

Reducing landfill waste, emissions, conserving natural resources, and enhancing recycling activities are emphasised daily in our manufacturing, sales and service operations and in the disposal of end of life vehicles (ELV).

#### Design phase

To reduce environmental impact we have developed your NISSAN vehicle to be 95% recyclable. We mark the components to facilitate dismantling, recycling and to reduce hazardous substances. We carefully verify and control substances of concern. We have already reduced to a minimum the cadmium, mercury and lead in your NISSAN vehicle. NISSAN includes recycled material in your vehicle and looks for opportunities to increase the percentage of recycled materials used.

#### Recycling

Recycle your end of life vehicle or its components. When your NISSAN reaches the end of its life and is no longer suitable for daily use, it still has value. You can help prevent waste affecting the environment by bringing your NISSAN to be recycled at our collection networks in your area. Our collection networks guarantee no cost for the treatment of your ELV. For further information on how and where to dispose of your ELV refer to your local knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer. For information about the recycling or disposal of the Li-ion battery contact a knowledgeable LEAF repairer such as a NISSAN certified electric vehicle dealer.

## AIRBAG LABEL (where fitted)




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.

NE JAMAIS utiliser un dispositif de retenue pour enfant de type dos à la route sur un siège protégé par un AIRBAG ACTIVÉ placé devant lui. Cela peut entrainer la MORT de l'ENFANT ou des BLESSURES GRAVES.

Installieren Sie niemals ein entgegen der Fahrtrichtung angeordnetes Kinderrückhaltesystem auf einem Sitz mit aktiviertem Frontairbag. Es könnte zum Tod oder schweren Verletzungen des Kindes führen.

No instalar nunca los sistemas de retención para niños (sillitas de niño) de espaldas al sentido de la marcha en el asiento del pasajero protegido por un AIRBAG frontal ACTIVO. Esto puede provocar la MUERTE del niño o DAÑARLE SERIAMENTE.

«NON INSTALLARE MAI un seggiolino per bambini rivolto con verso opposto al senso di marcia su un sedile protetto da un AIRBAG frontale ATTIVO. In caso di incidente questo potrebbe risultare molto pericoloso per l'incolumità del bambino.»

Plaats nooit een kinderzitje achterstevoren op de passagiersstoel voorin als de airbags van de voorpassagier niet zijn uitgeschakeld. Dit kan ernstige of zelfs dodelijke verwondingen van het kind veroorzaken.

NUNCA utilize um sistema de retenção de criança virado para a traseira num banco protegido por um AIRBAG ACTIVO à sua frente, porque pode ocorrer MORTE ou FERIMENTOS GRAVES na CRIANÇA.

W żadnym przypadku NIE NALEŻY stosować fotelików dla dzieci skierowanych twarzą do tyłu przed siedzeniami chronionymi AKTYWNĄ PODUSZKĄ POWIETRZNĄ. Może to doprowadzić do POWAŻNYCH OBRAŻEŃ lub nawet ŚMIERCI DZIECKA.

NIKDY nepoužívejte dětskou sedačku směřující dozadu na sedadle s AKTIVNÍM čelním AIRBAGEM, mohlo by dojít k USMRCENÍ nebo VÁŽNÉMU ZRANĚNÍ DÍTĚTE.

Önünde AKTİF BİR HAVA YASTIĞI ile korununan bir koltuğa hiç bir zaman yüzü geriye bakan bir çocuk koltuğu KOYMAYIN, bu ÇOCUĞUN ÖLÜMÜNE veya CİDDİ ŞEKİLDE YARALANMASINA neden olabilir.

Nu folosiți NICIODATĂ un scaun pentru copil cu spatele la direcția de deplasare pe un scaun protejat de un AIRBAG ACTIV amplasat în fața sa, deoarece există riscul de DECES sau RĂNIRE GRAVĂ a copilului.

SOHA ne használjon hátrafelé néző gyermekülést olyan ülésen, amelyet elölről AKTÍV LÉGZSÁK véd, mert az a GYERMEK HALÁLÁT vagy SÚLYOS SÉRÜLÉSÉT okozhatja.

"ΑΠΑΓΟΡΕΥΕΤΑΙ η τοποθέτηση παιδικού καθίσματος, με την πλάτη προς το εμπρόσθιο μέρος του αυτοκινήτου, στο κάθισμα του συνοδηγού, επειδή μπροστά του υπάρχει ΕΝΕΡΓΟΣ ΜΕΤΩΠΙΚΟΣ ΑΕΡΟΣΑΚΟΣ. Μπορεί να επέλθει, ΘΑΝΑΤΟΣ ή ΣΟΒΑΡΟΣ ΤΡΑΥΜΑΤΙΣΜΟΣ του ΠΑΙΔΙΟΥ".

Använd ALDRIG en bakåtvänd barnstol på ett säte som skyddas av en AKTIVERAD AIRBAG framför det; LIVSFARA eller risk för ALLVARLIGA SKADOR.

ÄLÄ KOSKAAN käytä kasvot taaksepäin suunnattua lastenistuinta istuimella, jossa on KÄYTÖSSÄ OLEVA TURVATYYNY. Seurauksena voi olla KUOLEMA tai LAPSEN VAKAVA LOUKKAANTUMINEN.

Brug ALDRIG et bagudvendt barnesæde på et sæde, der er beskyttet af en AKTIV AIRBAG foran det. Det kan resultere i DØD eller ALVORLIG PERSONSKADE på BARNET.




NEMOJTE upotrebljavati sjedalicu za djecu okrenutu prema natrag na sjedalu ispred kojega se nalazi zaštićeni AKTIVNI ZRAČNI JASTUK, može doći do SMRTONOSNIH ili OZBILJNIH OZLJEDA za DIJETE.

NIKOLI ne namestite otroškega sedeža, obrnjenega v nasprotni smeri smeri vožnje, v primeru VKLOPLJENE varnostne blazine. To lahko povzroči OTROKOVO SMRT ali HUDE TELESNE POŠKODBE.

Никогда не устанавливайте обращенное назад детское удерживающее сиденье на переднем пассажирском сиденье при неотключенной подушке безопасности. Это может привести к смерти ребенка или к тяжелым повреждениям.

NIKDY nepoužívajte detskú sedačku smerujúcu dozadu na sedadle s AKTÍVNYM čelným AIRBAGOM, mohlo by prísť k USMRTENIU alebo VÁŽNEMU ZRANENIU DIEŤAŤA.

ÄRGE kasutage seljaga sõidusuunas laste turvatooli istmel, mille ees on AKTIIVNE TURVAPADI. LAPS võib saada TÕSISE KEHAVIGASTUSE või HUKKUDA.

NEIEVIETOJIET ar skatu pretēji braukšanas virzienam vērstu bērnu sēdeklīti šajā sēdeklī, ja tā priekšā uzstādītais GAISA SPILVENS ir AKTIVIZĒTS, – tas BĒRNAM var radīt NOPIETNAS TRAUMAS vai pat izraisīt BĒRNA NĀVI.

NUNCA utilize uma cadeirinha protetora para crianças voltada para a traseira em um assento que seja protegido por um AIRBAG ATIVO na frente do assento. Podem ocorrer MORTE ou FERIMENTOS GRAVES para a CRIANÇA.

NIEKADA nevežkite vaikų prie automobilio sėdynės atvirkščiai judėjimo krypčiai pritvirtintoje specialioje kėdutėje, jeigu ši sėdynė apsaugota VEIKIANČIA SAUGOS PAGALVE, nes VAIKUI kyla MIRTINAS ar SUNKAUS SUŽEIDIMO pavojus.

Ніколи не встановлюйте дитяче крісло спинкою вперед на сидінні, передня ПОДУШКА БЕЗПЕКИ якого не заблокована. Ризик ЗАГИБЕЛІ або ТЯЖКИХ ТРАВМ дитини.

„Никога на използвайте детско столче за автомобил, монтирано с гръб към движението, на седалка оборудвана с предпазна въздушна възглавница пред нея. Съществува риск за живота или сериозно нараняване на детето!"

يحذر نهائيًا تثبيت مقعد الطفل بشكل عكسي على القعد المحمي بوسادة هوائية نشطة أمام مقعد الطفل، فمن الممكن أن يتسبب ذلك في وفاة الطفل أو إصابته بجروح خطيرة

ALDREI má nota festingar sem snúa afturábak á sæti sem varið er með ACTIVE AIRBAG að framan. Það getur valdið DAUÐA eða ALVARLEGUM MEIÐSLUM á BARNINU.

Na sedež, ki je spredaj zaščiten z ZRAČNO BLAZINO,NIKOLI ne namestite otroškega sedeža tako, da otrok gleda nazaj: nevarnost SMRTI ali RESNE TELESNE POŠKODBE OTROKA

هرگز از کمربند کودک رو به پشت در روبروی صندلی حفاظت شده توسط ACTIVE AIRBAG (کیسه هوای فعال) استفاده نکنید. این کار ممکن است باعث مرگ یا جراحت شدید در کودک شود.

절대로 능동형 에어백이 전면에 설치된 좌석에 후향식 어린이 보호시트를 사용하지 마십시오. 어린이에게 심각한 상해를 입히거나 사망에 이르게 할 수 있습니다.

前部に作動可能なエアバッグが装着されているシートに、後ろ向きのチャイルドシートを絶対に使用しないでください。お子様に死や大けがを招く恐れがあります。

禁止在座椅前部安全气囊激活的情况下，在该座椅上使用后向儿童安全座椅，可能造成儿童严重受伤甚至死亡。

## QUICK REFERENCE

- In case of emergency ... 6-2
  (Flat tyre, electric vehicle system will not start, overheating, towing)
- How to start the electric vehicle system ... 5-2
- How to read the meters and gauges ... 2-6
- Maintenance and do-it-yourself ... 8-2
- Technical information ... 9-2

## SECURITY INFORMATION

As owner of this vehicle important codes have been supplied to you that may be required by your NISSAN dealer to duplicate keys or repair the radio.

Please fill in the allocated areas or attach sticker(s) if available. Remove this page and keep it in a safe place, **not in the vehicle**.

When selling your vehicle, we kindly request you to hand over this page to the buyer.

## SECURITY INFORMATION

Radio security code (where fitted) | | | | |

Key number | | | | | |

Wheel lock key code (where fitted) | | | | | | | | |

Remove this page from the manual and keep it in a safe place, **not in the vehicle**.

When selling your vehicle, we kindly request you to hand over this page to the buyer.

NISSAN

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