

# Foreword

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

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

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

## IMPORTANT SAFETY INFORMATION

### Reminders for safety!

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

- **NEVER drive under the influence of alcohol or drugs.**
- **ALWAYS observe posted speed limits and never drive too fast for conditions.**
- **ALWAYS use your seat belts and appropriate child restraint systems. Preteen 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.**

## 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 designs without notice and without obligation.

## MODIFICATION OF YOUR VEHICLE

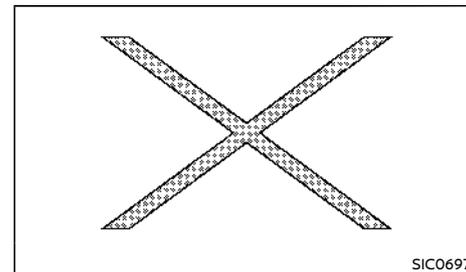
This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regulations. In addition, damage or performance problems resulting from modifications may not be covered under NISSAN warranties.

## Read first - then drive safely

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

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

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



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



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



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



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



Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Shenzhen Hangsheng Electronics Co., Ltd.

**Air bag warning labels:**



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

Be sure to read "Air bag warning labels" (P.1-23).

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# Table of Contents

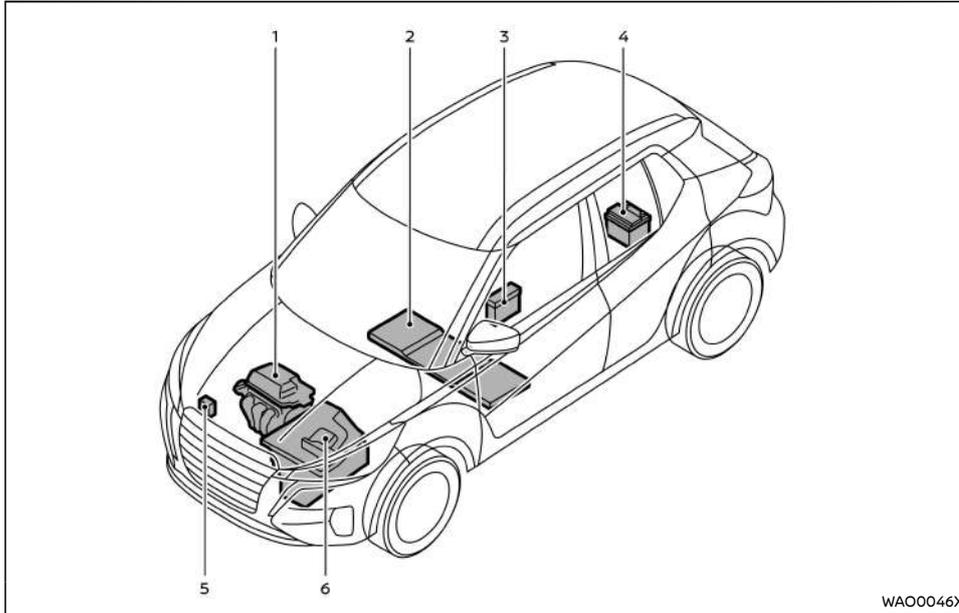
	<b>e-POWER System</b>
<b>e-POWER system overview</b>	
<b>Illustrated table of contents</b>	<b>0</b>
<b>Safety – seats, seat belts and supplemental restraint system</b>	<b>1</b>
<b>Instruments and controls</b>	<b>2</b>
<b>Pre-driving checks and adjustments</b>	<b>3</b>
<b>Monitor, cooler and air conditioner, and audio system</b>	<b>4</b>
<b>Starting and driving</b>	<b>5</b>
<b>In case of emergency</b>	<b>6</b>
<b>Appearance and care</b>	<b>7</b>
<b>Maintenance and do-it-yourself</b>	<b>8</b>
<b>Technical information</b>	<b>9</b>
<b>Index</b>	<b>10</b>



# e-POWER system overview

NISSAN e-POWER system .....	e-POWER System-2	Emergency shut-off system .....	e-POWER System-6
Electric motors .....	e-POWER System-2	Efficient use of your vehicle .....	e-POWER System-6
Lithium ion (Li-ion) battery .....	e-POWER System-3	Before driving .....	e-POWER System-6
Regenerative brake .....	e-POWER System-3	When driving .....	e-POWER System-6
When the vehicle starts the engine .....	e-POWER System-3	e-POWER Drive .....	e-POWER System-7
e-POWER system precautions .....	e-POWER System-4	Charge mode .....	e-POWER System-8
High voltage components .....	e-POWER System-4	EV mode .....	e-POWER System-9
e-POWER system characteristics .....	e-POWER System-5	Approaching Vehicle Sound for Pedestrians (VSP) system .....	e-POWER System-10
Road accident cautions .....	e-POWER System-5		

## NISSAN e-POWER SYSTEM



1. Gasoline engine
2. Lithium ion (Li-ion) battery
3. DC/DC converter
4. 12-volt battery
5. Approaching Vehicle Sound for Pedestrians (VSP) system
6. Inverter, Electric motor for driving and Electric motor for power generation

The NISSAN e-POWER system generates electric power by running the electric motor (for power generation) with the gasoline engine,

e-POWER System-2 **e-POWER system overview**

## ELECTRIC MOTORS

This vehicle has two types of electric motors.

- Electric motor for driving
- Electric motor for power generation

The electric motor for driving generates electric power to drive the vehicle instead of the engine, using the electric power stored in the Lithium ion (Li-ion) battery or the generated electric power by the engine and electric motor.

The electric motor for power generation is powered by the gasoline engine and generates electric power.

## LITHIUM ION (Li-ion) BATTERY

The Lithium ion (Li-ion) battery is charged with the electric power generated by the electric motor for power generation and/or the regenerative power from the electric motor for driving. While driving, the Li-ion battery provides the stored electric power to the electric motor for driving. Because the engine charges the Li-ion battery when the level of remaining charge in the Li-ion battery is low, the battery does not have to be charged from an outside source like an all-electric vehicle. If the vehicle is parked for a long period of time, the Li-ion battery discharges gradually. To avoid this occurrence, drive the vehicle for approximately 30 minutes at least once every two to three months. Otherwise, the Li-ion battery may be damaged. If the Li-ion battery is completely discharged and the e-POWER system cannot be activated, contact a NISSAN dealer.

## REGENERATIVE BRAKE

The regenerative brake is a function that can reduce the vehicle speed by using the electric motor instead of the engine braking for the gasoline engine vehicle. The Lithium ion (Li-ion) battery can be charged by the generated electric power when the vehicle decelerates, saving electric power consumption and improving fuel efficiency.

### NOTE:

**The regenerative brake may provide less deceleration when the Li-ion battery is fully charged while driving on a long downhill road, when the outside temperature is low or when driving on a slippery road.**

## WHEN THE VEHICLE STARTS THE ENGINE

In the e-POWER system, the engine may run under the following conditions.

- When the Lithium ion (Li-ion) battery charge is low (to generate electric power)
- When depressing the accelerator pedal strongly (to generate electric power)
- When depressing the brake pedal (to generate negative pressure of the brake booster)
- When driving on a long downhill (to generate deceleration)
- When the engine is cold (to warm up the engine)
- When opening the hood with the e-POWER system running (to avoid an accident when performing maintenance)
- During charge mode (to generate electric power)
- When turning on the front defogger switch

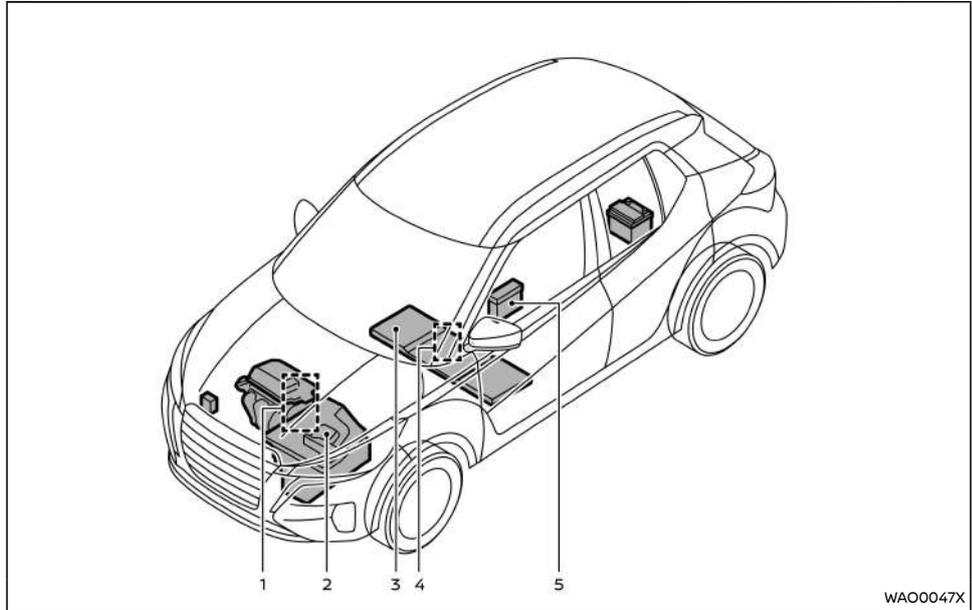
## e-POWER SYSTEM PRECAUTIONS

### HIGH VOLTAGE COMPONENTS



#### WARNING:

- The e-POWER system uses high voltage up to approximately 350 volts. Obey the caution labels attached to the high voltage components.
- Never touch high voltage harnesses, their connectors or high voltage parts (electric motor for driving and Lithium ion (Li-ion) battery, etc.). Touching, disassembling, removing or replacing those parts and harnesses can cause severe burns or electric shock that may result in serious injury or death.



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The e-POWER system consists of the following high voltage parts.

1. High voltage harnesses (orange)

These harnesses are high voltage and orange-colored. Be sure not to touch the harnesses or remove the connector on the base of the cable.

2. Inverter, electric motor for power generation and electric motor for driving

a. Inverter

This device controls various functions related to the e-POWER system. Be careful because it

can be hot after driving.

b. Electric motor for power generation

This motor is for generating electric power. Be careful because it can be hot after driving.

c. Electric motor for driving

This motor is for running the vehicle. Be careful because it can be hot after driving.

3. Lithium ion (Li-ion) battery

This battery is charged from the electric power generated by the electric motor (power generation) and/or the regenerative power from

the electric motor (driving). The Li-ion battery also supplies the electric power to the electric motor (driving) while driving.

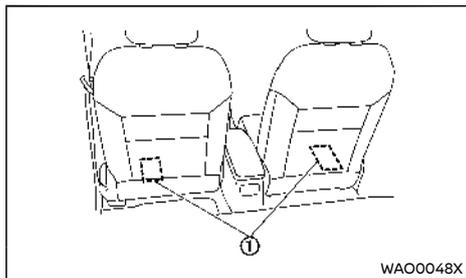
#### 4. Service plug

This plug is used to cut-off the high voltage when performing maintenance. Never touch this plug.

#### 5. DC/DC converter

This converter is for converting Li-ion battery power to 12-volt battery voltage.

### e-POWER SYSTEM CHARACTERISTICS



The air inlets ① for cooling the Lithium ion (Li-ion) battery are located under the front seats.



#### CAUTION:

- Do not cover the air inlets. Otherwise it will reduce output performance of the e-POWER system or cause vehicle damage. Additionally, do not allow any liquid or sand to get in the air inlet.
- Do not spill water onto the Li-ion battery or load large amounts of water in open containers (aquariums or buckets) into the vehicle. If the water spills onto the Li-ion battery, it may cause a short circuit

and damage the Li-ion battery.

- Do not place any heavy objects under the front seats or stomp the floor around there, as the Li-ion battery is located under the front seats.
- If a large amount of liquid is spilled onto the Li-ion battery area, contact a NISSAN dealer as soon as possible.

#### Noise and vibration

After the e-POWER system is activated, the following noises and vibrations that are unique to the e-POWER system may occur. This does not indicate a malfunction.

- Electric motor noise from the engine compartment
- Noise and vibration when the engine starts or stops running
- Operating noise or electric motor noise when releasing the accelerator pedal or depressing the brake pedal
- Engine noise due to rapid acceleration
- Fan noise from under the front seat
- Noise from the vehicle in order to alert pedestrians to the presence of an approaching vehicle. See "Approaching Vehicle Sound for Pedestrians (VSP) system" (P. e-POWER System-10).

#### NOTE:

Higher engine idling speed is set for this vehicle, compared to the one for a conventional gasoline engine model. This is to charge the Li-ion battery with the engine during idling, and it is not a malfunction.

### ROAD ACCIDENT CAUTIONS



#### WARNING:

In case of a collision or an accident, be sure to observe the following warnings.

- Pull your vehicle off the road, place the vehicle in the "P" (Park) position, apply the parking brake and turn the e-POWER system off.
- Never touch the high voltage parts or harnesses if they are exposed. For the locations of the high voltage parts and harnesses, see "High voltage components" (P.e-POWER System-4).
- Inspect the ground under the vehicle. If you noticed liquid spilled from the Lithium ion (Li-ion) battery, contact a NISSAN dealer or emergency services as soon as possible. Ignoring such conditions may lead to a fire.
- Never touch the liquid leaked on interior surfaces or outside the vehicle. If the liquid spilled from the Li-ion battery comes into contact with skin or clothes, immediately flush the area with plenty of clean water and see a doctor.
- If the vehicle receives a strong impact to the floor while driving, stop the vehicle in a safe location and check the floor. If the floor is damaged, never touch it and contact a NISSAN dealer as soon as possible.
- If a fire occurs in the Li-ion battery or high voltage parts, leave the vehicle as soon as possible. When extinguishing the fire, use a type ABC, BC or C fire extinguisher that is meant for use on electrical fires. Water can be used only when a large amount of water from a fire hydrant is available. Never attempt to extinguish a fire in an

## 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 supplemental air bags are deployed.
- Certain rear collisions.
- Certain e-POWER system malfunctions.

For the above collisions and the certain e-POWER system malfunctions, the READY to drive indicator light will turn off. See "Warning lights, indicator lights and audible reminders" (P.2-8).

The emergency shut-off system activates for the above collisions to minimize risk of an event that could cause an injury or an accident. If the emergency shut-off system activates, the power switch may not switch to the READY to drive position. If this occurs, contact a NISSAN 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 NISSAN dealer or contact a NISSAN dealer as soon as possible.

## EFFICIENT USE OF YOUR VEHICLE

The fuel consumption varies considerably depending upon road conditions, weather, temperature, and number of occupants, etc. Keeping the following points in mind and reducing electric power consumption will help improve the fuel efficiency.

### BEFORE DRIVING

- Plan for the route with less power consumption by the vehicle. Driving on uphill roads increases electric power consumption. If you choose the route where there are few uphill roads, the vehicle can reduce electric power consumption.
- Do not leave unnecessary cargo loaded. Removing unnecessary cargo from the vehicle to reduce vehicle weight can reduce electric power consumption.
- Keep the tires inflated to the correct pressure. Low tire pressure increases electric power consumption.

### WHEN DRIVING

- Drive your vehicle with smooth start and acceleration.
  - Abrupt starting and acceleration will consume more electric power and decrease fuel economy.
  - You can accelerate the vehicle with less power consumption by checking the condition of the electric power consumption in the power meter.
- Keep a distance from the vehicle in front of you. Do not decelerate the vehicle more than necessary so that you can decrease the electric power consumption to accelerate again.
- Do not drive at excessive speeds on a highway. Driving at excessive speeds consumes electric power more than necessary.

inappropriate way, as this can be dangerous.

- When towing your vehicle, lift the front wheels or all four wheels. If the vehicle is towed with front wheels on the ground, the electric motor for driving may generate electric power and cause damage to the vehicle.
- If you are not able to safely assess the vehicle due to vehicle damage, do not touch the vehicle. Leave the vehicle and contact a NISSAN dealer or emergency services. Advise 1st responders that this is a vehicle equipped with e-POWER system.
- In the event of an accident that requires body repair and painting, contact a NISSAN dealer.

When the vehicle body is largely damaged or deformed, electrical leakage or shock depending on the damage condition could occur. Never touch the high voltage parts, such as Li-ion battery, and the orange-colored harnesses connected to them.

- Do not drive the vehicle with any exterior lights damaged. If water has leaked inside the light, it may lead to fumes or a fire.

### NOTE:

If the vehicle collides or a malfunction of the e-POWER system occurs, the READY to drive indicator light may be turned off since the high voltage system has been turned off. This is designed to minimize the risk of injury and accidents and is not a malfunction.

## e-POWER DRIVE

There are three drive modes of the e-POWER system. Use each mode according to the purpose.

Drive mode		Features
e-POWER Drive*1	S (Smart)	<p>This mode balances EV-like quick response characteristics and fuel economy.</p> <ul style="list-style-type: none"> <li>• The motor characteristics are emphasized to achieve a high response to accelerator pedal operation.</li> <li>• More electric power is stored in the Lithium ion (Li-ion) battery by enhancing the regenerative brake when the accelerator pedal is not depressed.</li> <li>• Driver can adjust the vehicle speed by only depressing or returning the accelerator pedal.</li> </ul>
	ECO	<p>This mode places emphasis on fuel economy.</p> <ul style="list-style-type: none"> <li>• Moderate accelerating performance is provided to reduce unnecessary electric power consumption.</li> <li>• More electric power is stored in the Li-ion battery by enhancing the regenerative brake when the accelerator pedal is not depressed.</li> <li>• Driver can adjust the vehicle speed by only depressing or returning the accelerator pedal.</li> </ul>
NORMAL		<p>This mode is almost as enjoyable as driving a vehicle powered by a gasoline engine.</p> <ul style="list-style-type: none"> <li>• Smooth acceleration is provided with good response that is characteristic of a motor-driven vehicle.</li> <li>• The feeling of deceleration when releasing the accelerator pedal is similar to that of a vehicle powered by a gasoline engine.</li> </ul>

\*1: ECO mode is recommended for normal driving. S (Smart) mode is recommended for driving with both easy acceleration and fuel efficiency.



### CAUTION:

In S (Smart) mode or ECO mode, be sure to depress the brake pedal when stopping the vehicle. The vehicle may decelerate by releasing the accelerator pedal and come to a stop, but it does not keep the vehicle stopped.

### NOTE:

- In S (Smart) mode or ECO mode, to increase the regenerative brake, releasing the accelerator pedal while driving provides more deceleration than in NORMAL mode, like a strong engine braking is activated.
- In S (Smart) mode or ECO mode, the stop lights may turn on when reducing the vehicle speed without the brake pedal

- Set the cooler/air conditioner at a moderate temperature and turn it off if unnecessary. Redundant power consumption can be reduced by the air conditioner.
- Do not use the defogger more than necessary. After removing fog from the windshield, switching to the other air flow mode reduces the engine operation frequency and improve the fuel economy.
- Drive the vehicle in ECO mode or S (Smart) mode.  
Doing so enhances the decelerating force by regenerative brake when you release the accelerator pedal and can store more electric power in the Lithium ion (Li-ion) battery at the time of decelerating.  
The fuel efficiency improves in the following order: NORMAL mode → S (Smart) mode → ECO mode. ECO mode is the most fuel-efficient mode. (See "e-POWER Drive" (P.e-POWER System-7).)

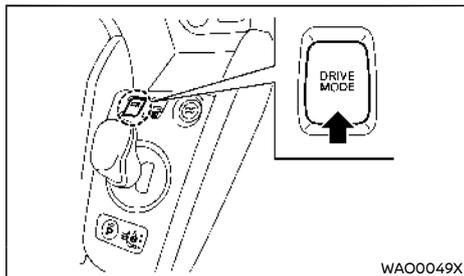
### NOTE:

The following are some conditions in which the fuel economy decreases significantly:

- When driving on a route where there are many uphill roads.
- When continuing driving at a high speed on a highway.
- When starting, accelerating or braking abruptly.

depressed, depending on deceleration.

How to change the drive mode:



- When the power switch is in the "ON" position, push the drive mode switch to change the mode as follows.  
S → ECO → NORMAL → S
- When S (Smart) mode is selected, the S (Smart) mode indicator illuminates in the vehicle information display.
- When ECO mode is selected, the ECO mode indicator illuminates.

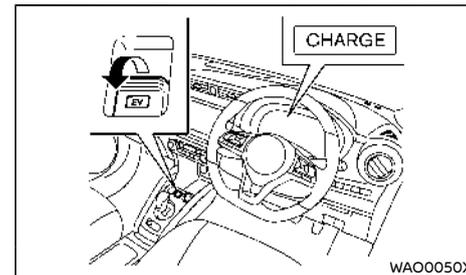
#### NOTE:

- When S (Smart) mode or ECO mode is selected, the shift position cannot be changed to B position.
- If the system malfunction occurs when S (Smart) mode or ECO mode is selected, the mode may automatically be changed to NORMAL mode along with the drive mode indicator blinking.
- If NORMAL mode is changed to S (Smart) mode when the system malfunction occurs, the S (Smart) mode indicator blinks and then turns off, and NORMAL mode is maintained.

## CHARGE MODE

When the charge mode is selected, the engine starts automatically and charges the Lithium ion (Li-ion) battery. This mode is used to charge the Li-ion battery in advance if you wish to lengthen the driving distance with the EV mode.

How to use the charge mode:



- When the READY to drive indicator light illuminates, charge mode is turned on every time the EV mode switch is pulled and held.
- Charge mode can be used when S (Smart) mode or ECO mode of the drive mode is selected.
- When EV mode is on, pulling and holding the EV mode switch changes EV mode to charge mode.
- When charge mode is on, the charge mode indicator illuminates in the vehicle information display.

#### NOTE:

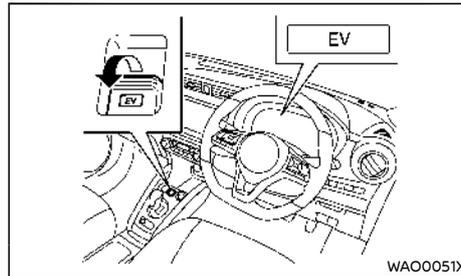
- If the system malfunction occurs, charge mode is automatically turned off.
- When charge mode is on, the fuel consumption increases since the electric power is generated by the engine.

## EV MODE

- When charge mode is on, the Li-ion battery will be charged to close to the full level. Additionally, even if charge mode is being operated, the engine may not start.
- Depending on the system condition, the charging time may increase.
- Even if charge mode is being operated, the Li-ion battery may not be charged if the driving load is high, such as when accelerating abruptly or driving on an uphill road, etc.
- Even if charge mode is on, the electric power generation may be temporarily stopped to protect the Li-ion battery.
- When the outside temperature is low, charge mode may not be used.
- When the outside temperature is low, the charging time may increase.
- If the engine is started by using charge mode when the vehicle is parked or stopped, depending on the country or region, it may be subject to punishment according to the code violation regarding idling stop. For the details of the code regarding idling stop, contact a related local government.

When EV mode is selected, you can drive the vehicle with the chance of engine starting reduced as much as possible. This mode is used when you wish to drive the vehicle quietly on a road such as a residential street in an early morning or a late at night, since the vehicle is powered by the Lithium ion (Li-ion) battery.

### How to use the EV mode:



- When the READY to drive indicator light illuminates, EV mode is turned on every time the EV mode switch is pulled.
- EV mode can be used when S (Smart) mode or ECO mode of the drive mode is selected.
- When charge mode is on, pulling the EV mode switch changes charge mode to EV mode.
- When EV mode is on, the EV mode indicator illuminates in the vehicle information display.
- If the remaining Li-ion battery charge has been increased with charge mode used, the distance that the vehicle can be driven only by the Li-ion battery will be longer.
- When the outside temperature is low, the engine may start. However, when the EV mode is turned on before the engine starts, the vehicle can be driven by only the Li-ion

battery due to reduction of the engine starting.

### NOTE:

- If the system malfunction occurs, EV mode is automatically turned off.
- When the brake pedal is depressed, the engine temporarily starts according to the system's decision. In this case, EV mode is not turned off.
- When EV mode is being operated, EV mode is turned off if the drive mode is changed to NORMAL mode.
- If the accelerator pedal is depressed when the shift position is in the "P" (Park) position, the engine starts and EV mode is turned off.
- If the Li-ion battery is fully charged by the regenerative braking on a long downhill road, EV mode is turned off to protect the Li-ion battery.
- When the accelerator pedal is depressed to the floor on an uphill road or by abrupt acceleration, the engine starts and EV mode is turned off.
- If the hood is opened when the READY to drive indicator light illuminates, the engine starts automatically and EV mode is turned off.
- When the front defogger switch is turned on, the engine starts due to a warm-up operation, and EV mode cannot be used or it is turned off.
- If the system judged that the forced charging is necessary, EV mode is turned off and the engine starts.
- If the system judged that the warm-up operation is necessary, EV mode is turned off and the engine starts.

## APPROACHING VEHICLE SOUND FOR PEDESTRIANS (VSP) SYSTEM

- **When the outside temperature is low, EV mode may not be used.**

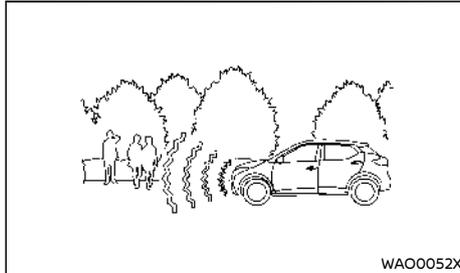
The Approaching Vehicle Sound for Pedestrians (VSP) system is a function that uses sound to help alert pedestrians of the presence of the vehicle when it is being driven at a low speed.

The VSP sounds when the READY to drive indicator light is illuminated under the following conditions:

- When the vehicle speed is within 30 km/h (19 MPH) when starting.
- When the vehicle speed is less than 25 km/h (16 MPH) while decelerating.
- When the shift position is in the "R" (Reverse) position.

The sound stops when the vehicle stops.

If the system malfunction occurs, the VSP warning light  in the meter illuminates. If the VSP warning light illuminates, have the VSP system checked by a NISSAN dealer immediately.



### WARNING:

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 from the VSP system is not heard, contact a NISSAN dealer.

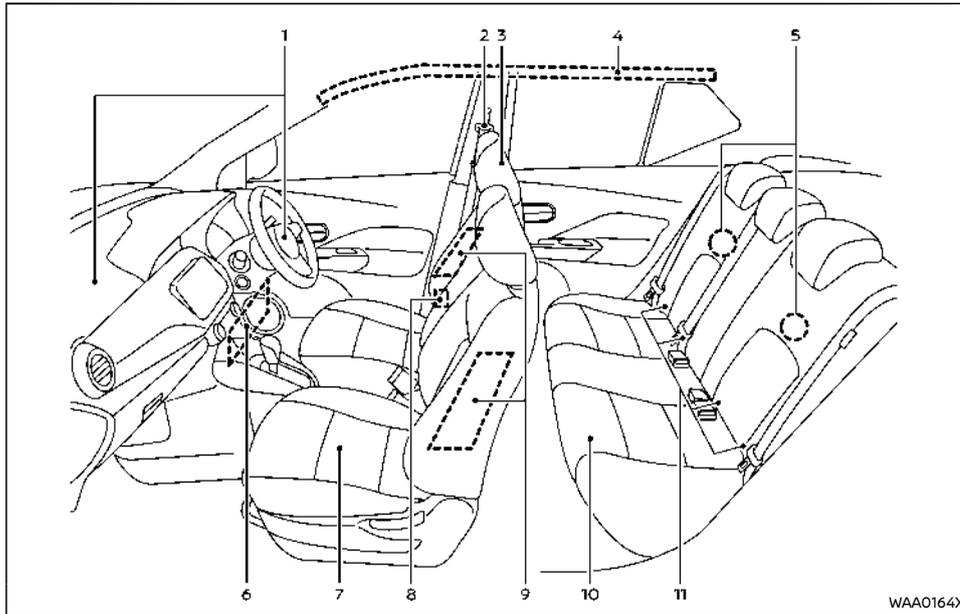
### NOTE:

- The VSP also sounds when all of the following conditions are met, in order to remind you to place the power switch in the "OFF" position.
  - When the shift position is in the "P" (Park) position.
  - When the READY to drive indicator light illuminates.
  - When the driver's seat belt is not fastened.
  - When any door (except the back door) is opened.
- If you wish to increase the volume of the VSP system, contact a NISSAN dealer. (It is not possible to lower the volume.)

# 0 Illustrated table of contents

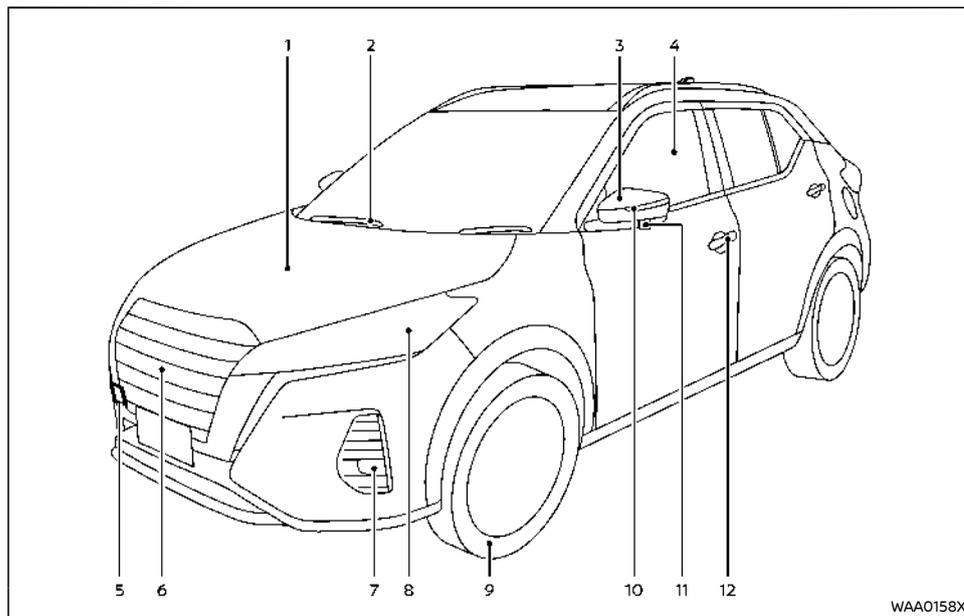
Seats, seat belts and Supplemental Restraint System (SRS) .....	0-2	Cockpit .....	0-6
Exterior front .....	0-3	Instrument panel .....	0-7
Exterior rear .....	0-4	Meters and gauges .....	0-8
Passenger compartment .....	0-5	Engine compartment .....	0-9
		HR12DE engine model .....	0-9

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



- |  |  |
|--|--|
| 1. Supplemental front-impact air bags (P.1-20)                                   | 7. Front seats (P.1-2)                                 |
| 2. Seat belts (P.1-6)  | 8. Pre-tensioner seat belt system* (P.1-28)            |
| 3. Head restraints (P.1-4)   | 9. Supplemental side-impact air bags* (P.1-20)         |
| 4. Supplemental curtain side-impact air bags* (P.1-20)                           | 10. Rear seats (P.1-3)<br>— Child restraints (P. 1-10) |
| 5. Child restraint anchor points (for top tether strap child restraint) (P.1-15) | 11. ISOFIX child restraint system (P.1-14)             |
| 6. Supplemental driver's knee air bag* (P.1-20)                                  | *: if equipped   |

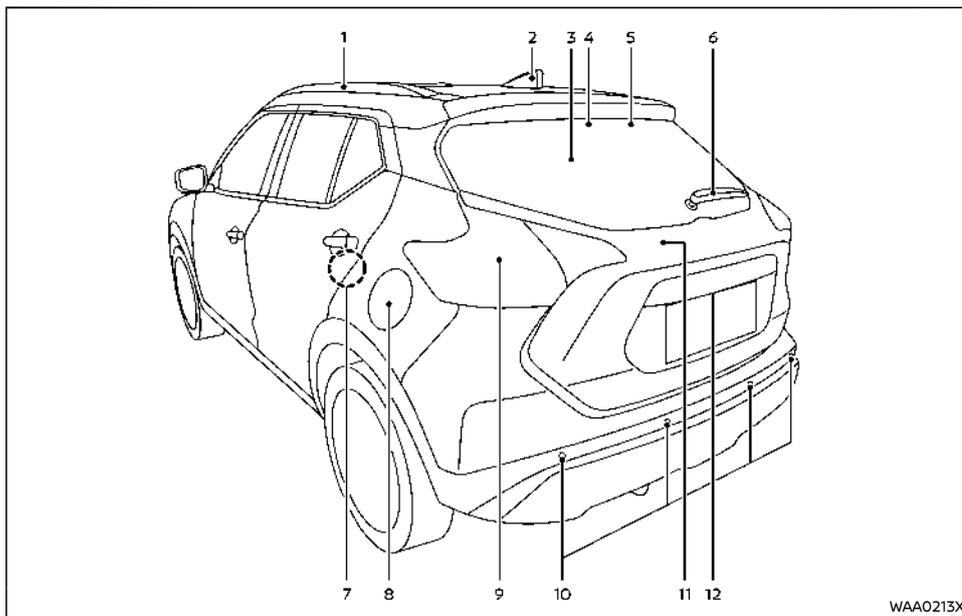
## EXTERIOR FRONT



- |   |   |
|---|---|
| 1. Hood (P.3-13)  | 8. Headlights and turn signal lights (P.2-29)   |
| 2. Windshield wiper and washer<br>– Switch operation (P.2-31)<br>– Window washer fluid (P.8-14) | 9. Tires<br>– Tires and wheels (P.8-24, P.9-5)<br>– Flat tire (P.6-2)                   |
| 3. Outside rearview mirrors (P.3-21)  | 10. Side turn signal lights (P.2-30)  |
| 4. Windows (P.2-33)   | 11. Side view camera* (P.4-3)   |
| 5. Recovery hook (P.6-8)  | 12. Doors<br>– Keys (P.3-2)<br>– Door locks (P.3-3)<br>– Intelligent Key system (P.3-4) |
| 6. Front view camera* (P.4-3)   |   |
| 7. Fog lights* (P.2-31)   |   |

– Security system (P.3-12)  
\*: if equipped

## EXTERIOR REAR

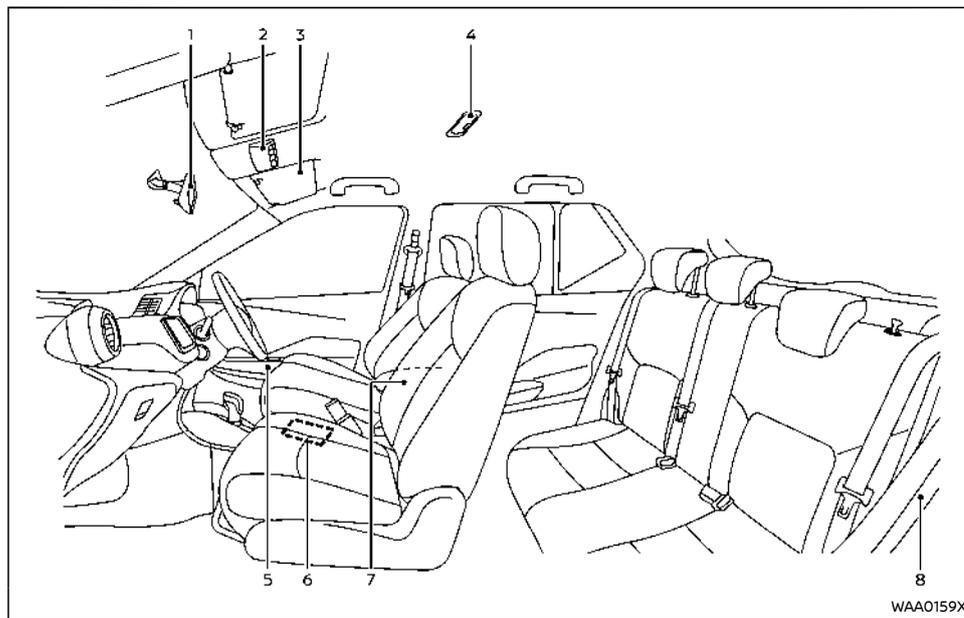


12. Rear view camera\* (P.4-3)

\*: if equipped

- |  |  |
|--|--|
| 1. Roof rack (P.2-37)  | 7. Child safety rear door locks (P.3-4)  |
| 2. Antenna (P.4-30)  | 8. Fuel-filler lid (P.3-16)  |
| 3. Rear window defogger (P.2-32)   | 9. Rear combination lights (P.8-21)  |
| 4. Intelligent Rear View Mirror camera* (P.3-17)   | 10. Parking sensors (sonar)*<br>— Parking sensor (sonar) system* (P.5-48)<br>— Camera aiding parking sensor (sonar) function* (P.4-10) |
| 5. High-mounted stop light (P.8-21)  | 11. Back door (P.3-14)<br>— Intelligent Key system (P.3-4)   |
| 6. Rear window wiper and washer<br>— Switch operation (P.2-31)<br>— Window washer fluid (P.8-14) |  |

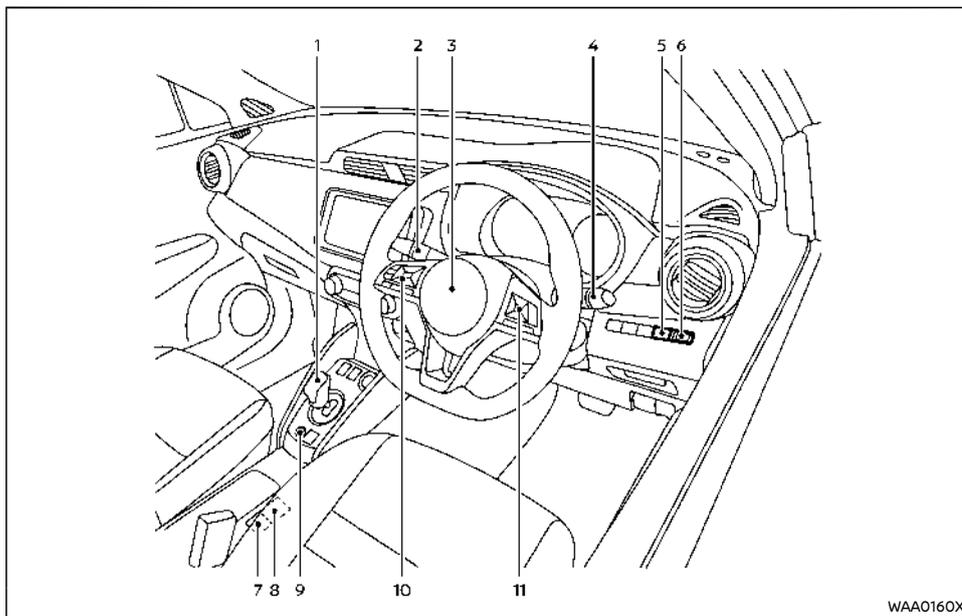
## PASSENGER COMPARTMENT



\*: if equipped

1. Inside rearview mirror (P.3-17)
  - Intelligent Rear View Mirror\* (P.3-17)
2. Map lights (P.2-38)
3. Sun visors (P.2-38, P.2-39)
4. Room light (P.2-39)
5. Door armrest
  - Power window switch (P.2-33)
  - Power door lock switch (driver's side) (P.3-4)
  - Outside rearview mirror remote control switch (driver's side) (P.3-21)
6. Cup holders (P.2-36)
7. Console box (P.2-36)
  - USB (Universal Serial Bus) charging connector (P.2-35)
8. Luggage room
  - Luggage hooks (P.2-37)
  - Cargo cover\* (P.2-37)
  - 12-volt battery (P.8-15)
  - Fuse/fusible link box (P.8-20)
  - Emergency tire puncture repair kit (P.6-2)

## COCKPIT



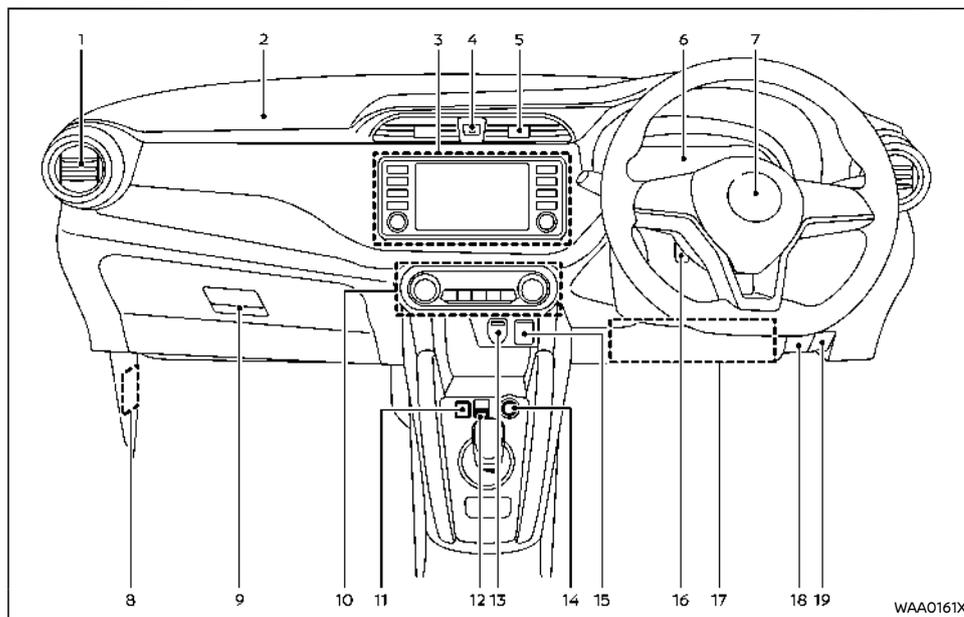
- |   |  |
|---|--|
| 1. Shift lever (P.5-8)                          | 5. Vehicle Dynamic Control (VDC) OFF switch (P.5-11) |
| 2. Wiper and washer switch (P.2-31)             | 6. Headlight aiming control switch (P.2-30)          |
| 3. Steering wheel                               | 7. Automatic brake hold switch (P.3-24)              |
| — Electric power steering (P.5-50)              | 8. Electronic parking brake switch (P.3-22)          |
| — Horn (P.2-33)                                 | 9. P position switch (P.5-8)                         |
| 4. Headlight, fog light* and turn signal switch | 10. Steering-wheel-mounted controls (left side)      |
| — Headlight and turn signal switch (P.2-29)     | — Vehicle information display control (P.2-14)       |
| — Fog light switch* (P.2-31)                    | — Audio control (P.4-28 or **)                       |

11. Steering-wheel-mounted controls (right side)
- Bluetooth® Hands-Free Phone System control (P.4-31 or \*\*)
  - Cruise control switches\* (P.5-30)
  - Intelligent Cruise Control (ICC) system switches\* (P.5-31)

\*: if equipped

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

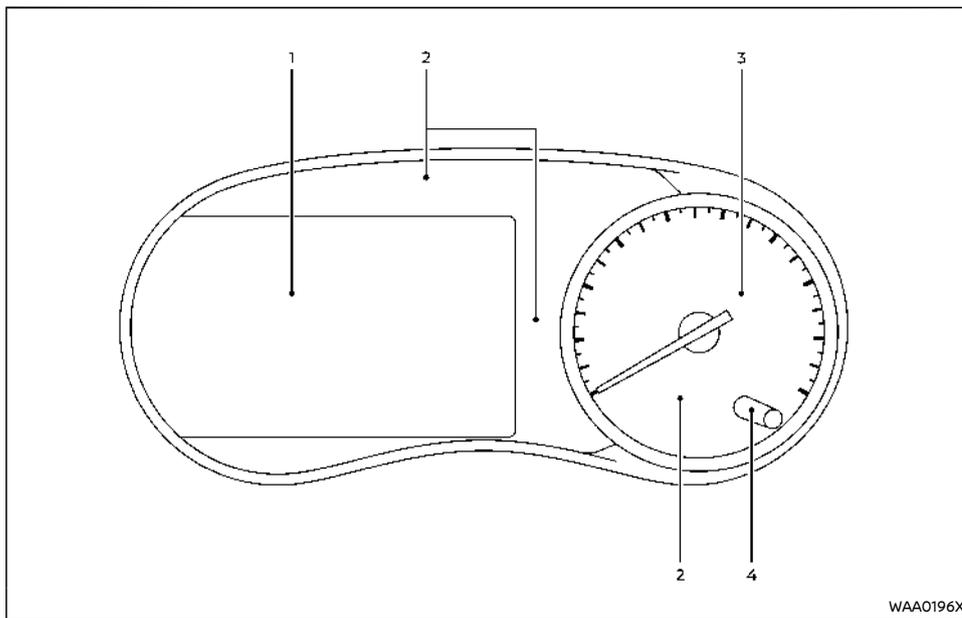
## INSTRUMENT PANEL



- |  |  |
|--|--|
| 1. Side ventilator (P.4-14)                  | 9. Glove box (P.2-36)                      |
| 2. Passenger's front-impact air bag (P.1-20) | 10. Cooler and air conditioner (P.4-15)    |
| 3. Audio system (P.4-17 or **)               | — Defogger switch (P.2-32)                 |
| 4. Hazard indicator flasher switch (P.6-2)   | 11. Drive mode switch (P.e-POWER System-7) |
| 5. Center ventilator (P.4-14)                | 12. EV mode switch                         |
| 6. Meters and gauges (P.2-4)                 | — Charge mode (P.e-POWER System-8)         |
| 7. Steering wheel                            | — EV mode (P.e-POWER System-9)             |
| — Driver's front-impact air bag (P.1-20)     | 13. Power outlet (P.2-35)                  |
| 8. Fuse box cover (P.8-19)                   | 14. Push-button power switch (P.5-5)       |

15. USB (Universal Serial Bus) connection port/Auxiliary input jack (P.4-29 or \*\*)
  16. Steering wheel lock lever (P.3-16)
  17. Driver's knee air bag\* (P.1-20)
  18. Hood release handle (P.3-13)
  19. Fuel-filler lid release handle (P.3-16)
- \*: if equipped  
 \*\*: See the separate NissanConnect Owner's Manual (if equipped).

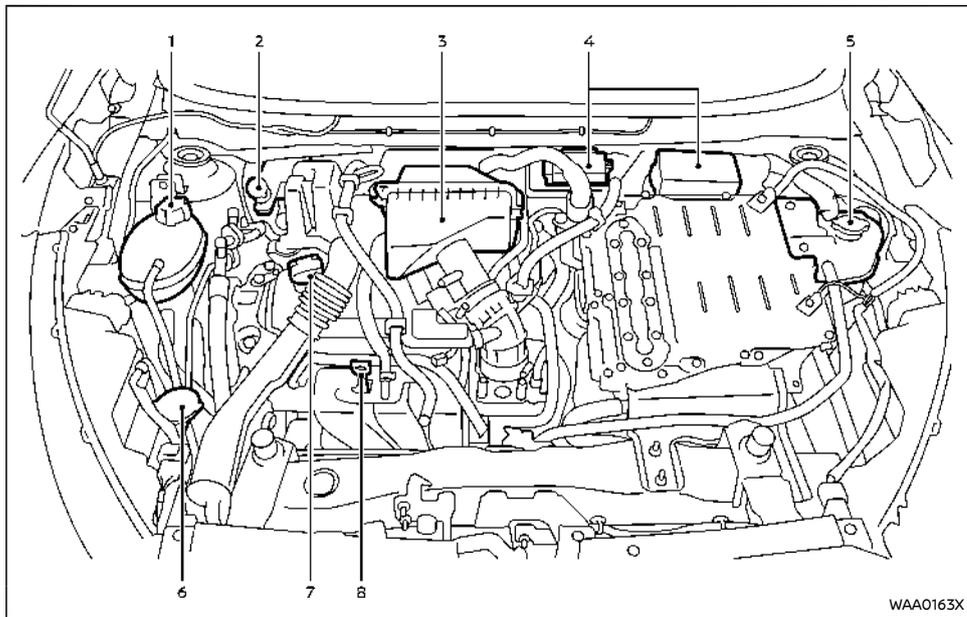
## METERS AND GAUGES



1. Vehicle information display (P.2-14)
  - Power meter (P.2-5)
  - Odometer/twin trip odometer (P.2-4)
  - Fuel gauge/driving range (P.2-5)
  - Li-ion battery available charge gauge (P.2-6)
  - Trip computer (P.2-25)
  - Shift position indicator (P.2-7, P.5-8)
2. Warning and indicator lights (P.2-8)
3. Speedometer (P.2-4)
4. Trip reset switch (P.2-4)/Instrument brightness control knob (P.2-7)

## ENGINE COMPARTMENT

### HR12DE ENGINE MODEL



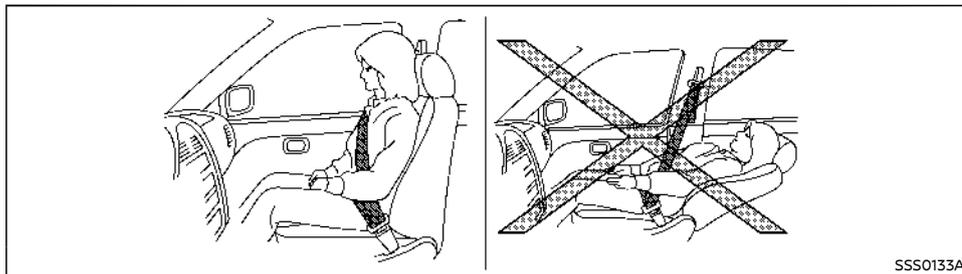
1. Engine coolant reservoir (P.8-6)
2. Brake fluid reservoir (P.8-11)
3. Air cleaner (P.8-12)
4. Fuse/fusible link box (P.8-18)
5. Inverter coolant reservoir (P.8-7)
6. Window washer fluid reservoir (P.8-14)
7. Engine oil filler cap (P.8-8)
8. Engine oil dipstick (P.8-8)

## **MEMO**

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

Seats .....	1-2	Child restraints .....	1-10
Front seats .....	1-2	Precautions on child restraint usage .....	1-10
Rear seats .....	1-3	Universal child restraints for front seat and rear seats .....	1-11
Head restraints .....	1-4	ISOFIX child restraint system .....	1-14
Adjustable head restraint .....	1-4	Child restraint anchorage .....	1-15
Non-adjustable head restraint .....	1-4	Child restraint installation using ISOFIX .....	1-15
Remove .....	1-4	Child restraint installation using three-point type seat belt .....	1-17
Install .....	1-5	Supplemental Restraint System (SRS) .....	1-20
Adjust .....	1-5	Precautions on Supplemental Restraint System (SRS) .....	1-20
Seat belts .....	1-6	Supplemental air bag systems .....	1-24
Precautions on seat belt usage .....	1-6	SRS air bag deployment conditions .....	1-26
Child safety .....	1-7	Pre-tensioner seat belt system (if equipped) .....	1-28
Pregnant women .....	1-8	Repair and replacement procedure .....	1-29
Injured persons .....	1-8		
Center mark on seat belts .....	1-8		
Three-point type seat belts .....	1-8		
Seat belt maintenance .....	1-10		

## SEATS



### **WARNING:**

- Do not drive and/or ride in the vehicle with the seatback reclined. This can be dangerous. The shoulder belt will not be properly against the body. In an accident, you and your passengers could be thrown into the shoulder belt and receive neck or other serious injuries. You and your passengers could also slide under the lap belt and receive serious injuries.
- For the most effective protection while the vehicle is in motion, the seatback should be upright. Always sit well back and upright in the seat and adjust the seat belt properly. (See "Seat belts" (P.1-6).)
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.
- To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assis-

tance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.

### **CAUTION:**

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

## FRONT SEATS

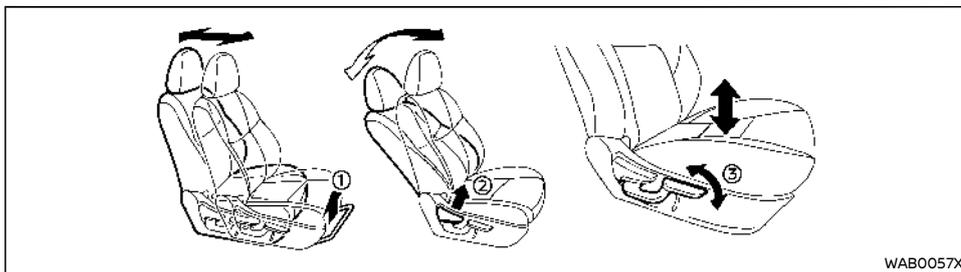
### **WARNING:**

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

## Adjustment

### **WARNING:**

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



#### Forward and backward:

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

#### Reclining:

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

The reclining feature allows the adjustment of the seatback for occupants of different sizes to help obtain the proper seat belt fit. (See "Seat belts" (P.1-6).)

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

#### Seat lifter (if equipped):

Pull up or push down the adjusting lever ③ to adjust the seat height until the desired position is achieved.

#### REAR SEATS

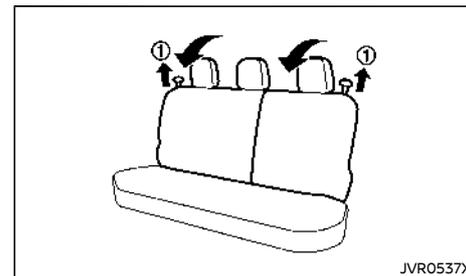
##### Folding



#### WARNING:

- **Never allow anyone to ride in the luggage area or on the rear seats when they are in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.**
- **Do not fold down the rear seats when occupants are in the rear seat area or any luggage is on the rear seats.**
- **Properly secure all luggage to help prevent it from sliding or shifting. Do not place luggage higher than the seatbacks.**
- **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 should be adjusted properly as they may provide significant protection against whiplash injury. Al-**

ways replace and adjust them properly if they have been removed for any reason.



Secure the seat belts on the seat belt hooks on the side wall. (See "Seat belt hooks" (P.1-9).)

To fold the seatback, pull the knob ①.

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



#### CAUTION:

- **When loading the luggage in the luggage area, be careful not to scratch or damage the seat belt.**
- **When operating the seatback, be careful not to scratch or damage the seat belt.**

## HEAD RESTRAINTS



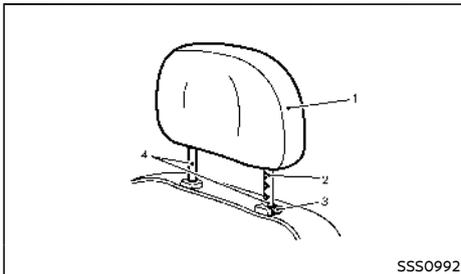
### WARNING:

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

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

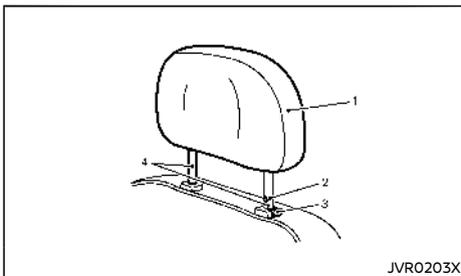
seating position.

### ADJUSTABLE HEAD RESTRAINT



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

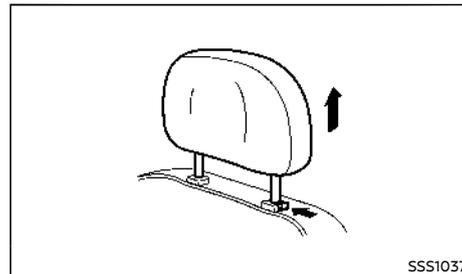
### NON-ADJUSTABLE HEAD RESTRAINT



1. Removable head restraint
2. Single notch

3. Lock knob
4. Stalks

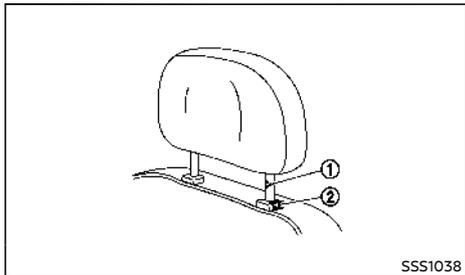
### REMOVE



Use the following procedure to remove the head restraint.

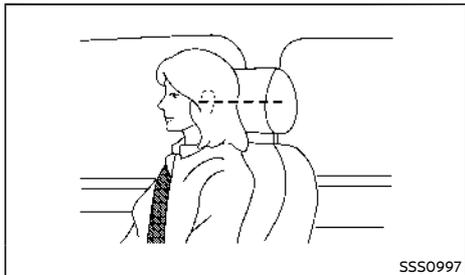
1. Pull the head restraint up to the highest position.
2. Push and hold the lock knob.
3. Remove the head restraint from the seat.
4. Store the head restraint properly in a secure place so it is not loose in the vehicle.
5. Reinstall and properly adjust the head restraint before an occupant uses the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

## INSTALL



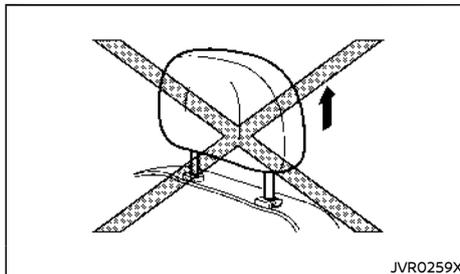
1. Align the head restraint stalks with the holes in the seat. Make sure that the head restraint is facing the correct direction. The stalk with the adjustment notch ① must be installed in the hole with the lock knob ②.
2. Push and hold the lock knob and push the head restraint down.
3. Properly adjust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

## ADJUST



### For adjustable head restraint

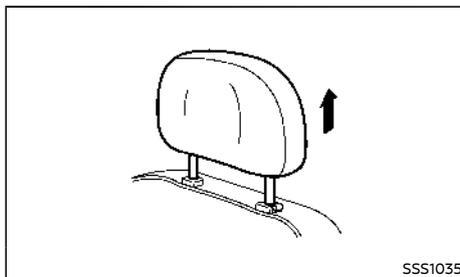
Adjust the head restraint so the center is level with the center of your ears. If your ear position is still higher than the recommended alignment, place the head restraint at the highest position.



### For non-adjustable head restraint

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

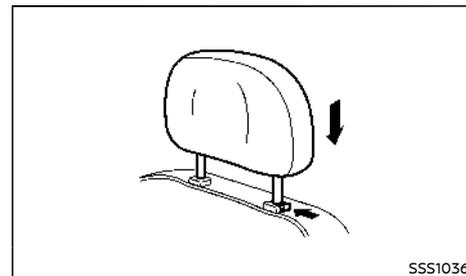
### Raise



To raise the head restraint, pull it up.

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

### Lower



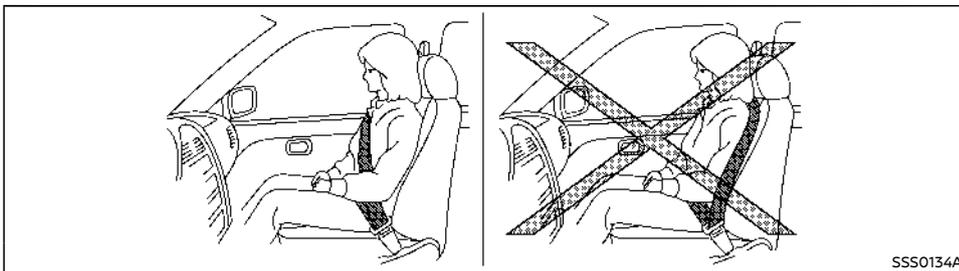
To lower, push and hold the lock knob and push the head restraint down.

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

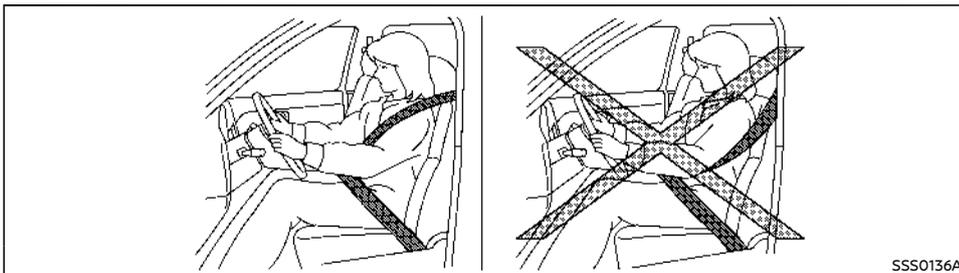
## SEAT BELTS

### PRECAUTIONS ON SEAT BELT USAGE

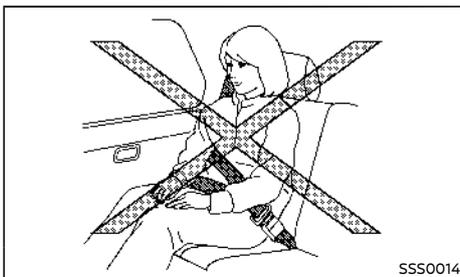
If you are wearing the seat belt properly adjusted and sitting upright and well back in the seat, chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. NISSAN strongly encourages you and all of your passengers to buckle up every time you drive, even if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



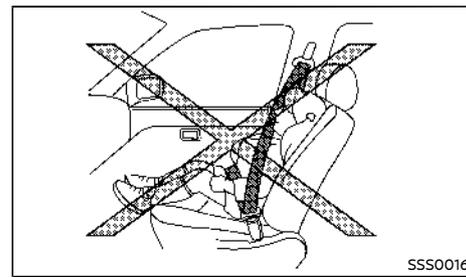
SSS0134A



SSS0136A



SSS0014



SSS0016



#### WARNING:

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

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

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

should be done by a NISSAN dealer.

#### CHILD SAFETY

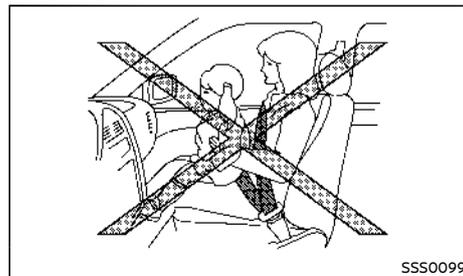


#### WARNING:

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

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

#### Infants and small children



SSS0099

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

## Large children



### WARNING:

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

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

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

## PREGNANT WOMEN

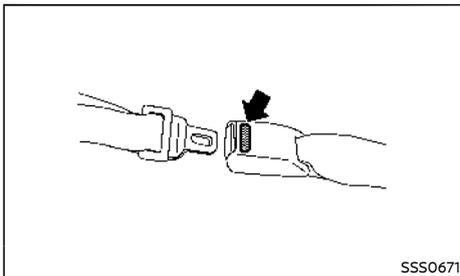
NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact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

## INJURED PERSONS

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

## CENTER MARK ON SEAT BELTS

### Selecting correct set of seat belts



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

## THREE-POINT TYPE SEAT BELTS

### Fastening seat belts



### WARNING:

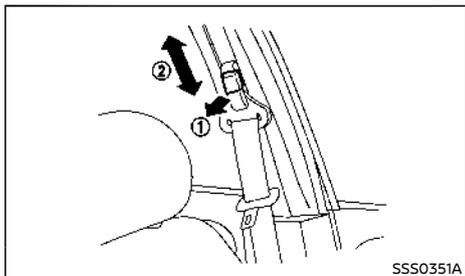
**The seatback should not be in a reclined position any more than needed for comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat.**

1. Adjust the seat. (See "Seats" (P.1-2).)
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.
  - **The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the 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 is snug across your chest.

### Shoulder belt height adjustment (front seats)



### **⚠ WARNING:**

- **The shoulder belt anchor height should be adjusted to the position best for you. Failure to do so may reduce the effec-**

**tiveness of the entire restraint system and increase the chance or severity of injury in an accident.**

- **The shoulder belt should rest on the middle of the shoulder. It must not rest against the neck.**
- **Be sure that the seat belt is not twisted in any way.**
- **Be sure that the shoulder belt anchor is secured by trying to move the shoulder belt anchor up and down after adjustment.**

The shoulder belt anchor height should be adjusted to the position best for you.

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

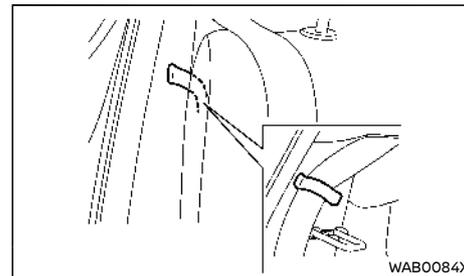
To adjust, pull the release button ① and move the shoulder belt anchor to the proper position ②, so that the belt passes over the center of the shoulder.

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

### Unfastening seat belts

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

### Seat belt hooks



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

### Checking seat belt operation

Seat belt retractors are designed to lock seat belt movement:

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

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

## CHILD RESTRAINTS

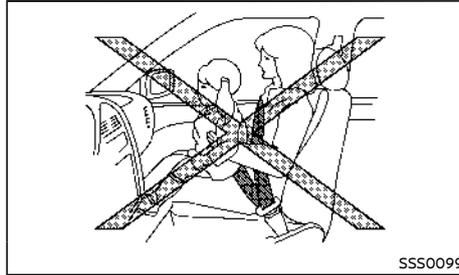
### SEAT BELT MAINTENANCE

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

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

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

### PRECAUTIONS ON CHILD RESTRAINT USAGE



#### WARNING:

- Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint can result in serious injury or death.
- Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.
- NISSAN recommends that the child restraints be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.
- Improper use or improper installation of a child restraint can increase the risk or severity of injury for both the child and other occupants of the vehicle and can

lead to serious injury or death in an accident.

- Follow all of the child restraint manufacturer's instructions for installation and use. When purchasing a child restraint, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraint in your vehicle.
- The direction of the child restraint, either front-facing or rear-facing, depends on the type of the child restraint and the size of the child. Refer to the child restraint manufacturer's instructions for details.
- Adjustable seatbacks should be positioned to ensure full contact between child restraint and seatback.
- After attaching a child restraint, test it before you place the child in it. Push it from side to side and tug it forward to make sure that it is held securely in place. The child restraint should not move more than 25 mm (1 in). If the restraint is not secure, tighten the belt as necessary, or install the restraint in another seat and test it again.
- When the child restraint is not in use, keep it secured with the ISOFIX child restraint system or a seat belt to prevent it from being thrown around in case of a sudden stop or accident.
- Never install a rear-facing child restraint on the front passenger's seat when the front passenger's air bag is available. Supplemental front-impact air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front-impact air bags in an accident and could seriously injure or kill your child.

- If the seat belt in the position where a child restraint is installed requires a locking device and if it is not used, injuries could result from a child restraint tipping over during normal vehicle braking or cornering.



**CAUTION:**

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

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

**UNIVERSAL CHILD RESTRAINTS FOR FRONT SEAT AND REAR SEATS**

**NOTE:**

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

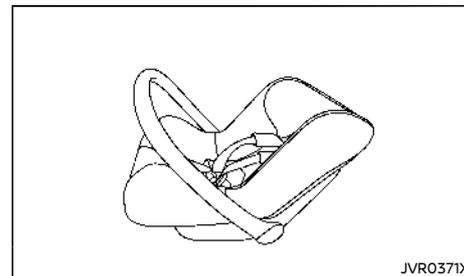
When selecting any child restraint, keep the following points in mind:

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

**Mass group of child seat**

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

**Kind of child seats (example):**



JVR0371X

**Child safety seat categories 0 and 0+**



JVR0372X

**Child safety seat categories 0+ and I**



JVR0373X

**Child safety seat categories II and III**

## Approved child restraint positions (without ISOFIX)

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

Mass group		Seating position		
		Front passenger seat	Rear outboard seat	Rear center seat
0	<10 kg	X	U*2	X
0 +	<13 kg	X	U/L*2	X
I	9 - 18 kg	L*1	U/L*2	X
II	15 - 25 kg	L*3	UF/L*2*3	X
III	22 - 36 kg	L*3	UF/L*2*3	X

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

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

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

X: Not suitable for child restraint system

\*1: If you install a child seat, set the seat back position to the first locked position.

\*2: If you install the child seat, set the slide position of the front seat to the 10-notch forward position from the rearmost.

\*3: If you install the child seat, remove the head restraint.

**List of recommended child restraints:**

Mass group		Facing position	Name of CRS	Interface
0	<10 kg	—	—	—
0 +	<13 kg	Rearward	Maxi Cosi Cabriofix	B_ _ _ _
I	9 - 18 kg	Forward	Combi Malgott	B_ _ _ _
II	15 - 25 kg	Forward	Combi Buon junior Air	B_ _ _ _
III	22 - 36 kg	Forward		B_ _ _ _

**Approved child restraint positions (with ISOFIX)**

This is a regulatory table, indicating ISOFIX and semi-universally ISOFIX approved child seats for various approved seating positions.

Mass group			Seating position			
			Front passenger seat	Rear outboard seat	Rear center seat	
Carrycot		F	ISO/L1	X	X	X
		G	ISO/L2	X	X	X
0	<10 kg	E	ISO/R1	X	X	X
0+	<13 kg	E	ISO/R1	X	IL*1*2	X
		D	ISO/R2	X	IL*1*2	X
		C	ISO/R3	X	IL*1*2	X
I	9 - 18 kg	D	ISO/R2	X	IL*1*2	X
		C	ISO/R3	X	IL*1*2	X
		B	ISO/F2	X	IUF/IL	X
		B1	ISO/F2X	X	IUF/IL	X
		A	ISO/F3	X	IUF/IL	X
II	15 - 25 kg	-	-	X	IL*3	X
III	22 - 36 kg	-	-	X	IL*3	X

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

group

- IL: Suitable particular ISOFIX category child restraint system (CRS) given in the below list or vehicle list of child seat manufacturer
- X: Not suitable for child restraint system
- \*1: If you install the child seat, set the seat back position of the front seat to the 3-notch rearward position from the first locked position.
- \*2: If you install the child seat, set the slide position of the front seat to the 12-notch forward position from the rearmost.
- \*3: If you install the child seat, remove the head restraint.

**List of recommended ISOFIX child restraints:**

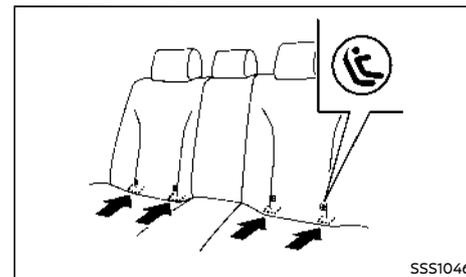
Mass group		Facing position	Name of CRS	Interface
0	<10 kg	—	—	—
0 +	<13 kg	Rearward	Britax Baby safe Plus ISOfix Base	_IL_
			Maxi Cosi Milofix	_I_S
I	9 - 18 kg	Forward	Maxi Cosi Milofix	_I_S
			Roemer Duo plus	_I_S
II	15 - 25 kg	Forward	Britax Kid Fix XP	BI_ _
III	22 - 36 kg			
Q1.5		Rearward	Britax Baby Safe Plus SHR II	_IL_
Q3		Rearward	Maxi Cosi 2way Pearl & 2wayFix	_IL_
		Forward		

**ISOFIX CHILD RESTRAINT SYSTEM**

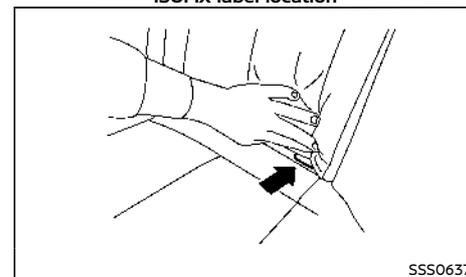
Your vehicle is equipped with special anchor points that are used with ISOFIX child restraint systems.

**ISOFIX lower anchor point locations**

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



**ISOFIX label location**



**ISOFIX lower anchor location**

The ISOFIX anchors are located at the rear of the seat cushion near the seatback. A label is

attached to the seatback to help you locate the ISOFIX anchors.

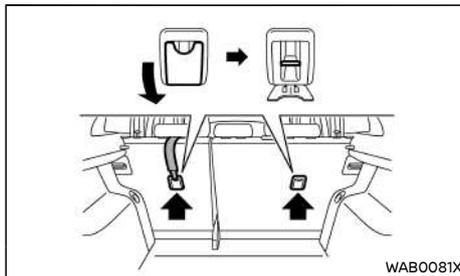
## CHILD RESTRAINT ANCHORAGE

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

### **WARNING:**

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

## Anchorage location



The anchor points are located on the back side of the seatbacks.

## CHILD RESTRAINT INSTALLATION USING ISOFIX

### **WARNING:**

- Attach ISOFIX child restraints only at the specified locations. For the ISOFIX lower anchor locations, see "ISOFIX child restraint system" (P.1-14). If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.
- Do not install child restraints that require the use of a top tether strap to seating positions that do not have a top tether anchor.
- Do not secure a child restraint in the center rear seating position using the ISOFIX lower anchors. The child restraint will not be secured properly.
- Inspect the lower anchors by inserting your fingers into the lower anchor area and feeling to make sure there are no

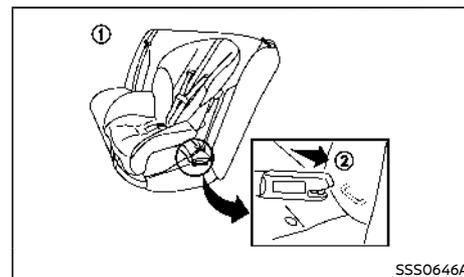
obstructions over the ISOFIX anchors, such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the ISOFIX anchors are obstructed.

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

## Installation on rear outboard seats

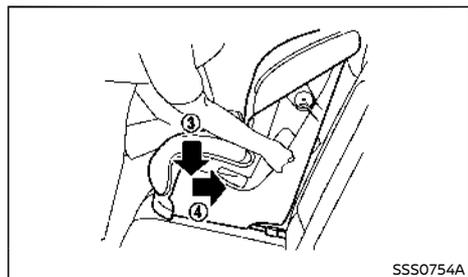
### Front-facing:

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



Front-facing: Steps 1 and 2

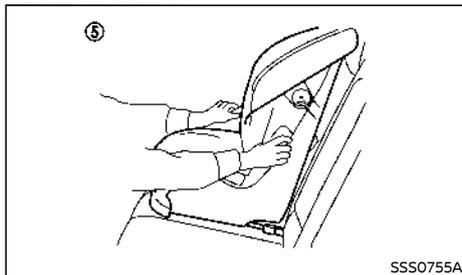
1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.
3. The back of the child restraint should be secured against the vehicle seatback. If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. (See "Head restraints" (P.1-4).) If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed. If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



**Front-facing: Step 4**

4. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback.
5. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See "Child restraint anchorage" (P.1-15).)

6. If the child restraint is equipped with other anti-rotation devices such as support legs, use them instead of the top tether strap following the child restraint manufacturer's instructions.

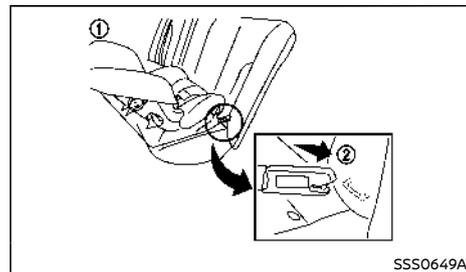


**Front-facing: Step 7**

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

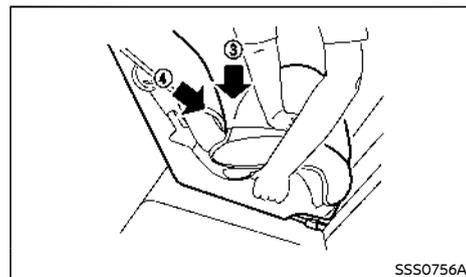
**Rear-facing:**

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:



**Rear-facing: Steps 1 and 2**

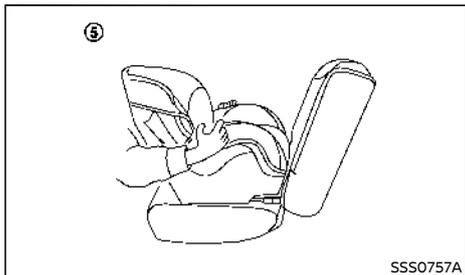
1. Position the child restraint on the seat ①.
2. Secure the child restraint anchor attachments to the ISOFIX lower anchors ②.



**Rear-facing: Step 3**

3. Shorten the rigid attachment to have the child restraint firmly tightened; press downward ③ and rearward ④ firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback.
4. If the child restraint is equipped with a top tether strap, route the top tether strap and secure the tether strap to the tether anchor point. (See "Child restraint anchorage" (P.1-15).)

- If the child restraint is equipped with other anti-rotation devices such as support legs, use them instead of the top tether strap following the child restraint manufacturer's instructions.



**Rear-facing: Step 6**

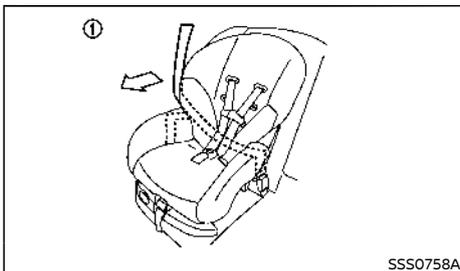
- Test the child restraint before you place the child in it ⑤. Push the child restraint from side to side and tug it forward to make sure that it is held securely in place.
- Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps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

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

### Installation on rear seats

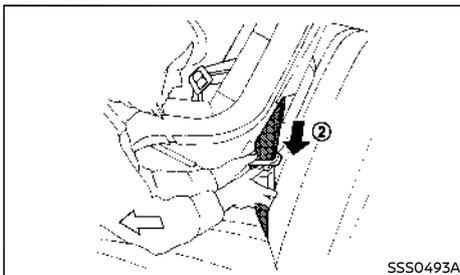
#### Front-facing:

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



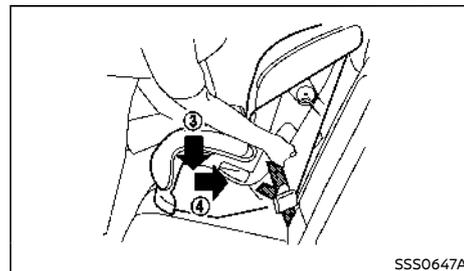
**Front-facing: Step 1**

- Position the child restraint on the seat ①. If any contact occurs between the child restraint and the front seat, slide the front seat forward until contact no longer occurs.



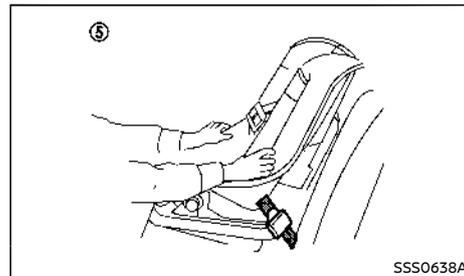
**Front-facing: Step 2**

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



**Front-facing: Step 4**

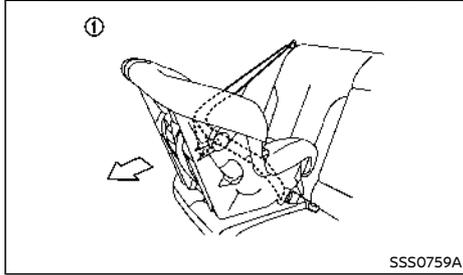
- Remove any additional slack from the seat belt; press downward ③ and rearward ④ firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



**Front-facing: Step 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.
- Check to make sure that the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 3 through 5.

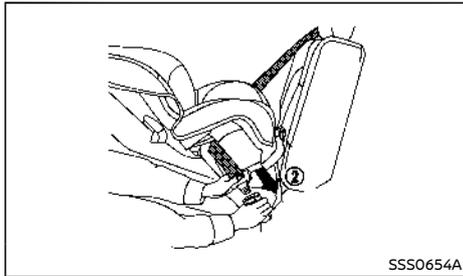
### Rear-facing:



#### Rear-facing: Step 1

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

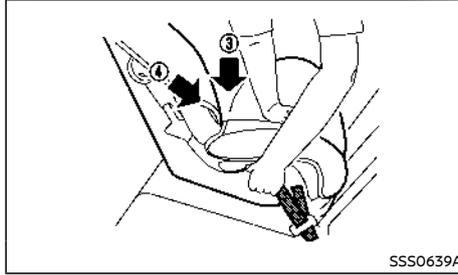
1. Position the child restraint on the seat ①.



#### Rear-facing: Step 2

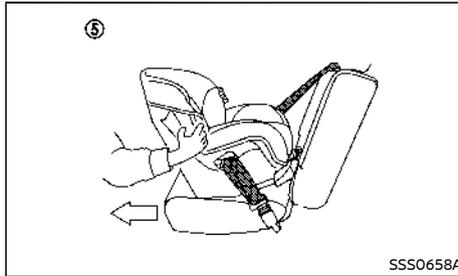
2. Route the seat belt tongue through the child restraint and insert it into the buckle ② until you hear and feel the latch engage.
3. To prevent slack in the seat belt webbing, it is necessary to secure the seat belt in place with locking devices attached to the child

restraint.



#### Rear-facing: Step 4

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

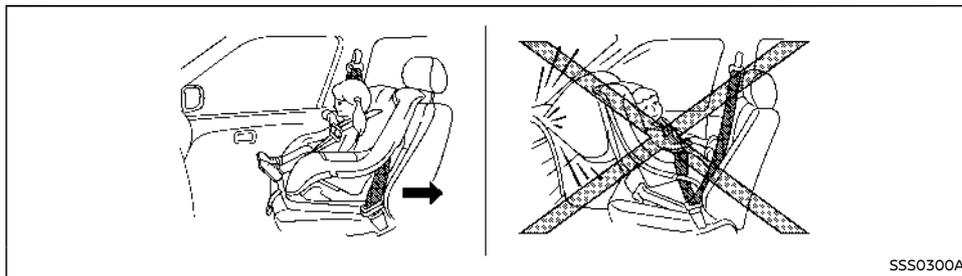


#### Rear-facing: Step 5

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

child restraint is loose, repeat steps 3 through 5.

## Installation on front passenger's seat



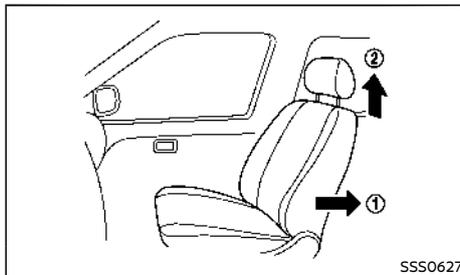
### **WARNING:**

- Never install a rear-facing child restraint on the front passenger's seat when the front passenger's air bag is available. Supplemental front-impact air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front-impact air bags in an accident and could seriously injure or kill your child.
- Never install a child restraint with a top tether strap on the front seat.
- NISSAN recommends that a child restraint be installed on the rear seat. However, if you must install a child restraint on the front passenger's seat, move the passenger's seat to the rearmost position.
- Child restraints for infants must be used in the rear-facing direction and therefore must not be used on the front passenger's seat when the front passenger's air bag is available.

- Failure to use the seat belts will result in the child restraint not being properly secured. It could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.

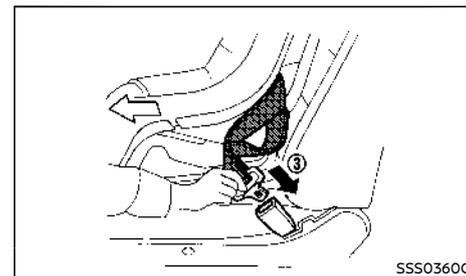
### Front-facing:

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



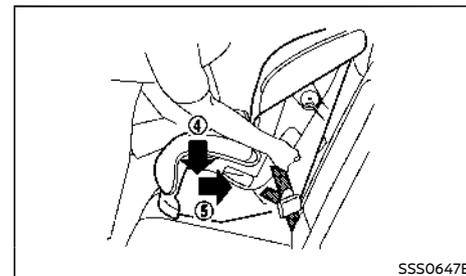
Front-facing: Steps 1 and 2

1. Move the seat to the rearmost position ①.
2. Remove the head restraint ②.
3. Position the child restraint in the seat.



Front-facing: Step 4

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



Front-facing: Step 6

6. Remove any additional slack from the seat belt; press downward ④ and rearward ⑤ firmly in the center of the child restraint

## SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

with your knee to compress the vehicle seat cushion and seatback while pulling up on the seat belt.



### Front-facing: Step 7

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

### PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM (SRS)

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

#### Supplemental front-impact air bag system

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

#### Supplemental side-impact air bag system (if equipped)

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

#### Supplemental curtain side-impact air bag system (if equipped)

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

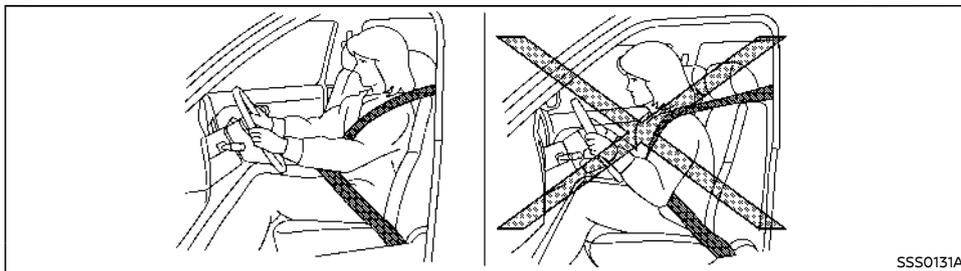
#### Supplemental driver's knee air bag (if equipped)

This system can help cushion the impact force to the knee area of the driver in certain frontal collisions. The supplemental driver's knee air bag is designed to inflate on the front where the vehicle is impacted.

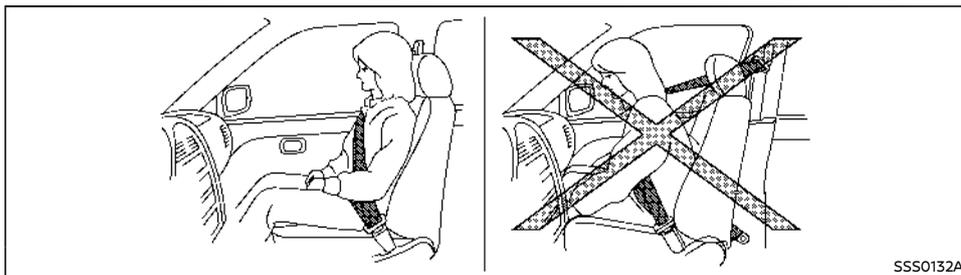
The SRS is designed to **supplement** the accident protection provided by the driver's and passenger's seat belts and **is not** designed to **substitute** for them. The SRS can help save lives and reduce serious injuries. However, inflating air bags may cause abrasions or other injuries. Air bags, other than the driver's knee air bag, 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 and instrument panel. (See "Seat belts" (P.1-6).) 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 "SRS air bag warning light" (P.1-24).)**

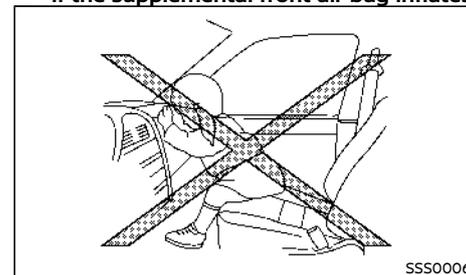


SSS0131A

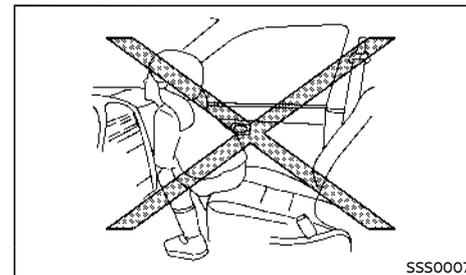


SSS0132A

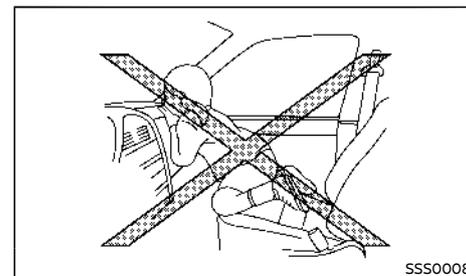
if the supplemental front air bag inflates.



SSS0006



SSS0007



SSS0008

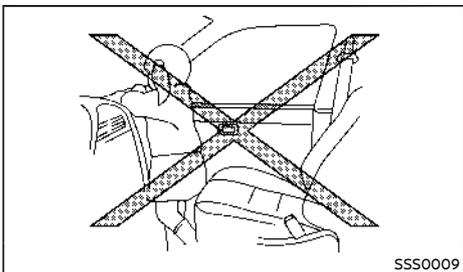


**WARNING:**

- 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 various kinds of accidents.
- The seat belts and the supplemental front-impact air bags are most effective when you are sitting well back and upright in the seat. The front-impact air bags inflate with great force. If you and your passengers are unrestrained, lean-

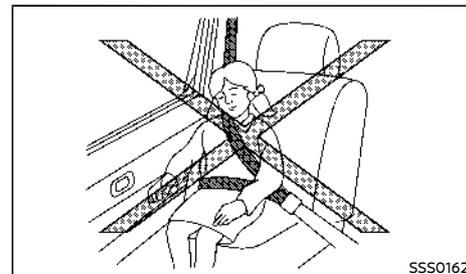
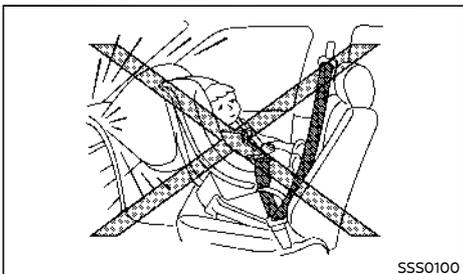
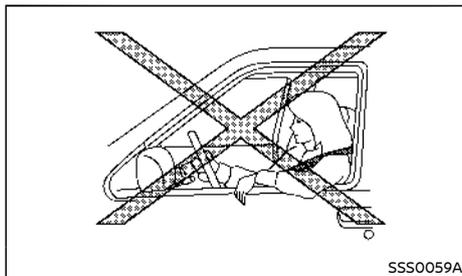
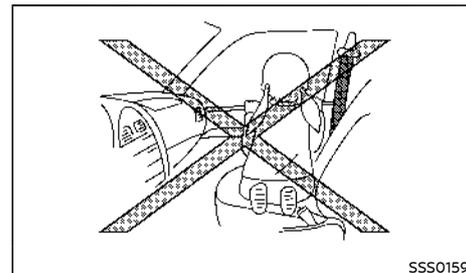
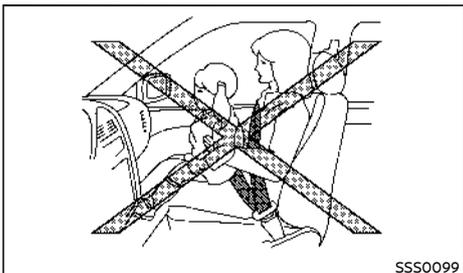
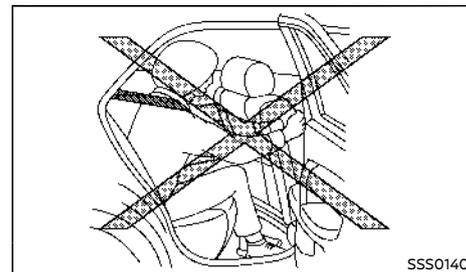
ing forward, sitting sideways, or out of position in any way, you and your passengers are at greater risk of injury or death in an accident. You and your passengers may also receive serious or fatal injuries from the supplemental front-impact air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.

- Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk of injury



**⚠ WARNING:**

- Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.
- Children may be severely injured or killed when the air bags inflate if they are not properly restrained.
- Never install a rear-facing child restraint system on the front seat. An inflating supplemental front-impact air bag could seriously injure or kill your child. (See "Child restraints" (P.1-10).)





## WARNING:

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

- Do not use seat covers on the front seatbacks. They may interfere with the supplemental side-impact air bag inflations.

### Pre-tensioner seat belt system

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

See "Pre-tensioner seat belt system" (P.1-28).

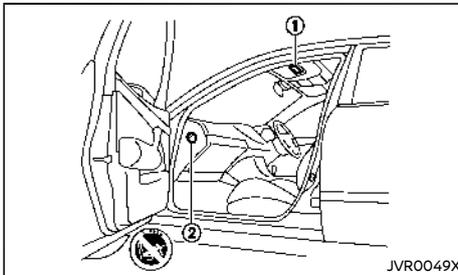
#### Type A:

Working with the seat belt retractors (except rear center seat) and lap outer (front seat) anchors, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, helping to restrain front and rear outboard seat occupants.

#### Type B:

Working with the seat belt retractors (front seat) and lap outer (driver's side) anchors, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

### Air bag warning labels



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

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

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

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



#### ① Air bag warning label

The label ① warns:

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

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

When installing a child restraint system in your vehicle, always follow the child restraint system manufacturer's instructions for installation. For additional information, see "Child restraints" (P.1-10).

## SRS air bag warning light



The Supplemental Restraint System (SRS) air bag warning light, displaying  in the instrument panel, monitors the circuits for the air bag systems, pre-tensioner seat belt system and all related wiring.

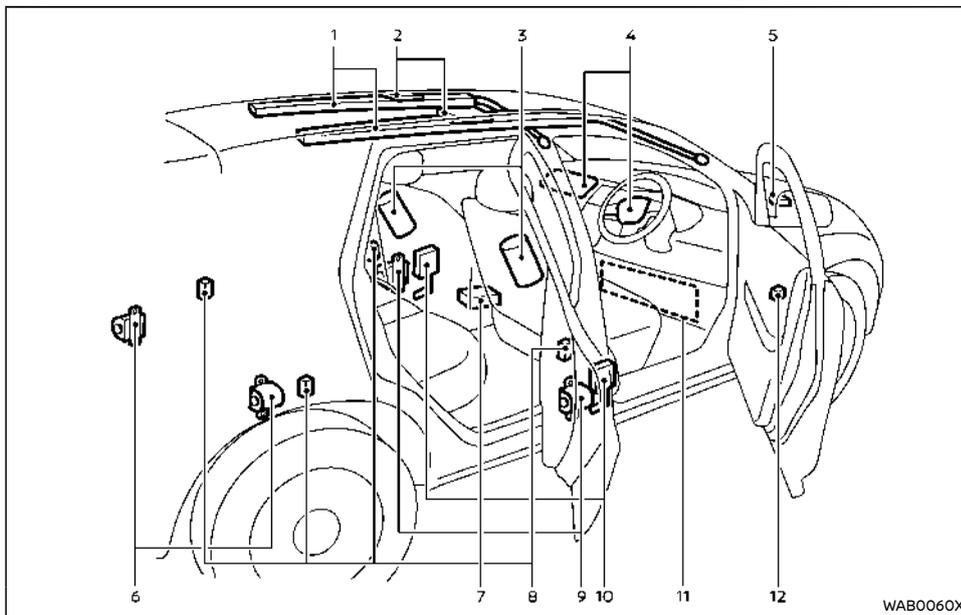
When the power switch is in the "ON" position, the SRS air bag warning light illuminates for about 7 seconds and then turns off. This indicates that the SRS air bag systems are operational.

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

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

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

## SUPPLEMENTAL AIR BAG SYSTEMS



1. Supplemental curtain side-impact air bag modules (if equipped)
2. Supplemental curtain side-impact air bag inflators (if equipped)
3. Supplemental side-impact air bag modules (if equipped)
4. Supplemental front air bag modules
5. Crash zone sensor
6. Seat belt pre-tensioner retractors (rear outboard) (if equipped)
7. Air bag Control Unit (ACU)
8. Satellite sensors (if equipped)
9. Seat belt pre-tensioner retractors (front)
10. Lap outer pre-tensioner(s) (if equipped)
11. Supplemental driver's knee air bag module (if equipped)

12. Front door pressure sensors (driver's side shown; front passenger side similar) (if equipped)



**WARNING:**

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

- **Work on and around the supplemental air bag systems should be done by a NISSAN dealer. The SRS wiring should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the supplemental air bag systems.**
- **The SRS wiring harness connectors are yellow and/or orange for easy identification.**

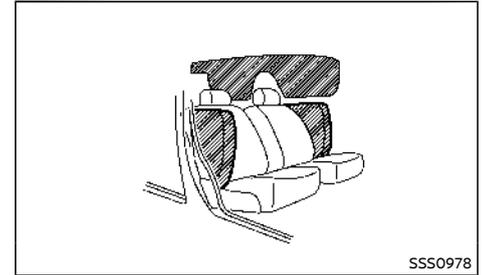
When the air bags inflate, a fairly loud noise may be heard, followed by the release of smoke. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

#### Supplemental front-impact air bag system

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

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

#### Supplemental side-impact air bag system (if equipped)



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

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

#### Supplemental curtain side-impact air bag system (if equipped)

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

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

pact air bag system operation.

### Supplemental driver's knee air bag system (if equipped)

The supplemental driver's knee air bag is located under the steering column.

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

### SRS AIR BAG DEPLOYMENT CONDITIONS

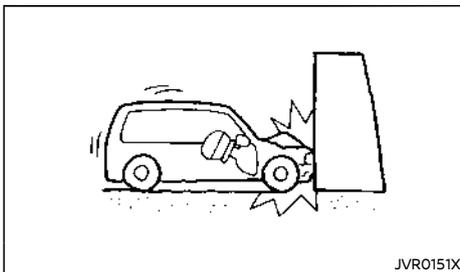
The SRS air bags activate in the event of a front or side impact in which the vehicle occupants may be severely injured even if they are wearing the seat belts properly.

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

### When the SRS air bag will deploy

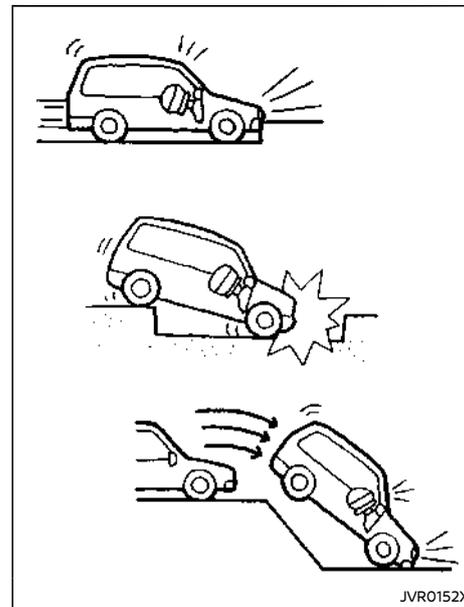
#### Supplemental front-impact air bags and driver's knee air bag (if equipped):

The supplemental front-impact air bag and driver's knee air bag systems are designed to inflate in higher severity frontal collisions. Some examples are shown in the following illustrations.



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

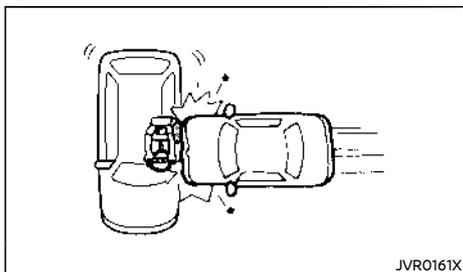
The supplemental front-impact air bag and driver's knee air bag systems may also deploy when the vehicle receives severe damage to the undercarriage.



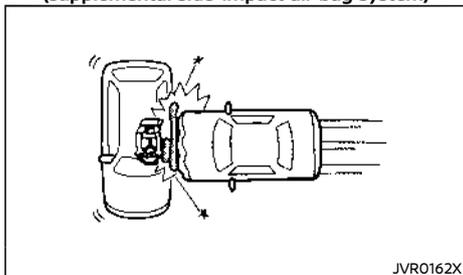
- Hitting a curb, pavement edge or hard surface at high speed
- Falling into a deep hole or ditch
- Landing hard on the ground after jumping

#### Supplemental side-impact and curtain side-impact air bags (if equipped):

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



(supplemental side-impact air bag system)



(supplemental curtain side-impact air bag system)

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

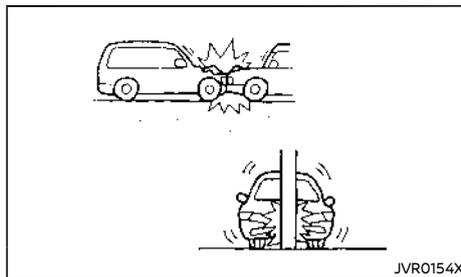
### When the SRS air bag is unlikely to deploy

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

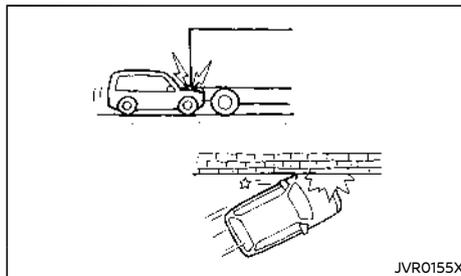
For example, if the vehicle strikes an object, such as a parked vehicle or sign pole, which can move or deform on impact, the SRS air bags are

unlikely to deploy.

### Supplemental front-impact air bags and driver's knee air bag (if equipped):

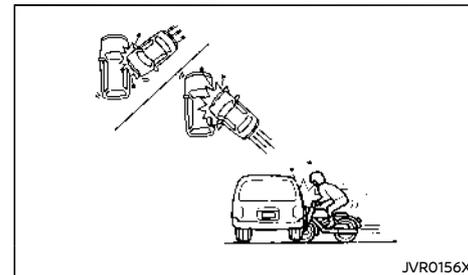


- Striking a vehicle of the same class that is parked
- Crashing into a solid utility pole

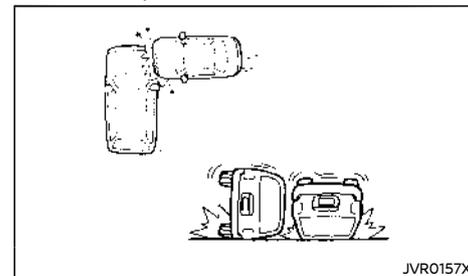


- Running under the tail gate of a truck
- A frontal offset impact to the guard rails

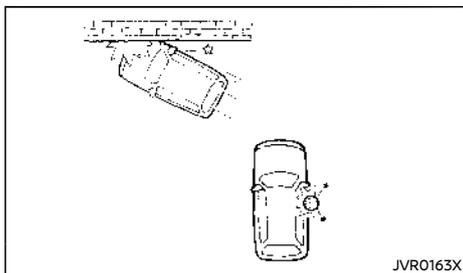
### Supplemental side-impact and curtain side-impact air bags (if equipped):



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



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



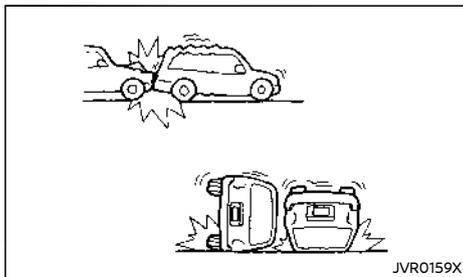
- A frontal offset impact to the guard rails
- A collision with a pole

When the SRS air bag will not deploy (if equipped)

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

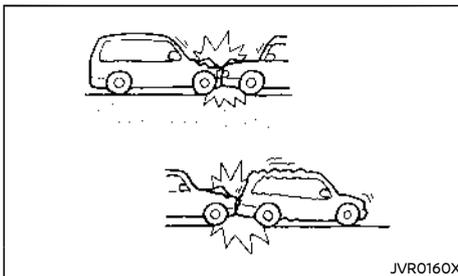
Other examples where the SRS air bag will not deploy are shown in the following illustrations.

**Supplemental front-impact air bags and driver's knee air bag (if equipped):**



- A collision from the side or rear
- Vehicle rollover

**Supplemental side-impact and curtain side-impact air bags (if equipped):**



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

**PRE-TENSIONER SEAT BELT SYSTEM (if equipped)**

**⚠ WARNING:**

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

**pre-tensioner seat belt system.**

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

The pre-tensioner 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 and rear outboard (if equipped) seat occupants.

The pre-tensioner is encased with the front and rear outboard (if equipped) seat belt's retractor and anchor. These seat belts are used the same as conventional seat belts.

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

## REPAIR AND REPLACEMENT PROCEDURE



### **WARNING:**

- **Once the air bags have been inflated, the air bag modules will not function and must be replaced. The air bag modules must be replaced by a NISSAN dealer. The inflated air bag modules cannot be repaired.**
- **The air bag systems should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.**
- **If you need to dispose of the SRS or scrap the vehicle, contact a NISSAN dealer. Correct disposal procedures are set forth in the appropriate NISSAN Service Manual. Incorrect disposal procedures could cause personal injury.**

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

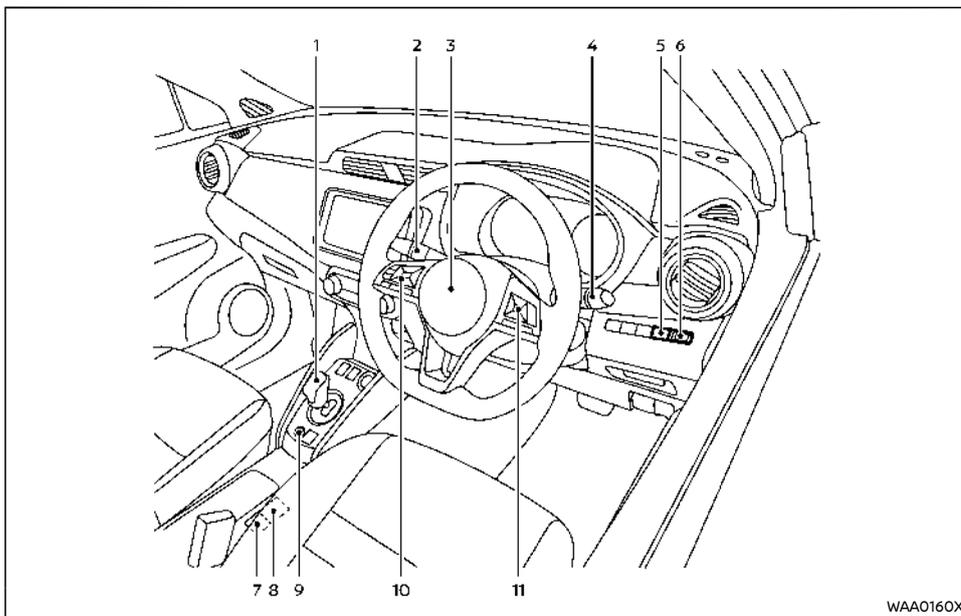
When maintenance work is required on the vehicle, information about the air bags, pre-tensioner seat belts and related parts should be pointed out to the person performing the maintenance. The power switch should always be in the "OFF" position when working under the hood or inside the vehicle.

**MEMO**

# 2 Instruments and controls

Cockpit .....	2-2	Battery saver system .....	2-30
Instrument panel .....	2-3	Headlight aiming control .....	2-30
Meters and gauges .....	2-4	Turn signal switch .....	2-30
Speedometer and odometer .....	2-4	Fog light switch (if equipped) .....	2-31
Power meter .....	2-5	Front fog lights .....	2-31
Fuel gauge/Driving range .....	2-5	Wiper and washer switch .....	2-31
Li-ion battery available charge gauge .....	2-6	Windshield wiper and washer switch .....	2-31
ECO Drive Report (if equipped) .....	2-6	Rear window wiper and washer switch .....	2-32
Instrument brightness control .....	2-7	Defogger switch .....	2-32
Shift position indicator .....	2-7	Horn .....	2-33
Drive mode indicator .....	2-7	Windows .....	2-33
Charge mode indicator .....	2-7	Power windows .....	2-33
EV mode indicator .....	2-7	Power outlet .....	2-35
Warning lights, indicator lights and audible reminders .....	2-8	USB (Universal Serial Bus) charging connector .....	2-35
Checking lights .....	2-9	Storage .....	2-36
Warning lights .....	2-9	Glove box .....	2-36
Indicator lights .....	2-11	Console box .....	2-36
Audible reminders .....	2-13	Card holder .....	2-36
Vehicle information display .....	2-14	Cup holders .....	2-36
How to use the vehicle information display .....	2-14	Soft bottle holder .....	2-37
Startup display .....	2-14	Cargo cover (if equipped) .....	2-37
Settings .....	2-14	Luggage hooks .....	2-37
Vehicle information display warnings and indicators .....	2-19	Roof rack .....	2-37
Trip computer .....	2-25	Sun visors .....	2-38
Clock and outside air temperature .....	2-28	Interior lights .....	2-38
Headlight and turn signal switch .....	2-29	Map lights .....	2-38
Headlight switch .....	2-29	Room light .....	2-39
		Vanity mirror light (if equipped) .....	2-39
		Luggage room light .....	2-39

## COCKPIT

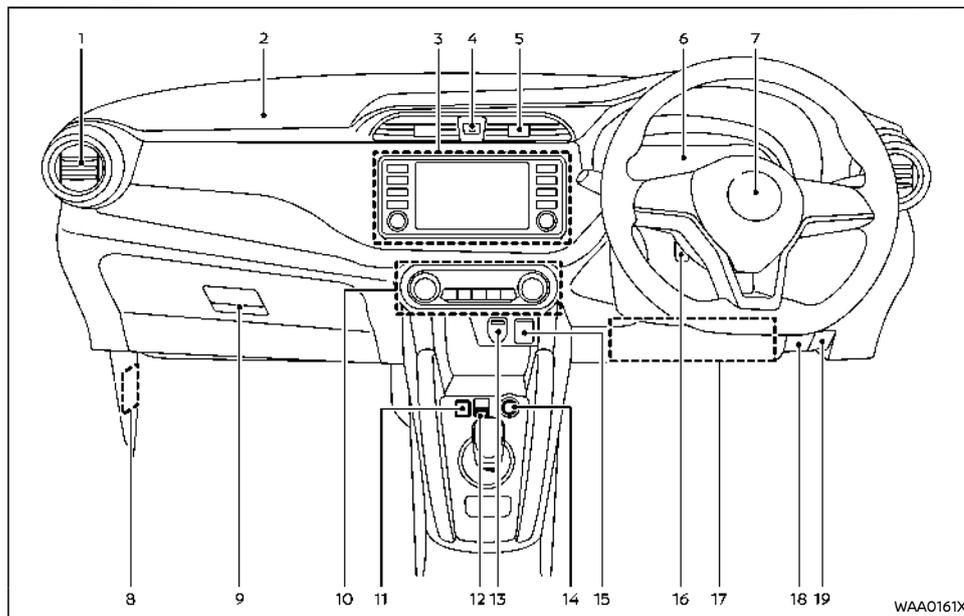


- |   |   |
|---|---|
| 1. Shift lever                                  | 5. Vehicle Dynamic Control (VDC) OFF switch     |
| 2. Wiper and washer switch                      | 6. Headlight aiming control switch              |
| 3. Steering wheel                               | 7. Automatic brake hold switch                  |
| – Electric power steering                       | 8. Electronic parking brake switch              |
| – Horn  | 9. P position switch                            |
| 4. Headlight, fog light* and turn signal switch | 10. Steering-wheel-mounted controls (left side) |
| – Headlight and turn signal switch              | – Vehicle information display control           |
| – Fog light switch*                             | – Audio control                                 |

11. Steering-wheel-mounted controls (right side)
- Bluetooth® Hands-Free Phone System control
  - Cruise control switches\*
  - Intelligent Cruise Control (ICC) system switches\*

\*: if equipped

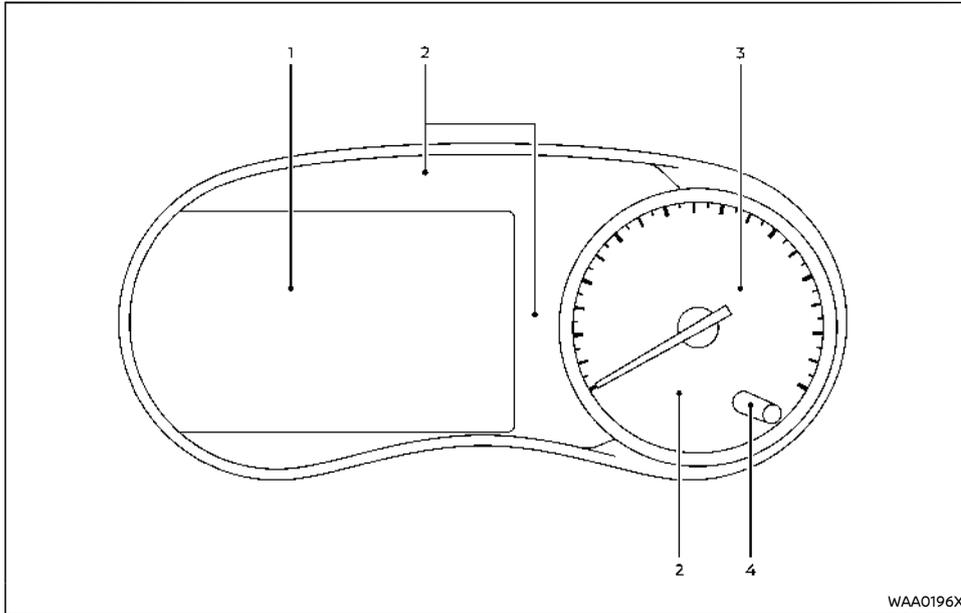
## INSTRUMENT PANEL



- |                                     |                                |
|-------------------------------------|--------------------------------|
| 1. Side ventilator                  | 9. Glove box                   |
| 2. Passenger's front-impact air bag | 10. Cooler and air conditioner |
| 3. Audio system                     | — Defogger switch              |
| 4. Hazard indicator flasher switch  | 11. Drive mode switch          |
| 5. Center ventilator                | 12. EV mode switch             |
| 6. Meters and gauges                | — Charge mode                  |
| 7. Steering wheel                   | — EV mode                      |
| — Driver's front-impact air bag     | 13. Power outlet               |
| 8. Fuse box cover                   | 14. Push-button power switch   |

15. USB (Universal Serial Bus) connection port/Auxiliary input jack
16. Steering wheel lock lever
17. Driver's knee air bag\*
18. Hood release handle
19. Fuel-filler lid release handle
- \*: if equipped

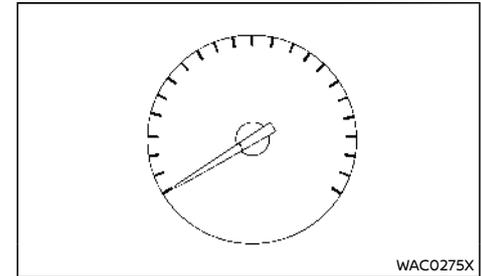
## METERS AND GAUGES



1. Vehicle information display
  - Power meter
  - Odometer/twin trip odometer
  - Fuel gauge/driving range
  - Li-ion battery available charge gauge
  - Trip computer
  - Shift position indicator
2. Warning and indicator lights
3. Speedometer
4. Trip reset switch/Instrument brightness control knob

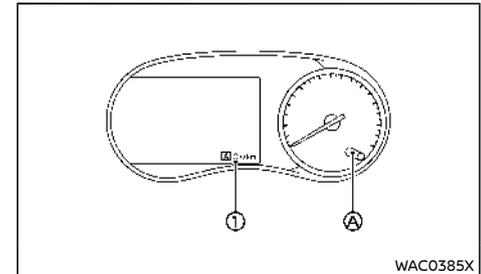
## SPEEDOMETER AND ODOMETER

### Speedometer



The speedometer indicates the vehicle speed.

### Odometer/Twin trip odometer



The odometer/twin trip odometer ① is displayed on the vehicle information display when the power switch is in the "ON" position, or is placed from the "ON" position to the "OFF" position.

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

The twin trip odometer displays the distance of

individual trips.

### Changing display:

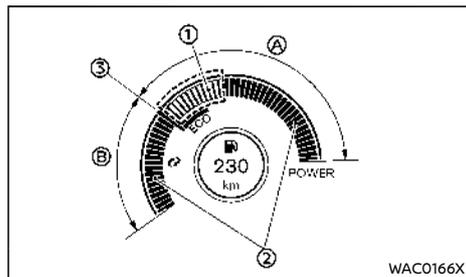
Push the trip reset switch (A) to change the display as follows:

ODO → TRIP A → TRIP B → ODO

### Resetting trip odometer:

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

## POWER METER



When the power switch is in the "ON" position, select the power meter in the vehicle information display using the ◀ ▶ and ⬇️ buttons on the steering wheel. See "How to use the vehicle information display" (P.2-14).

The power meter displays the power level of the electric motor for driving when the accelerator pedal is depressed, as well as the level of power regeneration provided to the Lithium ion (Li-ion) battery by the regenerative brake.

The power meter displays actual power consumption by the electric motor for driving (A) and the regenerative brake power provided to the Li-ion battery (B). The white illuminated part

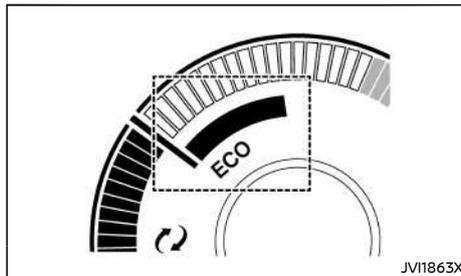
(C) in the display moves right or left depending on demand.

The power meter is in a neutral state (C).

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

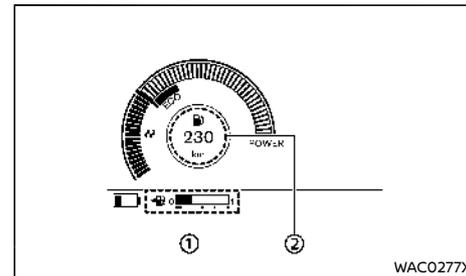
The white illuminated part moves to the left when power is generated and provided to the Li-ion battery by the regenerative brake system (Li-ion battery charging).

The power meter also indicates if the power provided to the electric motor is limited or if regenerative braking is limited. When power provision or regenerative braking is limited, the illuminated segments on the display are narrowed (D).



Driving with the power meter gauge in the ECO zone helps reduce the power 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 selected by the drive mode switch. For the ECO mode (drive mode), see "e-POWER Drive" (P. e-POWER System-7).

## FUEL GAUGE/DRIVING RANGE



### Fuel gauge

The fuel gauge (1) indicates the approximate fuel level in the tank when the power switch is in the "ON" position.

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

The Low Fuel warning (2) appears on the vehicle information display when the fuel level in the tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reads the empty (0) position.

The arrow, (3), indicates the location of the fuel-filler lid.



### CAUTION:

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

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

## Driving range

The driving range ② provides you with an estimation of the distance that can be driven before refueling. The driving range is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The display is updated every 30 seconds.

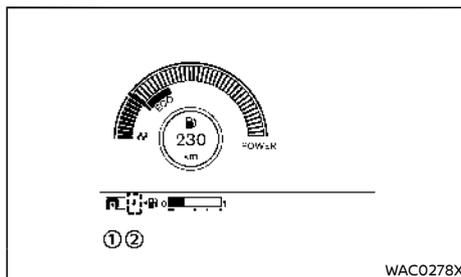
When the fuel level drops lower, the driving range will change to "----".

- If the amount of fuel added is small (less than 10L), the display just before the power switch is placed in the "OFF" position may continue to be displayed.
- When driving uphill or rounding curves, the fuel in the tank shifts, which may momentarily change the display.

When the drive mode is changed or the air conditioner is turned on/off, the driving range depending on the vehicle status is displayed.

The driving range appears on the right side of the fuel gauge when something other than the power meter is displayed on the vehicle information display.

## LI-ION BATTERY AVAILABLE CHARGE GAUGE



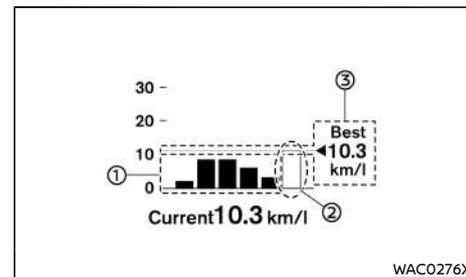
- ① The gauge indicates the approximate remaining Lithium ion (Li-ion) battery charge available to drive the vehicle.
- ② The Li-ion battery charge indicator is displayed when the Li-ion battery is being charged.

The gauge illuminates in yellow when the available Li-ion battery charge is getting low.

### NOTE:

- **Li-ion battery temperature affects the amount of remaining Li-ion battery charge.**
- **When the energy monitor is displayed in the vehicle information display, the Li-ion battery available charge gauge disappears.**

## ECO DRIVE REPORT (if equipped)



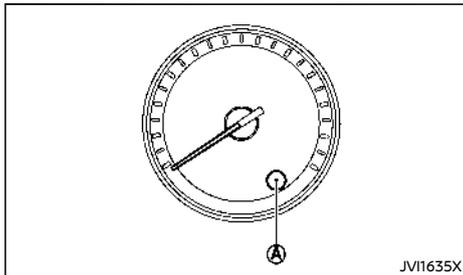
When the power switch is in the "OFF" position, ECO Drive Report appears.

- ① Previous 5 times (History)  
The average fuel economy for the previous 5 times will be displayed.
- ② Current fuel economy  
The most recent average fuel economy will be displayed.
- ③ Best fuel economy  
The best fuel economy of the past history will be displayed.

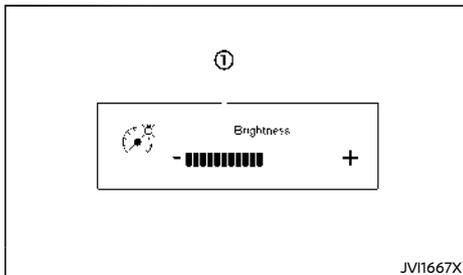
The ECO Drive Report is displayed when the vehicle is driven 500 m (0.3 mi) or more and after 30 seconds since the power switch was placed in the "ON" position.

You can set the ECO Drive Report not to appear when the power switch is in the "OFF" position. See "Customize Display" (P.2-15).

## INSTRUMENT BRIGHTNESS CONTROL



The instrument brightness control knob (A) can be operated when the power switch is in the "ON" position, or is placed from the "ON" position to the "OFF" position. When the control knob is operated, the vehicle information display switches to the brightness adjustment mode.



Turn the control knob clockwise to brighten the meter panel lights. The bar (1) moves to the + side. Turn the control knob counterclockwise to dim the lights. The bar (1) moves to the - side.

The vehicle information display returns to the normal display when the instrument brightness

control knob is not operated for more than 5 seconds.

When the brightness level reaches the maximum or minimum, a beep will sound.

## SHIFT POSITION INDICATOR

The shift position indicator indicates the shift lever position when the power switch is in the ON or READY to drive position. (See "20. Shift position indicator" (P.2-22) and "Electric shift control system" (P.5-8).)



### CAUTION:

**Do not hold the shift lever in any position other than the center position. Continued driving with the shift lever out of position could lead to damage to the vehicle. Additionally, if the shift lever is placed out of position, the position indicator blinks.**

## DRIVE MODE INDICATOR

### S (Smart) mode indicator

When the drive mode is changed to the S (Smart) mode, the indicator illuminates.

### ECO mode indicator

When the drive mode is changed to the ECO mode, the indicator illuminates.

## CHARGE MODE INDICATOR

When the charge mode is selected, the indicator illuminates.

## EV MODE INDICATOR

When the EV mode is selected, the indicator illuminates.

## WARNING LIGHTS, INDICATOR LIGHTS AND AUDIBLE REMINDERS

	12-volt battery charge warning light		Master warning light		Malfunction Indicator Light (MIL)
	Anti-lock Braking System (ABS) warning light		Seat belt warning light		Power limitation indicator light
	Approaching Vehicle Sound for Pedestrians (VSP) warning light		Supplemental Restraint System (SRS) air bag warning light		READY to drive indicator light
	Brake warning light (red)		Vehicle Dynamic Control (VDC) warning light		Security indicator light
	Electronic parking brake system warning light (yellow)		Automatic brake hold indicator (white)		Small light indicator light
	Electric power steering warning light		Automatic brake hold indicator (green)		Turn signals/hazard indicator lights
	Electric shift control system warning light		Electronic parking brake indicator light		Vehicle Dynamic Control (VDC) off indicator light
	Engine oil pressure warning light		Front fog lights indicator light*		*: if equipped
	e-POWER system warning light		High beam indicator light		
	Intelligent Emergency Braking system warning light*		Intelligent Emergency Braking system off indicator light*		

## CHECKING LIGHTS

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

The following lights (if equipped) will come on briefly and then go off:  (red), , , , .

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

## WARNING LIGHTS

### 12-volt battery charge warning

When the power switch is in the "ON" position, the 12-volt battery charge warning light illuminates. After starting the e-POWER system, the light turns off.

If the 12-volt battery charge warning light illuminates while the e-POWER system is running, or while driving, it may indicate the charging system is not functioning properly and may need servicing.

### CAUTION:

The charging system may not be functioning properly if the 12-volt battery charge warning light illuminates while the e-POWER system is running. The e-POWER system will stop operating when the 12-volt battery becomes discharged. Immediately stop the vehicle in a safe place and contact a NISSAN dealer.

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

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

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

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. (See "Anti-lock Braking System (ABS)" (P.5-51).)

### Approaching Vehicle Sound for Pedestrians (VSP) warning light

The Approaching Vehicle Sound for Pedestrians (VSP) warning light illuminates when a malfunction occurs in the VSP system.

Have the VSP system checked by a NISSAN dealer.

See "Approaching Vehicle Sound for Pedestrians (VSP) system" (P.e-POWER System-10).

### Brake warning light (red)

### WARNING:

- If the brake fluid level is below the minimum mark on the brake fluid reservoir, do not drive the vehicle until the brake system has been checked by a NISSAN dealer.

- Even if you judge it to be safe, have your vehicle towed because driving it could be dangerous.
- Depressing the foot brake pedal without the e-POWER system running and/or with a low brake fluid level could increase the stopping distance and require greater pedal travel distance and effort.

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

### Low brake fluid warning indicator:

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

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

When the brake warning light illuminates while driving, stop the vehicle safely as soon as possible. Stop the e-POWER system and check the brake fluid level. If the brake fluid level is below the minimum mark on the reservoir, add brake fluid as necessary. (See "Brake fluid" (P.8-11).)

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

### Anti-lock Braking System (ABS) warning indicator:

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

lock Braking System (ABS) warning light” (P.2-9).)

### Electronic parking brake system warning light (yellow)

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

### Electric power steering warning light

When the power switch is in the “ON” position, the electric power steering warning light illuminates. After starting the e-POWER system, the electric power steering warning light turns off. This indicates the electric power steering is operational.

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

When the electric power steering warning light illuminates with the e-POWER system running, the power assist to the steering will cease operation but you will still have control of the vehicle. At this time, greater steering efforts are required to operate the steering wheel, especially in sharp turns and at low speeds. (See “Electric power steering” (P.5-50).)

### Electric shift control system warning light

When the power switch is in the “ON” position, the electric shift control system warning light illuminates and then turns off.

This light illuminates to warn when a malfunction occurs in the electric shift control system. Have the system checked by a NISSAN dealer as soon as possible. When any warning message is displayed on the vehicle information display, follow the warning message displayed.

### Engine oil pressure warning light

When the power switch is in the “ON” position, the engine oil pressure warning light illuminates. After starting the engine, the engine oil pressure warning light turns off. This indicates that the oil pressure sensors in the engine are operational.

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

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



#### CAUTION:

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

### e-POWER system warning light

When the power switch is in the “ON” position, the e-POWER system warning light illuminates and then turns off.

If the e-POWER system warning light illuminates while driving, it may indicate that there is a malfunction in the e-POWER system.

Stop the vehicle in a safe place immediately and contact a NISSAN dealer.

### Intelligent Emergency Braking system warning light (if equipped)

When the power switch is in the “ON” position, the Intelligent Emergency Braking system warning light illuminates. After starting the e-POWER system, the Intelligent Emergency Braking system warning light turns off.

This light illuminates when the Intelligent Emergency Braking system is turned off or the Vehicle Dynamic Control (VDC) system is turned off.

If the light illuminates when the Intelligent Emergency Braking system is ON, it may indicate that the system is unavailable. See “Intelligent Emergency Braking system” (P.5-24) for more details.

### Master warning light

The master warning light illuminates when a warning message appears in the vehicle information display.

See “Vehicle information display” (P.2-14).

### Seat belt warning light

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. (See "Seat belts" (P.1-6).)

When the vehicle speed exceeds 15 km/h (9 MPH), the light will blink and the chime will sound unless the front seat belts are securely fastened. The chime will continue to sound for about 95 seconds until the seat belt is fastened.

### Supplemental Restraint System (SRS) air bag warning light

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

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

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

Unless checked and repaired, the SRS air bag system and/or pre-tensioner seat belt may not function properly. (See "Supplemental Restraint System (SRS)" (P.1-20).)

### Vehicle Dynamic Control (VDC) warning light

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

The warning light blinks when the VDC system is operating.

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

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

If a malfunction occurs, the VDC or hill start assist function is turned off, but the vehicle is still driveable. (See "Vehicle Dynamic Control (VDC) system" (P.5-11) and "Hill start assist system" (P.5-13).)

## INDICATOR LIGHTS

### Automatic brake hold indicator (white)

The automatic brake hold indicator (white) illuminates when the automatic brake hold function becomes standby. (See "Automatic brake hold" (P.3-24).)

### Automatic brake hold indicator (green)

The automatic brake hold indicator (green) illuminates while the automatic brake hold function is operating. (See "Automatic brake hold" (P.3-24).)

### Electronic parking brake indicator light

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

If the electronic parking brake is not fully released, the electronic parking brake indicator light remains on. Be sure that the electronic parking brake indicator light has turned off before driving. (See "Parking brake" (P.3-22).)

If the electronic parking brake indicator 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 system checked, and if necessary repaired, by a NISSAN dealer promptly.

### Front fog lights indicator light (if equipped)

The front fog lights indicator light illuminates when the front fog lights are on. (See "Fog light switch" (P.2-31).)

## High beam indicator light

The high beam indicator light illuminates when the headlight high beam is "ON". The indicator turns off when the low beam is selected. (See "Headlight and turn signal switch" (P.2-29).)

## Intelligent Emergency Braking system off indicator light (if equipped)

The Intelligent Emergency Braking system off indicator light illuminates when the Intelligent Emergency Braking system is turned off. (See "Intelligent Emergency Braking system" (P.5-24).)

## Malfunction Indicator Light (MIL)



### CAUTION:

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

When the power switch is in the "ON" position, the Malfunction Indicator Light (MIL) illuminates. After starting the e-POWER system, the MIL turns off. This indicates that the engine control system is operational.

If the MIL illuminates while the engine is running, it may indicate that the engine control system is not functioning properly and may need servicing. Have the vehicle checked, and if

necessary repaired, by a NISSAN dealer promptly.

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

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

- Avoid driving at speeds above 70 km/h (45 MPH).
- Avoid sudden acceleration or deceleration.
- Avoid going up steep uphill grades.
- Avoid carrying or towing unnecessary loads.



## Power limitation indicator light

When the power switch is in the "ON" position, the power limitation indicator light illuminates and then turns off.

When the power limitation indicator light is illuminated with the power switch in the READY to drive position, the power provided to the electric motors (for driving and for power generation) is reduced. Therefore the vehicle is not as responsive when the accelerator pedal is depressed while the power limitation indicator light is illuminated.

When this light illuminates and any message appears on the vehicle information display, follow the instructions.

This light illuminates in the following conditions.

- Li-ion battery available charge is extremely low.

- Li-ion battery temperature is extremely low.
- When the temperature of e-POWER system is high (motor, coolant system, Li-ion battery, etc.).
- When the electric power generation output is limited.

Immediately before the Li-ion battery is discharged and when the Low Fuel warning is also displayed in the vehicle information display, refuel as soon as possible.

If this light illuminates because the Li-ion battery is cold due to low outside temperatures, move the vehicle to a warmer location.

If the light illuminates because the Li-ion battery temperature is extremely high, stop the vehicle in a safe location and wait until the light turns off.

This light also illuminates in the following condition.

- If the accelerator pedal is depressed when the vehicle is stopped and the shift lever is placed in the "N" (Neutral) position.

In this case, even if the shift lever is shifted into the "D" (Drive) position, the acceleration will be reduced. While the accelerator pedal is depressed, the light illuminates and a message appears in the vehicle information display, and chime will sound. When the accelerator pedal is released, the indicator light and the message will turn off and chime will stop.

If the light illuminates in a situation other than those described above, or if it does not turn off, there may be a system malfunction. Contact a NISSAN dealer.



## WARNING:

**Power limitation mode can result in reduced power and vehicle speed. The reduced speed may be lower than other traffic, which could increase the chance of a collision. Be especially careful when driving. If the vehicle cannot maintain a safe driving speed, pull to the side of the road in a safe area.**



### READY to drive indicator light

The READY to drive indicator light illuminates when the e-POWER system is powered and the vehicle may be driven.



### Security indicator light

The security indicator light blinks when the power switch is in the "OFF" position. This function indicates the security system equipped on the vehicle is operational.

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



### Small light indicator light

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



### Turn signals/hazard indicator lights

The turn signals/hazard indicator lights blink when the turn signal switch lever or hazard indicator flasher switch is "ON". (See "Headlight and turn signal switch" (P.2-29) or "Hazard indicator flasher switch" (P.6-2).)



### Vehicle Dynamic Control (VDC) off indicator light

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

The Vehicle Dynamic Control (VDC) off indicator light illuminates when the VDC system is turned off. (See "Vehicle Dynamic Control (VDC) system" (P.5-11).)

## AUDIBLE REMINDERS

### Brake pad wear warning

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

Have the system checked, and if necessary repaired, by a NISSAN dealer promptly. (See "Brakes" (P.8-10).)

### Door lock warning chime

When the chime sounds, be sure to check both the vehicle and the Intelligent Key. (See "Troubleshooting guide" (P.3-9).)

### Light reminder chime

The light reminder chime will sound if the driver's door is opened while the headlight switch is in the  or  position and the power switch is in the "OFF" position.

Be sure to turn the light switch to the "OFF" position when you leave the vehicle.

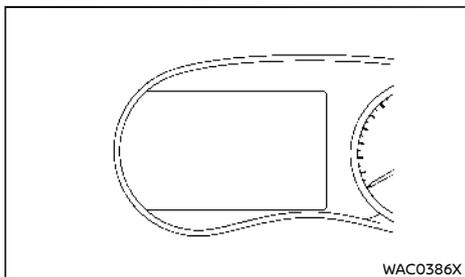
### Parking brake reminder chime

The parking brake reminder chime will sound if the vehicle is driven at more than 3 km/h (2 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 (9 MPH), the chime will sound unless the front seat belts are securely fastened. The chime will continue to sound for about 95 seconds until the seat belt is fastened.

## VEHICLE INFORMATION DISPLAY

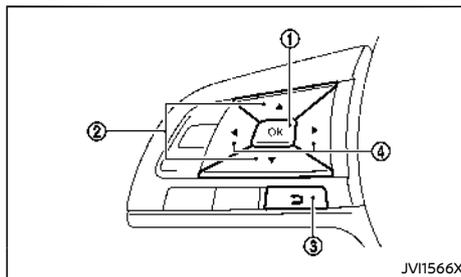


The vehicle information display is located to the left of the speedometer. It displays such items as:

- Power meter (P.2-5)
- Vehicle settings
- Trip computer information
- Odometer/twin trip odometer (P.2-4)
- Li-ion battery available charge gauge (P.2-6)
- Driver Assistance (if equipped)
- Cruise control system information (if equipped)
- Intelligent Cruise Control (ICC) system information (if equipped)
- Intelligent Key operation information
- Audio information (if equipped)
- Indicators and warnings
- Clock and outside temperature
- Other information

For language settings, see "Settings" (P.2-14).

## HOW TO USE THE VEHICLE INFORMATION DISPLAY



The vehicle information display can be changed using the switches OK ①,  $\updownarrow$  ②,  $\curvearrowright$  ③, and  $\blacktriangleleft \blacktriangleright$  ④ located on the steering wheel.

- ① OK - change or select an item in the vehicle information display
- ②  $\updownarrow$  - navigate through the items in vehicle information display
- ③  $\curvearrowright$  - go back to the previous menu
- ④  $\blacktriangleleft \blacktriangleright$  - change from one display screen to the previous or next screen.

The switches on the steering wheel mounted controls are also used to control audio functions. For additional information, see "Steering wheel mounted controls" (P.4-28) or the separate NissanConnect Owner's Manual (if equipped).

## STARTUP DISPLAY

When the power switch is placed in the "ON" position, the screens that appear in the vehicle information display include:

- Power meter
- Audio
- Fuel economy/driving range
- Drive computer
- Warnings
- Settings

Warnings will only appear if there are any present. For more information on warnings and indicators, see "Vehicle information display warnings and indicators" (P.2-19).

To control what items are displayed in the vehicle information display, see "Customize Display" (P.2-15).

## SETTINGS

The settings mode allows the customer to change the information displayed in the vehicle information display:

- Driver Assistance (if equipped)
- Customize Display
- Maintenance
- Clock
- Unit/Language
- Factory Reset

## Driver Assistance (if equipped)

To change the status, warnings or turn on or off any of the systems/warnings displayed in the "Driver Assistance" menu, use the  switch  to select and push OK  to change a menu item.

### Blind Spot (if equipped):

This setting allows the customer to enable/disable the Blind Spot Warning (BSW) system.

Use the  switch  to select and push OK  to change a menu item:

- Blind Spot Warning  
Push OK  to turn the Blind Spot Warning (BSW) system ON/OFF.
- Side Indicator Brightness  
– Bright/Standard/Dark

For additional information, see "Blind Spot Warning (BSW)" (P.5-14).

### Emergency Brake (if equipped):

This setting allows the customer to enable/disable the Intelligent Emergency Braking system.

- Front  
Push OK  to turn the Intelligent Emergency Braking system ON/OFF.

For additional information, see "Intelligent Emergency Braking system" (P.5-24).

### Parking Aids:

This setting allows the customer to enable/disable the parking aids settings.

Use the  switch  to select "Parking Aids" and push OK .

### Sonar

Use the  switch  to select "Sonar" and push OK . The following submenus are

available:

- Rear Sensor  
– ON/OFF
- Display  
– ON/OFF
- Volume  
– High/Med/Low
- Range  
– Far/Mid/Near

### Moving Object (if equipped)

Use the  switch  to select "Moving Object" and push OK  to turn ON/OFF the Moving Object Detection (MOD) system.

### Cross Traffic (if equipped)

This setting allows the customer to enable/disable the Rear Cross Traffic Alert (RCTA) system.

Use the  switch  to select "Cross Traffic" and push OK  to turn ON/OFF the Rear Cross Traffic Alert system.

### Driver Attention Alert (if equipped):

- Intelligent Driver Alertness ON/OFF

### Timer Alert:

This setting allows the customer to set an alert to notify the driver that the set time has been reached.

Use the  switch  to select "Timer Alert" and push OK . The following submenus appear:

- ---min / ---min
- Reset

To change the timer amount, use the  switch  and push OK  to save the selected time amount.

### Low Temperature Alert:

This setting allows the customer to enable/disable the alert for low outside temperature in the vehicle information display.

Use the  switch  to select "Low Temperature Alert" and push OK  to turn ON/OFF the alert.

### Chassis Control:

This setting allows the customer to enable/disable the Chassis Control system.

Use the  switch  to select "Chassis Control" and push OK . The following sub-menu is available:

- Active Trace Control  
– Intelligent Trace Control ON/OFF

### Customize Display

The Customize Display allows the customer to choose from the various meter selections.

The Customize Display can be changed using the   and the OK  switches.

### Main Menu Selection:

The items that appear when the power switch is placed in the "ON" position can be enabled/disabled. To change the items that are displayed, use the  switch  to scroll and OK  to select a menu item.

You must select at least one item.

### ECO Info Settings:

This setting allows the customer to change the ECO information settings.

Use the  switch  to select "ECO Info Settings" and push OK .

### ECO Drive Report

This setting allows the customer to enable/disable the ECO Drive Report in the vehicle

information display.

1. Use the  switch  to select "ECO Drive Report".
2. Push OK  to turn ON/OFF the ECO Drive Report.

### View History

This setting allows the customer to display the ECO Drive history and to reset the View History.

### Welcome Effect:

The welcome screen display can be turned ON/OFF to display when the power switch is placed in the "ON" position. To enable/disable the welcome screen:

Select "Welcome Effect" using the  switch  and push OK .

### Gauges

1. Use the  switch  to select "Gauges".
2. Push OK  to turn ON/OFF the dial effect in the welcome screen display.

### Animation

1. Use the  switch  to select "Animation".
2. Push OK  to turn ON/OFF the display effect in the welcome screen display.

## Vehicle Settings

The Vehicle Settings allows the customer to change settings for the following settings.

- Lighting
- Turn Indicator
- Locking
- Wipers
- Mirrors

The Vehicle Settings can be changed using the   and the OK  switches.

### Lighting:

The "Lighting" menu has the following options:

#### Welcome Headlight

The welcome lighting can be set to be ON or OFF. Use the   and the OK  switches to select an item. The following submenus are available:

- Welcome & Farewell
  - ON/OFF
- Welcome
  - ON/OFF
- Farewell
  - ON/OFF
- OFF
  - ON/OFF

#### Auto Room Lamp

The interior light timer can be set to be ON or OFF. Use OK  to turn this feature ON or OFF.

#### Light Sensitivity

The sensitivity of the Intelligent Auto Headlight can be adjusted. From the "Lighting" menu, select "Light Sensitivity". Use the   and the OK  switches to select the required sensitivity. The following options are available:

- Earliest
  - ON/OFF
- Earlier
  - ON/OFF
- Standard
  - ON/OFF
- Later
  - ON/OFF

### Turn Indicator:

The "Turn Indicator" menu has the following item:

#### 3 Flash Pass

The "3 Flash Pass" overtaking feature can be set to be ON or OFF. Use OK  to turn this feature ON or OFF.

### Locking:

The "Locking" menu has the following option:

#### Ext. Door Switch

When this item is turned on, the request switch on the door is activated. Use OK  to activate or deactivate this function.

### Wipers:

The "Wipers" menu has the following item:

#### Speed Dependent

The "Speed Dependent" feature can be activated or deactivated. Use OK  to turn this feature ON or OFF.

#### Reverse Link

The "Reverse Link" wiper feature can be activated or deactivated. From the "Wipers" menu, select "Reverse Link". Use OK  to turn this feature ON or OFF.

### Mirrors:

The "Mirrors" menu has the following items:

#### Auto Fold Off

When this item is turned on, the auto fold feature for the outside rearview mirrors is disabled. Use OK  to turn this feature ON or OFF.

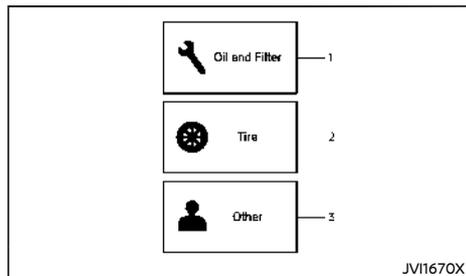
## Unfold at Ignition

When this item is turned on, the outside rear-view mirrors automatically fold when the power switch is placed in the "OFF" position, and unfold when the power switch is placed in the "ON" position. Use OK  to turn this feature ON or OFF.

## Unfold at Unlock

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 are unlocked. Use OK  to turn this feature ON or OFF.

## Maintenance



The maintenance mode allows the customer to set alerts for the following items.

1. Oil and Filter
2. Tire
3. Other

To change an item, select "Maintenance" using the  switch  and push OK .

## Oil and Filter:

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

## Tire:

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



## WARNING:

**The tire replacement indicator is not a substitute for regular tire checks, including tire pressure checks. See "Changing tires and wheels" (P.8-25). Many factors including tire inflation, alignment, driving habits and road conditions affect tire wear and when tires should be replaced. Setting the tire replacement indicator for a certain driving distance does not mean your tires will last that long. Use the tire replacement indicator as a guide only and always perform regular tire checks. Failure to perform regular tire checks, including tire pressure checks could result in tire failure. Serious vehicle damage could occur and may lead to a collision, which could result in serious personal injury or death.**

## Other:

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

## Clock

### Set Clock Manually or Set Clock:

The clock setting can be changed using the     and the OK  switches.

### Clock Format or 12H/24H:

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

## Unit/Language

The unit and language that are shown in the vehicle information display can be changed:

- Mileage/Fuel
- Temperature
- Language

Use the   and the OK  switches to select "Unit/Language" and change the units of the vehicle information display.

### Mileage/Fuel:

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

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

Use the   and the OK  switches to select and change the unit.

### Temperature:

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

- °C
- °F

Use the OK switch  to select and change the unit.

**Language:**

The language of the vehicle information display can be changed to:

- English
- Thai

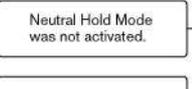
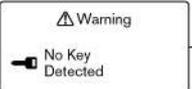
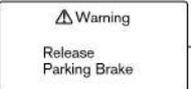
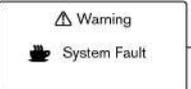
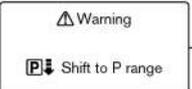
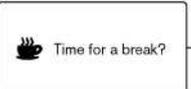
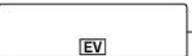
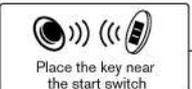
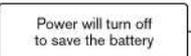
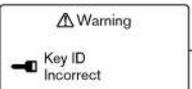
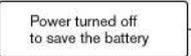
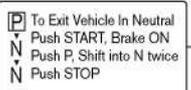
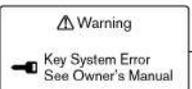
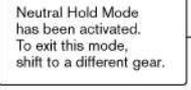
Use the   and the OK  switches to select and change the language of the vehicle information display. The language of the audio display can be changed independently of the vehicle information display. See "Audio main operation" (P.4-24) or the separate NissanConnect Owner's Manual (if equipped).

**Factory Reset**

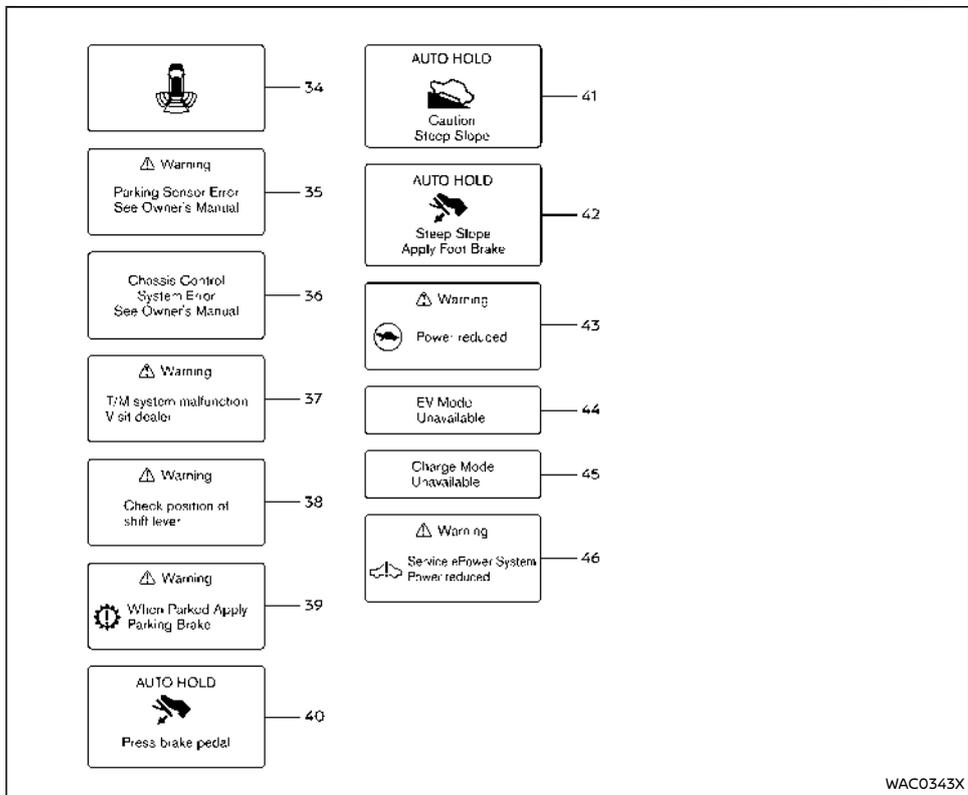
The settings in the vehicle information display can be reset back to the factory default. To reset the vehicle information display:

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

## VEHICLE INFORMATION DISPLAY WARNINGS AND INDICATORS

 1	 8	 16	 23	 32
 2	 9	 17	 24	 33
 3	 10	 18	 25	
 4	 11	 19	 26	
 5	 12	 20	 27	
 6	 13	 21	 28	
 7	 14	 22	 29	
	 15		 30	
			 31	

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Depending on the warnings and indicators, you need to push the OK switch  located on the steering wheel to turn off the message.

### 1. e-POWER system start operation indicator

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

This indicator means that the e-POWER system will start by pushing the power switch with the brake pedal depressed. You can start the e-POWER system directly in any position of the power switch.

### 2. No Key Detected warning

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

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

### 3. Shift to P range warning

This warning appears alternately with door/back door 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.

An inside warning chime will also sound. (See "Intelligent Key system" (P.3-4).)

### 4. Key Battery Low warning

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

If this warning appears, replace the battery with a new one. See "Intelligent Key battery" (P.8-17).

## 5. e-POWER system start operation for Intelligent Key system indicator

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

If this indicator appears, touch the power switch with the Intelligent Key while depressing the brake pedal. (See "Intelligent Key battery discharge" (P.5-6).)

## 6. Key ID Incorrect warning

This warning appears when the power switch is pushed from the "OFF" position and the Intelligent Key cannot be recognized by the system. You cannot start the e-POWER system with an unregistered key. Use the registered Intelligent Key.

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

## 7. Key System Error warning

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

If this warning appears while the e-POWER system is stopped, the e-POWER system cannot be started. If this warning appears while the e-POWER system is running, the vehicle can be driven. However, contact a NISSAN dealer for repair as soon as possible.

## 8. Key Registration Complete indicator

This indicator appears when a new Intelligent Key is registered to the vehicle.

## 9. Release Parking Brake warning

This warning appears when the vehicle speed is above 3 km/h (2 MPH) and the parking brake is applied. Stop the vehicle and release the parking brake.

## 10. Low Fuel warning

This warning appears when the fuel level in the tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches the empty (0) position.

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

## 11. Door/back door open warning

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

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

This warning appears after a period of time if the power switch is in the "ON" position and if the vehicle is in the "P" (Park) position. For additional information, see "Power switch positions" (P.5-6).

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

This warning appears after the power switch is automatically turned "OFF" to save the battery. For additional information, "Power switch positions" (P.5-6).

## 14. Reminder Turn OFF Headlights warning

This warning appears when the driver side door is opened with the headlight switch left ON and the power switch placed in the "OFF" position. Turn the headlight switch to the "OFF" position. For additional information, see "Headlight and turn signal switch" (P.2-29).

## 15. Headlight System Error warning

This warning appears if the LED headlights are malfunctioning. Have the system checked by a NISSAN dealer.

## 16. Take a Break? indicator (if equipped)

This indicator appears when the Intelligent Driver Alertness system detects that driver attention is decreasing. (See "Intelligent Driver Alertness" (P.5-46).)

## 17. System Fault warning (if equipped)

This warning appears when the Intelligent Driver Alertness system malfunctions.

For more details, see "Intelligent Driver Alertness" (P.5-46).

## 18. Time for a break? indicator

This indicator appears when the set time is reached. You can set the time for up to 6 hours. See "Settings" (P.2-14).

## 19. High Coolant Temp Stop Vehicle warning

This warning appears when the engine coolant temperature is extremely high.



### CAUTION:

- If this warning appears when the power switch is in the “ON” position, stop the vehicle safely as soon as possible.
- If the vehicle is overheated, continuing vehicle operation may seriously damage the engine. (See “If your vehicle overheats” (P.6-7) for the immediate action required.)

#### 20. Shift position indicator

This indicator shows the shift position when the power switch is in the “ON” position.

See “Electric shift control system” (P.5-8).

#### 21. Neutral hold mode guidance indicator (if equipped)

This indicator appears when the power switch is placed in the “OFF” position while the shift lever is in the “N” (Neutral) position (Neutral hold mode is available). For more information, see “Neutral hold mode function” (P.5-10).

#### 22. Neutral hold mode activated indicator (if equipped)

This indicator appears when the Neutral hold mode is activated. To exit the Neutral hold mode, place the vehicle in other than “N” (Neutral) position. For more information, see “Neutral hold mode function” (P.5-10).

#### 23. Neutral hold mode was not activated indicator (if equipped)

This indicator appears when the Neutral hold mode is unavailable. To activate the Neutral hold mode, wait for a while without shifting and then perform the operations again. For more information, see “Neutral hold mode function” (P.5-10).

#### 24. Drive mode indicator

The drive mode indicator appears when ECO mode or S (Smart) mode is selected (“ECO” or “SMART”).

(See “e-POWER Drive” (P.e-POWER System-7).)

#### 25. Charge mode indicator

The charge mode indicator appears when the charge mode is selected.

(See “Charge mode” (P.e-POWER System-8).)

#### 26. EV mode indicator

The EV mode indicator appears when the EV mode is selected.

(See “EV mode” (P.e-POWER System-9).)

#### 27. Blind Spot Warning (BSW) indicator (if equipped)

This indicator shows the status of the Blind Spot Warning (BSW) system.

See “Blind Spot Warning (BSW)” (P.5-14).

#### 28. Intelligent Emergency Braking system indicator (if equipped)

This indicator shows the status of the Intelligent Emergency Braking system.

See “Intelligent Emergency Braking system” (P.5-24).

#### 29. Intelligent Cruise Control (ICC) indicators (if equipped)

These indicators show the Intelligent Cruise Control (ICC) system status. For additional information, refer to “Intelligent Cruise Control (ICC)” (P.5-31).

#### 30. Cruise indicator

##### **Models without Intelligent Cruise Control (ICC) system:**

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

See “Cruise control” (P.5-30) for details.

##### **Models with Intelligent Cruise Control (ICC) system:**

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

See “Conventional (fixed speed) cruise control mode” (P.5-42) for details.

#### 31. Unavailable Front Radar Obstruction warning (if equipped)

This warning appears when the following systems (if equipped) are unavailable because the front radar is obstructed.

- Intelligent Emergency Braking system
- Intelligent Cruise Control (ICC)

For additional information, see “Intelligent Emergency Braking system” (P.5-24) or “Intelli-

gent Cruise Control (ICC)" (P.5-31).

### 32. Unavailable Side Radar Obstruction warning (if equipped)

This warning appears when the following systems are unavailable because the side radar is obstructed.

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

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

These systems are not available until the conditions no longer exist. See "Blind Spot Warning (BSW)" (P.5-14) and "Rear Cross Traffic Alert (RCTA)" (P.5-19).

### 33. Malfunction warning (if equipped)

This warning appears when the following systems (if equipped) are not functioning properly.

- Blind Spot Warning (BSW) system
- Rear Cross Traffic Alert system
- Intelligent Emergency Braking system

For additional information, see "Blind Spot Warning (BSW)" (P.5-14), "Rear Cross Traffic Alert (RCTA)" (P.5-19) and "Intelligent Emergency Braking system" (P.5-24).

### 34. Parking sensor (sonar) indicator (if equipped)

This indicator appears when the parking sensor (sonar) system is activated. For additional information, see "Camera aiding parking sensor (sonar) function (models with Intelligent Around View Monitor)" (P.4-10) or "Parking sensor (sonar) system" (P.5-48).

### 35. Parking Sensor Error warning (if equipped)

This warning appears when there is a malfunction in the parking sensor (sonar) system. If this warning appears, have the system checked by a NISSAN dealer.

### 36. Chassis Control System Error warning

This warning appears if the chassis control is not functioning properly. Have the system checked by a NISSAN dealer. (See "Chassis control" (P.5-12).)

### 37. T/M system malfunction Visit dealer warning

This warning appears if a malfunction occurs in the electric shift control system.

Contact a NISSAN dealer as soon as possible.

Since the shift position may not be switched immediately, hold the shift lever in that position and confirm that the shift position has been switched, and then release the lever.

If the vehicle does not automatically apply the "P" (Park) position when the power switch is placed in the "OFF" position, push the P position switch when parking the vehicle, and then confirm that the shift position indicator is "P" in the vehicle information display.

### 38. Check position of shift lever warning

This warning appears when the shift lever is held in a position other than the center position.

Make sure that the shift lever is placed in the center position.

If the warning appears when the shift lever is

placed in the center position, contact a NISSAN dealer immediately.

### 39. When Parked Apply Parking Brake warning

This warning appears if a malfunction occurs in the electric shift control system.

Contact a NISSAN dealer as soon as possible.

When parking the vehicle, make sure that the parking brake is applied. If the parking brake is not applied, the power switch may not be turned off.

### 40. Press brake pedal indicator

This indicator appears if the automatic brake hold switch is pushed without depressing the brake pedal while the automatic brake hold function is activated. Depress the brake pedal and push the automatic brake hold switch to deactivate the automatic brake hold function. For more details, see "Automatic brake hold" (P.3-24).

### 41. Caution Steep Slope indicator

This indicator appears when the automatic brake hold function is activated while the vehicle is on a steep hill.

### 42. Steep Slope Apply Foot Brake indicator

This indicator appears if the Caution Steep Slope indicator has appeared over about 3 minutes.

Then, the parking brake will automatically be applied and the brake force of the automatic brake hold will be released, and vehicle may move or roll away unexpectedly. Apply the foot brake to stop the vehicle moving.

#### 43. Power reduced warning

This warning appears when the power limitation indicator light illuminates. If this warning appears, vehicle speed will not increase due to the power limitation even if the accelerator pedal is depressed.

- If this warning appears when the remaining Lithium ion (Li-ion) battery charge level is extremely low, stop the vehicle in a safe place immediately and contact a NISSAN dealer.
- This warning will also appear if the accelerator pedal is depressed when the vehicle is stopped and the shift lever is placed in the "N" (Neutral) position. In this case, release the accelerator pedal.

#### 44. EV Mode Unavailable warning

This warning appears when the EV mode is not under operating conditions.

The displayed message will vary depending on the condition of the system.

To use the EV mode, correct the condition or wait until the warning disappears, and then push the EV mode switch. See "EV mode" (P.e-POWER System-9).

#### 45. Charge Mode Unavailable warning

This warning appears when the charge mode is not under operating conditions.

The displayed message will vary depending on the condition of the system.

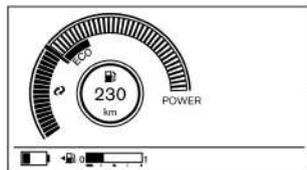
To use the charge mode, correct the condition or wait until the warning disappears, and then push and hold the EV mode switch. See "Charge mode" (P.e-POWER System-8).

#### 46. Service ePower System Power reduced warning

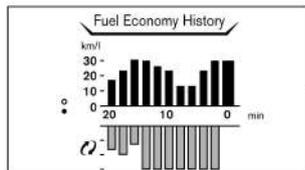
This warning appears if there is a malfunction in the e-POWER system and the power provided to the electric motor is reduced.

The message will vary depending on the condition of the system malfunction. Be sure to follow the displayed instruction.

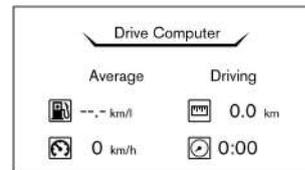
# TRIP COMPUTER



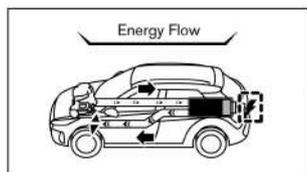
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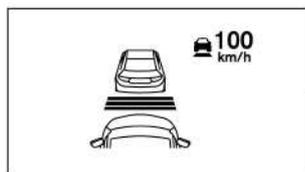
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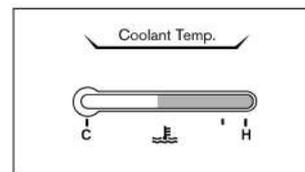
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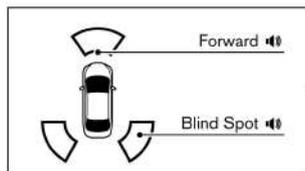
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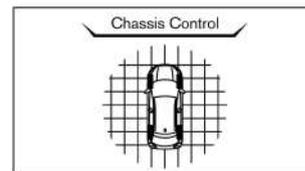
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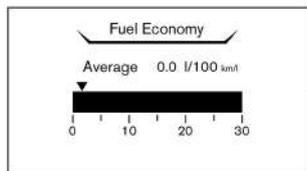
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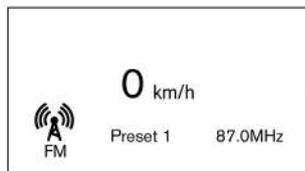
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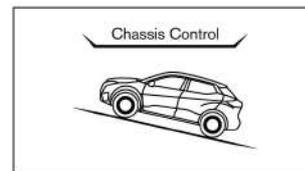
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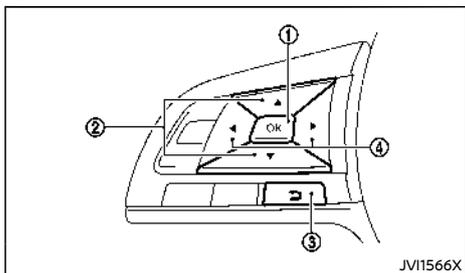


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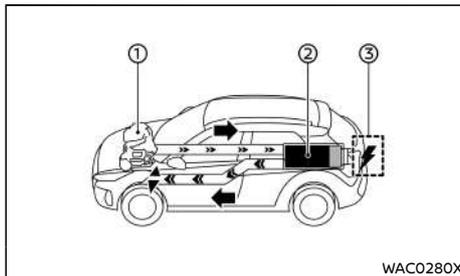
The trip computer display can be changed using the switches located on the left side of the steering wheel.

- ① OK - change or select an item in the vehicle information display
- ②  - navigate through the items in vehicle information display
- ③  - go back to the previous menu
- ④  - change from one display screen to the previous or next screen

## 1. Power meter

The power meter displays the actual electric motor for driving power consumption and the regenerative brake power provided to the Lithium ion (Li-ion) battery while driving. For more information, see "Power meter" (P.2-5).

## 2. Energy monitor



### Example

The energy monitor shows the current energy flow between engine, Lithium ion (Li-ion) battery and front tires.

- ① Engine
- ② Li-ion battery
- ③ Li-ion battery charge

The current energy status of the engine, Li-ion battery and Li-ion battery charge is shown by color or illumination pattern as follows.

① Engine display color	② Lithium ion (Li-ion) battery display color	③ Li-ion battery charge display
<p><b>Gray:</b> The engine is stopped.</p> <p><b>Green:</b> The engine is running to operate the electric motor to generate electric power.</p> <p><b>Yellow:</b> The engine speed is high.</p> <ul style="list-style-type: none"> <li>It indicates that the accelerator pedal is depressed abruptly and the engine speed is high.</li> <li>It indicates that the engine is running since the engine hood is open.</li> </ul>	<p><b>Blue:</b> The remaining battery level is normal.</p> <p><b>Yellow:</b> The remaining battery level is low.</p> <ul style="list-style-type: none"> <li>When the remaining battery level is low, less power may be provided to drive than usual.</li> </ul>	<p><b>Illuminated:</b> The Li-ion battery is being charged.</p> <p><b>Blink:</b> The Li-ion battery is being charged when the remaining battery level is low.</p>

#### NOTE:

For the e-POWER system, the engine may also start when the electric motor is not generating power. The energy flow is not displayed when the electrical power is not generated.

The charge level display will continuously change as the Li-ion battery charge level increases or decreases during normal vehicle operation.

### 3. Audio (if equipped)

The audio mode shows the status of audio information.

### 4. Fuel Economy

The average fuel consumption mode shows the average fuel consumption since the last reset.

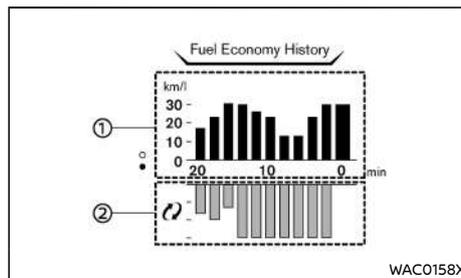
Resetting is done by pushing the OK switch ①. When the OK switch is pushed, the following menu items are displayed.

- Cancel
  - Return to the previous screen without resetting.

- Yes
  - Reset the fuel economy.

The display is updated every 30 seconds. For about the first 500 m (1/3 mile) after a reset, the display shows “—”.

### 5. Fuel Economy History



The bar graph ① shows the average fuel consumption at 2 minute intervals, in the past 20 minutes.

The bar graph ② shows the average amount of electric power in the Li-ion battery charged by regenerative brake at 2 minute intervals, in the past 20 minutes. It does not include the amount of electric power generated by the

engine.

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

This mode shows the operating condition for the Intelligent Cruise Control (ICC) system. (See “Intelligent Cruise Control (ICC)” (P.5-31).)

### 7. Driving Aids (if equipped)

The Driving Aids mode shows the operating condition for the following systems (if equipped).

- Blind Spot Warning (BSW)
- Intelligent Emergency Braking

For more details, see “Blind Spot Warning (BSW)” (P.5-14) and “Intelligent Emergency Braking system” (P.5-24).

### 8. Status

This mode shows vehicle speed and audio information (if equipped).

## 9. Drive Computer

The Drive Computer mode shows the following information.

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

### Average fuel consumption (l (liter)/100 km or km/l (liter)):

The average fuel consumption mode shows the average fuel consumption since the last reset.

The display is updated every 30 seconds. For about the first 500 m (1/3 mile) after a reset, the display shows "—.—".

### Average speed (km/h):

The average speed mode shows the average vehicle speed since the last reset.

The display is updated every 30 seconds. The first 30 seconds after a reset, the display shows "—.—".

### Trip odometer (km):

The trip odometer mode shows the total distance the vehicle has been driven since the last reset.

### Elapsed time:

The elapsed time mode shows the time since the last reset.

### Reset Menu:

The drive computer information can be reset item by item or all at once.

To reset each item or all items:

1. Push OK ① to switch to the reset menu.

2. Select one item to be reset or the "Reset All" key using the  $\updownarrow$  switch ② and push OK ①.
3. Select "Yes" to reset the item(s) by pushing OK ①.

## 10. Coolant Temp.

Allows the customer to turn the coolant temp. screen on or off in the vehicle information display.

The engine coolant temperature gauge indicates the engine coolant temperature.

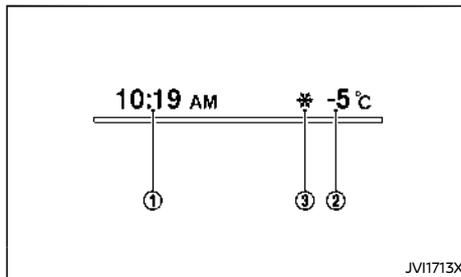
## 11. Chassis Control

This mode shows the operating condition of the following systems.

- Intelligent Trace Control system
- Hill start assist system
- Automatic brake hold function

See "Chassis control" (P.5-12), "Hill start assist system" (P.5-13) and "Automatic brake hold" (P.3-24).

## CLOCK AND OUTSIDE AIR TEMPERATURE



The clock ① and outside air temperature ② are displayed on the upper side of the vehicle

information display.

## Clock

For clock adjustment, see "Settings" (P.2-14), "Audio main operation" (P.4-24) or separate NissanConnect Owner's Manual (if equipped).

## Outside air temperature (°C or °F)

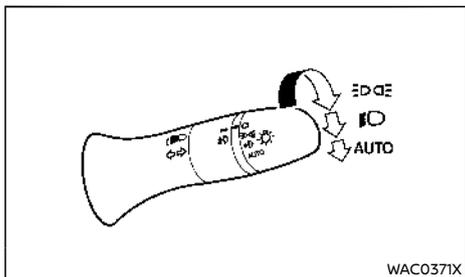
The outside air temperature is displayed in °C or °F in the range of -40 to 60°C (-40 to 140°F).

The outside air temperature mode includes a low temperature warning feature. If the outside air temperature is below 3°C (37°F), the warning ③ is displayed on the screen.

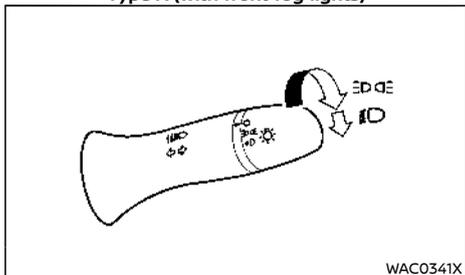
The outside temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind directions and other driving conditions. The display may differ from the actual outside temperature or the temperature displayed on various signs or billboards.

## HEADLIGHT AND TURN SIGNAL SWITCH

### HEADLIGHT SWITCH



Type A (with front fog lights)



Type B (without front fog lights)

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

#### ☾ position

The ☾ position turns on the front clearance lights, instrument panel lights, rear combination lights and other lights.

#### ☾ position

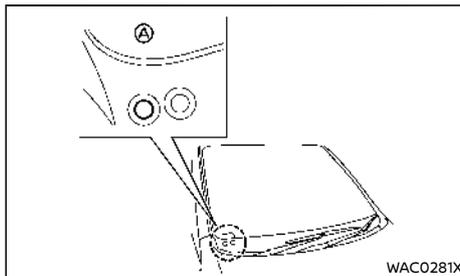
The ☾ position turns on the headlights in addition to the other lights.

#### AUTO position (if equipped)

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

The headlights will turn on automatically at twilight or in rainy weather (when the windshield wiper is operated continuously).

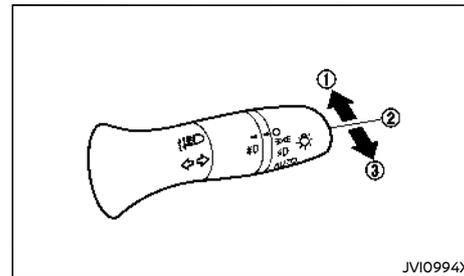
When the power switch is placed in the "OFF" position, the lights will turn off automatically.



#### CAUTION:

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

### Headlight beam



To turn on the high beam, push the lever towards the front position ①.

To turn off the high beam, pull the lever towards the rear position ③.

To flash the headlights when the high beam is not selected, pull the lever towards the rear position ③.

To flash the headlights when the high beam is selected, pull the lever twice towards the rear position ③.

The lever returns to the neutral position ②.

When the lever is pulled towards the rearmost position ③ after the power switch is placed in the "OFF" position, the headlight will turn on and stay on for 30 seconds. The lever can be pulled 4 times for up to 2 minutes.

## Daytime running light system (if equipped)

Even if the headlight switch is in  position, the daytime running lights will come on after starting the e-POWER system.

When the light switch is turned to the  or  position, the daytime running light will turn off.

## BATTERY SAVER SYSTEM

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

- The headlight switch is in either the  or  position, and the power switch is in the "OFF" position.

Be sure to turn the headlight switch to the "OFF" position when you leave the vehicle.

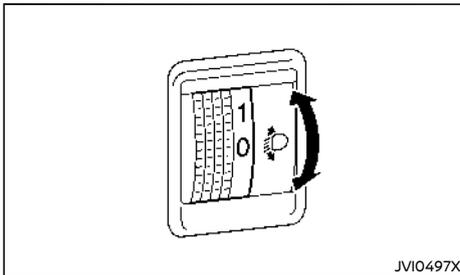
If the power switch is placed in the "OFF" position while the headlight switch is in the  or  position, the battery saver function will turn off the lights after a period of time to prevent the 12-volt battery from being discharged.



### CAUTION:

**Do not leave the lights on when the e-POWER system is not running for extended periods of time to prevent the 12-volt battery from being discharged.**

## HEADLIGHT AIMING CONTROL



The headlight aiming control operates when the power switch is in the "ON" position and the headlight is on to allow the headlight axis to be adjusted according to the driving condition.

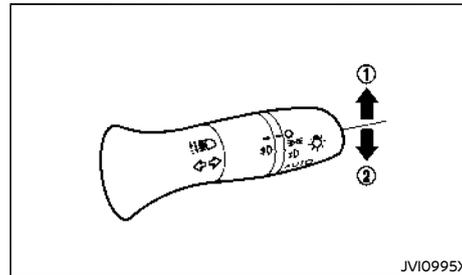
When driving with no heavy load/luggage or driving on a flat road, select the normal position "0".

If the number of occupants and load/luggage in the vehicle changes, the headlight axis may become higher than normal.

If the vehicle is traveling on a hilly road, the headlights may directly shine on the rearview and outside mirrors of a vehicle ahead or the windshield of an oncoming vehicle, which may obscure other drivers' vision.

To adjust to the proper aiming height, turn the switch accordingly. The higher the number, designated on the switch, the lower the headlight axis.

## 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 the turn or lane change, make sure that the turn signal switch is returned to its original position.**

### Turn signal

To turn on the turn signals, move the lever up  or down  towards the desired direction. When the turn is completed, the turn signal cancels automatically.

### Lane change signal

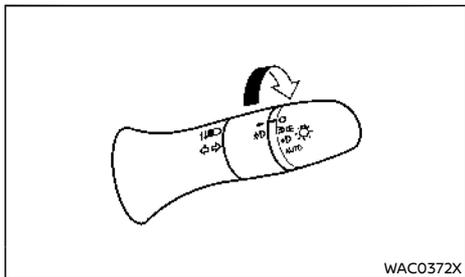
To turn on the lane change signals, move the lever up  or down  towards the desired direction.

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

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

## FOG LIGHT SWITCH (if equipped)

### FRONT FOG LIGHTS



To turn on the front fog lights, turn the fog light switch to the  position with the headlight switch in the  or  position.

To turn off the fog lights, 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, fog lights and the other lights while the power switch is in the "ON" position or the e-POWER system is running.

## WIPER AND WASHER SWITCH

### WARNING:

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

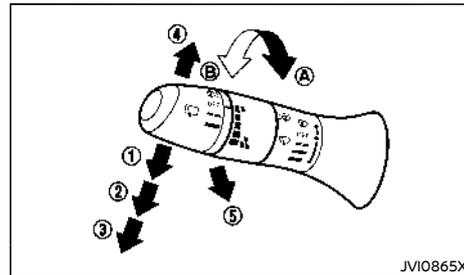
### CAUTION:

- Do not operate the washer continuously for longer than 30 seconds.
- Do not operate the washer if the window washer fluid reservoir is empty.
- If the wiper operation is interrupted by snow or ice, the wiper may stop moving to protect its motor. If this occurs, turn the wiper switch to the "OFF" position and remove the snow or ice on and around the wiper arms. In approximately 1 minute, turn the switch on again to operate the wiper.

### WINDSHIELD WIPER AND WASHER SWITCH

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

### Wiper operation



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

- The intermittent operation can be adjusted by turning the adjustment control knob, (longer)  or (shorter) .
- The speed of the intermittent operation varies depending on the vehicle speed.

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

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

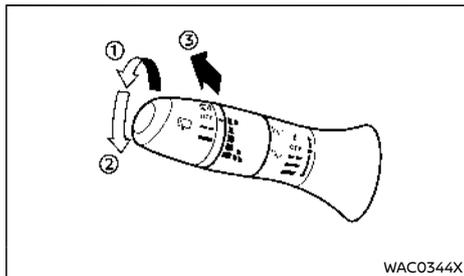
To stop the wiper operation, move the lever up to the "OFF" position.

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

## Washer operation

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

## REAR WINDOW WIPER AND WASHER SWITCH



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

## Wiper operation

The switch position "■ ■" ① operates the wiper intermittently.

The switch position "■" ② operates the wiper at low speed.

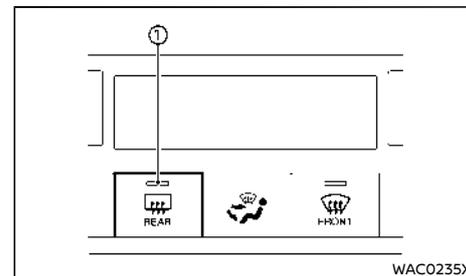
## Reverse synchronization function:

When the windshield wiper switch is on, moving the shift lever to the "R" (Reverse) position will operate the rear window wiper.

## Washer operation

To operate the washer, push the lever toward the front of the vehicle ③ until the desired amount of washer fluid is spread on the windshield. The wiper will automatically operate several times.

## DEFOGGER SWITCH



The rear window defogger switch operates when the power switch is in the "ON" position.

The defogger is used to reduce the moisture, fog or frost on the rear window surface to improve the rear view.

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

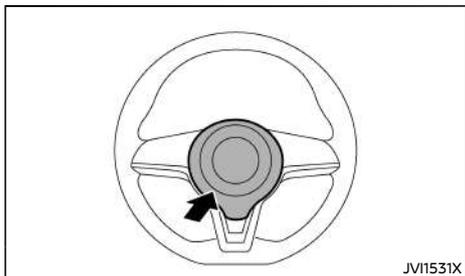
To turn off the defogger manually, push the defogger switch again.



## CAUTION:

- When operating the defogger continuously, be sure to start the e-POWER system. Otherwise, it may cause the 12-volt battery to discharge.
- When cleaning the inner side of the window, be careful not to scratch or damage the electrical conductors on the surface of the window.

## HORN



The horn switch operates regardless of the power switch position except when the 12-volt battery is discharged.

When the horn switch is pushed and held, the horn will sound. Releasing the horn switch will cease the horn sound.

## WINDOWS

### POWER WINDOWS



#### WARNING:

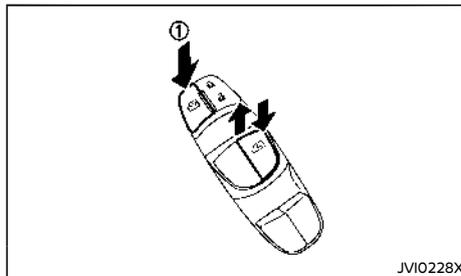
- **Make sure that all passengers have their hands, etc. inside the vehicle before operating the power windows.**
- **To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave 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.**

The power windows operate when the power switch is in the "ON" position.

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

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

### Driver's window switch



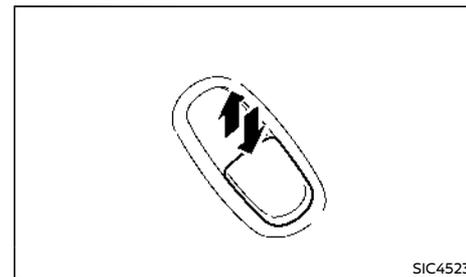
The driver's switch, which is the main switch, can control all windows.

#### Locking passengers' windows:

When the lock button ① is pushed in, the passengers' windows cannot be operated.

To cancel the passengers' windows lock, push the lock button ① again.

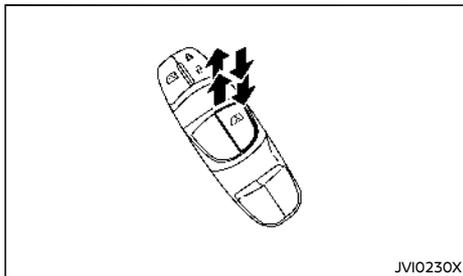
### Passenger's window switch



The passenger's switch can control its corresponding window.

When the lock button on the driver's switch is pushed in, the passenger's switch cannot be operated.

## Automatic function



Automatic function is available for the switch that has an **A** mark on its surface.

The automatic function enables a window to fully open or close without holding the switch down or up.

To fully open the window, push the power window switch down to the second detent and release the switch. To fully close the window, pull the power window switch up to the second detent and release the switch. The switch does not have to be held during window operation.

To stop the window open/close operation during the automatic function, push down or pull up the switch in opposite directions.

### Window timer (if equipped):

The window timer allows the driver's window to be operated for a period of time even if the power switch is placed in the "OFF" position. The window timer will be cancelled when the front door is opened or the preset time has been exceeded.

## Auto-reverse function:



### WARNING:

**There is a small distance just before the closed position which cannot be detected. Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.**

The auto-reverse function enables a window to automatically reverse when something is caught in the window as it is closing by the automatic function. When the control unit detects an obstacle, the window will be lowered immediately.

Depending on the environment or driving conditions, the auto-reverse function may activate if an impact or load similar to something being caught in the window occurs.

### When power window switch does not operate

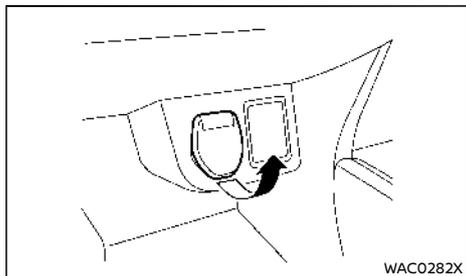
Some power window functions (automatic close function, auto-reverse function) will not operate properly, perform the following procedure to initialize the power window system.

1. Start the e-POWER system.
2. Close the door.
3. After starting the e-POWER system, open the window completely by operating the driver's window switch.
4. Pull up and hold the driver's window switch to close the driver's window. Hold the switch for approximately 3 seconds after the window has been fully closed, and then release it.
5. Check if the power window functions operate properly.

If you open or close the power window continuously, it may cause the power window not to operate properly. Perform the above procedure.

If the power window functions do not operate properly after performing the above procedure, repeat the steps. See a NISSAN dealer, if necessary, for checking the power window system.

## POWER OUTLET



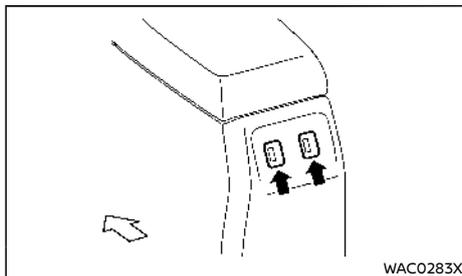
The power outlet is for powering electrical accessories such as cellular telephone.

### CAUTION:

- The outlet and plug may be hot during or immediately after use.
- This power outlet is not designed for use with a cigarette lighter unit.
- Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.
- Use power outlet with the e-POWER system running to avoid discharging the vehicle battery.
- Avoid using power outlet when the air conditioner, headlights or rear window defogger is on.
- Before inserting or disconnecting a plug, be sure to turn off the power switch of electrical accessory being used and the power switch.
- 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.

- Do not allow water to contact the outlet.
- When not in use, be sure to close the cap.

## USB (Universal Serial Bus) CHARGING CONNECTOR



### Behind the console box

The USB charging connector can be used only for charging an external device.

Connect a USB device into the connector. Charging will start automatically (maximum output up to 5 volt, 12 W, 2.4 A).

The external device will be charged continuously while the power switch is in the "ACC" or "ON" position.

Some mobile devices cannot be charged depending on their specifications.

### CAUTION:

- Do not force a USB device into the connector. Inserting the USB device tilted or upside-down into the connector may damage the connector. Make sure that the USB device is connected correctly into the connector.

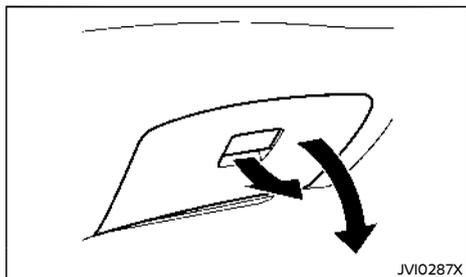
- Do not use a reversible USB cable. Using the reversible USB cable may damage the connector.

## STORAGE

### **WARNING:**

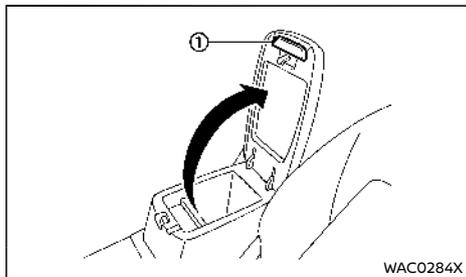
- The storages should not be used while driving so full attention may be given to vehicle operation.
- Keep the storage lids closed while driving to help prevent injury in an accident or a sudden stop.

### GLOVE BOX



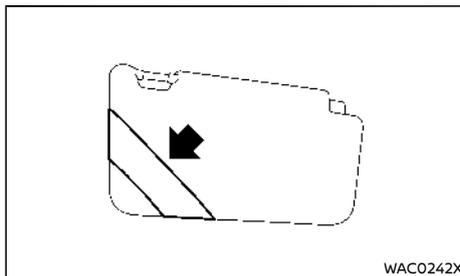
To open the glove box, pull the handle.  
To close, push the lid in until the lock latches.

### CONSOLE BOX



To open the console box, push up the knob ① and pull up the lid. To close, push the lid down until it is latched.

### CARD HOLDER



Slide a card in the card holder.

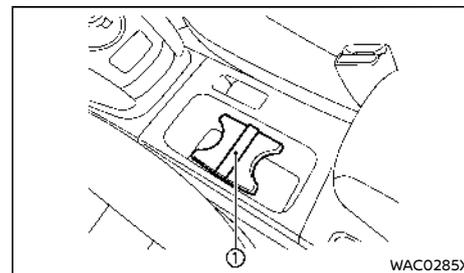
### CUP HOLDERS

#### **WARNING:**

**The driver must not remove or insert cups into the cup holder while driving so that full attention may be given to vehicle operation.**

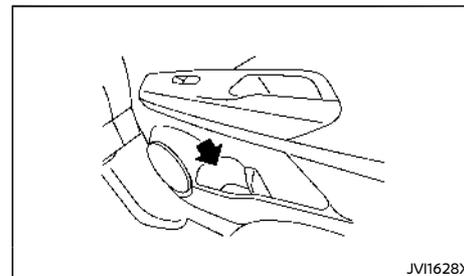
#### **CAUTION:**

**Avoid abrupt starting and braking especially when the cup holder is being used to prevent spilling the contents. If the contents are hot, they could scald you or your passengers.**



The flaps ① can be folded down when inserting a large container or using the cup holder as a tray. To raise, pull up the flap with your finger. The inner partition (with the flaps) can be removed.

### SOFT BOTTLE HOLDER



The front and rear seat soft bottle holders are located on the doors.

#### **CAUTION:**

- Do not use bottle holder for any other objects that could be thrown about in the vehicle and possibly injure people during

sudden braking or an accident.

- Do not use bottle holder for open liquid containers.

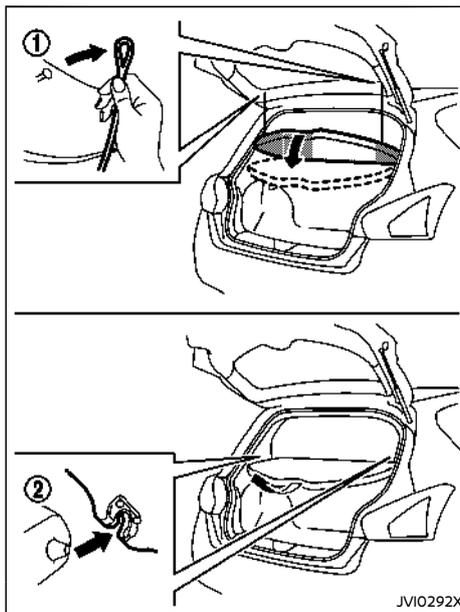
### CARGO COVER (if equipped)

#### WARNING:

- Never put anything on the cargo cover, no matter how small. Any object on it could cause an injury in an accident or sudden stop.
- Do not leave the cargo cover in the vehicle with it disengaged from the holder.
- The child restraint top tether strap may be damaged by contact with the cargo cover or items in the luggage area. Remove the cargo cover from the vehicle or secure it and any luggage. Your child could be seriously injured or killed in a collision if the top tether strap is damaged.
  - If the cargo cover contacts the top tether strap when it is attached to the top tether anchor, remove the cargo cover from the vehicle or secure it on the luggage floor. If the cargo cover is not removed, it may damage the top tether strap during a collision.
  - Do not allow cargo to contact the top tether strap when it is attached to the top tether anchor. Properly secure the cargo so it does not contact the top tether strap. Cargo that is not properly secured or that contacts the top tether strap may damage the top tether strap during a collision.

The cargo cover keeps the luggage compart-

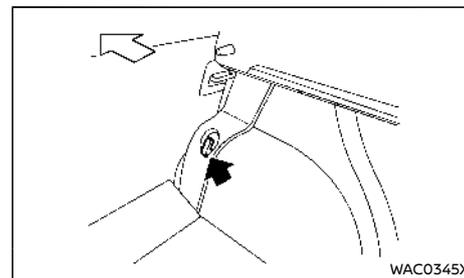
ment contents hidden from the outside.



To remove the cargo cover:

1. Remove the straps ① from the back door.
2. Remove the cargo cover from the holders ②.

### LUGGAGE HOOKS

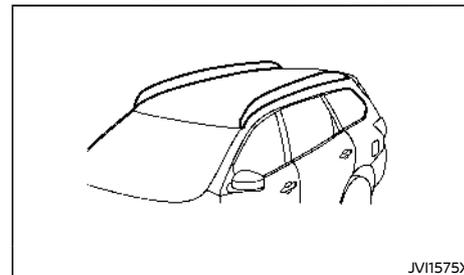


The hooks (for shopping bags, etc.) are located in the luggage room.

#### CAUTION:

Do not apply a total load of more than 3 kg (7 lb) to a single hook.

### ROOF RACK



Do not apply any load directly to the roof side rails. Cross bars must be installed before applying load/cargo/luggage to the roof of the vehicle. Follow all cross bar manufacturer's

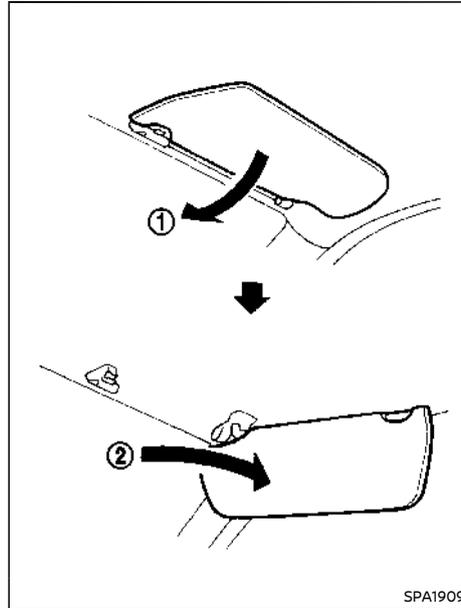
## SUN VISORS

instructions for installing and use of the cross bars.

The service load capacity for the roof side rails is 50 kg (110 lb), however do not exceed the accessory cross bars load capacity.

### WARNING:

- Always install the cross bars onto the roof side rails before loading cargo of any kind. Loading cargo directly onto the roof side rails or the vehicle's roof may cause vehicle damage.
- Drive extra carefully when the vehicle is loaded at or near the cargo carrying capacity, especially if the significant portion of that load is carried on the cross bars.
- Heavy loading of the cross bars has the potential to affect the vehicle stability and handling during sudden or unusual handling maneuvers.
- Roof rack cross bars should be evenly distributed.
- Do not exceed maximum roof rack cross bars load.
- Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision, unsecured cargo could cause personal injury.



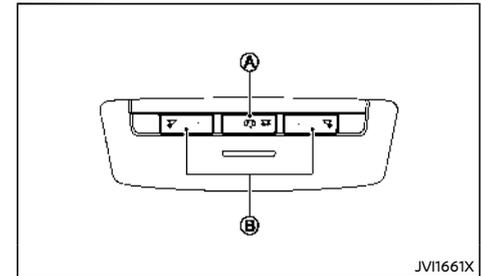
1. To block out glare from the front, swing down the sun visor ①.
2. To block glare from the side, remove the sun visor from the center mount and swing it to the side ②.

## INTERIOR LIGHTS

### CAUTION:

- Do not leave the light switch on when the e-POWER system is not running for extended periods of time to prevent the battery from being discharged.
- Turn off the lights when you leave the vehicle.

## MAP LIGHTS



### Switch

The map light switch  has three positions.

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

When the switch is in the "DOOR"  position, the map lights illuminate when a door is opened.

The interior light timer will keep the map lights on for approximately 15 seconds when:

- The power switch is placed in the "OFF" position.
- The doors are unlocked by pushing the "UNLOCK"  button (on the Intelligent Key) or the request switch, with the power switch in the "OFF" position.

- Any door is opened and then closed with the power switch in the "OFF" position.

The interior light timer will be cancelled when:

- All the doors are locked.
- The power switch is placed in the "ON" position.

When the switch is in the "OFF" position, the map lights do not illuminate, regardless of any condition.

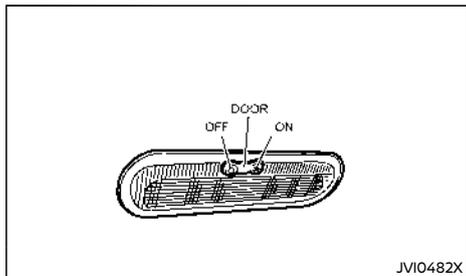
### Switch

The map light switch  has two positions.

When the switch is in the "ON"  position, the map light illuminates.

When the switch is in the "OFF" position, the map light does not illuminate.

### ROOM LIGHT



The room light has a three-position switch.

When the switch is in the "ON" position, the room light illuminates.

When the switch is in the "DOOR" position, the room light illuminates when a door is opened.

The interior light timer will keep the room light on for approximately 15 seconds when:

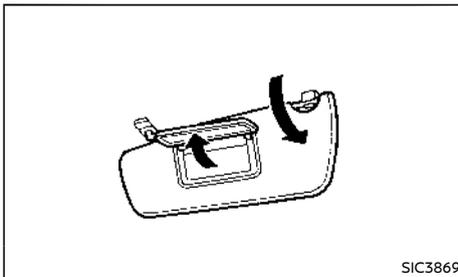
- The power switch is placed in the "OFF" position.
- The doors are unlocked by pushing the "UNLOCK"  button (on the Intelligent Key) or the request switch, with the power switch in the "OFF" position.
- Any door is opened and then closed with the power switch in the "OFF" position.

The interior light timer will be cancelled when:

- All the doors are locked.
- The power switch is placed in the "ON" position.

When the switch is in the "OFF" position, the room light does not illuminate, regardless of any condition.

### VANITY MIRROR LIGHT (if equipped)



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

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

### LUGGAGE ROOM LIGHT

The luggage room light illuminates when the back door is opened. When the back door is closed, the light will turn off.

**MEMO**

# 3 Pre-driving checks and adjustments

Keys .....	3-2	Back door .....	3-14
Intelligent Key .....	3-2	Opening back door .....	3-15
Doors .....	3-3	Closing back door .....	3-15
Locking with key .....	3-3	Back door release lever .....	3-15
Locking with inside lock knob .....	3-3	Fuel-filler lid .....	3-16
Locking with power door lock switch .....	3-4	Opening fuel-filler lid .....	3-16
Child safety rear door lock .....	3-4	Fuel-filler cap .....	3-16
Intelligent Key system .....	3-4	Steering wheel .....	3-16
Operating range .....	3-6	Mirrors .....	3-17
Using Intelligent Key system .....	3-6	Inside rearview mirror .....	3-17
Battery saver system .....	3-8	Outside rearview mirrors .....	3-21
Warning and audible reminders .....	3-8	Vanity mirror .....	3-22
Troubleshooting guide .....	3-9	Parking brake .....	3-22
Using remote keyless entry system .....	3-10	Manual operation .....	3-23
Hazard indicator and outside chime operation .....	3-10	Automatic operation .....	3-23
Security system .....	3-12	Automatic brake hold .....	3-24
Theft warning system (if equipped) .....	3-12	How to activate/deactivate the automatic brake hold function .....	3-25
NISSAN Anti-Theft system (NATS) .....	3-12	How to use the automatic brake hold function .....	3-25
Hood .....	3-13		
Opening hood .....	3-14		
Closing hood .....	3-14		

## KEYS

Your vehicle can only be driven with the keys specific to your vehicle. A key number plate is supplied with your key. Record the key number and keep the key number plate in a safe place, except in the vehicle, in case of the need to duplicate the keys.

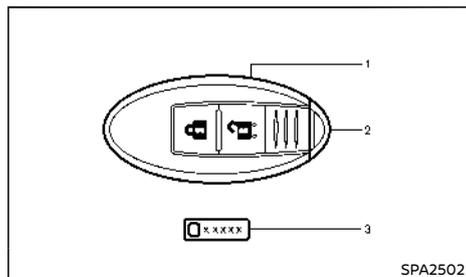
The key can only be duplicated using an original key or the original key number. The key number is required when you have lost all of the keys and do not have the original key to duplicate from. If the key is lost, or you need extra keys, provide an original key or the key number to a NISSAN dealer.



### CAUTION:

**Do not leave the keys inside the vehicle when leaving the vehicle.**

## INTELLIGENT KEY



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

Your vehicle can only be driven with the Intelligent Keys, which are registered to your vehicle's Intelligent Key system components

### 3-2 Pre-driving checks and adjustments

and NISSAN Anti-Theft System (NATS\*) components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by a NISSAN dealer prior to use with the Intelligent Key system and NATS of your vehicle. Since the registration process requires erasing all memory in the Intelligent Key components when registering new keys, be sure to take all Intelligent Keys that you have to the NISSAN dealer.

\*: Immobilizer

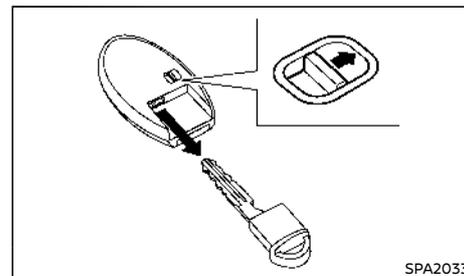


### CAUTION:

- Be sure to carry the Intelligent Key with you. Do not leave the vehicle with the Intelligent Key inside.
- Be sure to carry the Intelligent Key with you when driving. The Intelligent Key is a precision device with a built-in transmitter. To avoid damaging it, please note the following.
  - The Intelligent Key is water resistant; however, wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.
  - Do not bend, drop or strike it against another object.
  - If the outside temperature is below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ), the battery of the Intelligent Key may not function properly.
  - Do not place the Intelligent Key for an extended period in a place where temperatures exceed  $60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ).
  - Do not change or modify the Intelligent Key.

- Do not use a magnet key holder.
  - Do not place the Intelligent Key near equipment that produces a magnetic field such as a TV, audio equipment and personal computers or cellular phones.
  - Do not allow the Intelligent Key to come into contact with water or salt water, and do not wash it in a washing machine. This could affect the system function.
- If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key. This will prevent the Intelligent Key from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact a NISSAN dealer.

## Mechanical key



To remove the mechanical key, release the lock knob at the back of the Intelligent Key.

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

Use the mechanical key to lock or unlock the

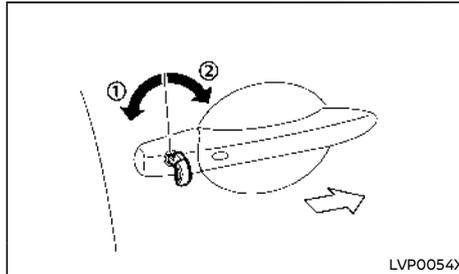
## DOORS

doors. See "Doors" (P.3-3).

### **WARNING:**

- Always look before opening any doors, to avoid an accident with oncoming traffic.
- To help avoid risk of injury or death through unintended operation of the vehicle and or its systems, including entrapment in windows or inadvertent door lock activation, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.

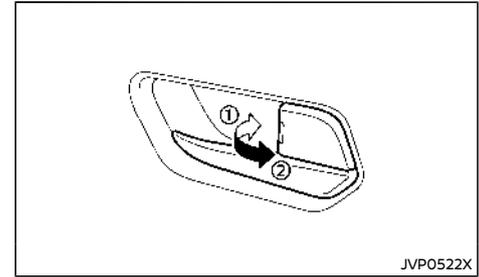
### LOCKING WITH KEY



To lock the door, insert the key to the door key cylinder located on the driver's side door and turn the key to the rear of the vehicle ①. All doors will lock.

To unlock the door, turn the key to the front of the vehicle ②. All doors will unlock.

### LOCKING WITH INSIDE LOCK KNOB



### **CAUTION:**

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

To lock the front doors, push the inside lock knob to the lock position ①, and then close the door while pulling the door handle.

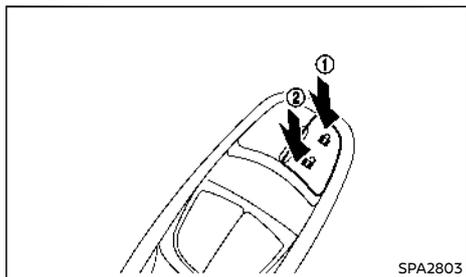
To lock the rear doors, push the inside lock knob to the lock position ① and then close the door.

To unlock, pull the inside lock knob to the unlock position ②.

Operating the driver's side lock knob will lock or unlock all doors.

When the driver's door is locked, you do not need to operate the inside lock knob. Just pull the inside door handle to open the driver's door and unlock all doors.

## LOCKING WITH POWER DOOR LOCK SWITCH



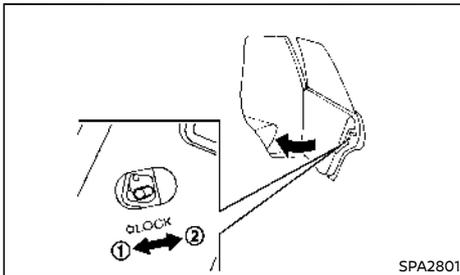
### CAUTION:

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

To lock the doors, push the power door lock switch to the lock position ①.

To unlock, push the power door lock switch to the unlock position ②.

## CHILD SAFETY REAR DOOR LOCK

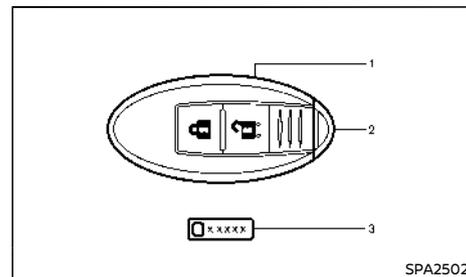


The child safety rear door locks help prevent rear doors from being opened accidentally, especially when small children are in the vehicle.

When the levers are in the lock position ①, the child safety rear door locks engage and the rear doors can only be opened by the outside door handles.

To disengage, move the levers to the unlock position ②.

## INTELLIGENT KEY SYSTEM



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



### WARNING:

- Radio waves could adversely affect electric medical equipment. Those who use a pacemaker should contact the electric medical equipment manufacturer for the possible influences before use.
- The Intelligent Key transmits radio waves when the buttons are pushed. The radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.

The Intelligent Key system can be used to operate all the doors (including the back door) with the remote controller function or pushing the request switch on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key system opera-

tion.

Be sure to read the following before using the Intelligent Key system.



**CAUTION:**

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key in the vehicle when you leave the vehicle.**
- **When the outside temperature is extremely low, the Intelligent Key system may not function properly.**

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key system transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key system under the following operating conditions.

- When operating near a location where strong radio waves are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, transceiver, and CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately 2 years. If the battery is discharged, replace it with a new one.

For information regarding replacement of a battery, see "Intelligent Key battery" (P.8-17).

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

When the battery is almost discharged, see "Intelligent Key battery discharge" (P.5-6) to start the e-POWER system.

As many as 4 Intelligent Keys can be used with one vehicle. For information about the purchase and use of additional Intelligent Keys, contact a NISSAN dealer.



**CAUTION:**

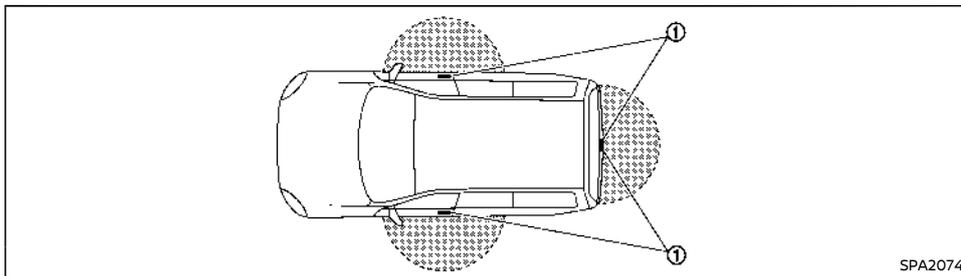
- **Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.**
- **Do not drop the Intelligent Key.**
- **Do not strike the Intelligent Key sharply against another object.**
- **Do not change or modify the Intelligent Key.**
- **Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.**
- **If the outside temperature is below  $-10^{\circ}\text{C}$  ( $14^{\circ}\text{F}$ ), the battery of the Intelligent Key may not function properly.**

- **Do not place the Intelligent Key for an extended period in an area where temperatures exceed  $60^{\circ}\text{C}$  ( $140^{\circ}\text{F}$ ).**
- **Do not attach the Intelligent Key with a key holder that contains a magnet.**
- **Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers or cellular phones.**

If an Intelligent Key is lost or stolen, NISSAN recommends erasing the ID code of that Intelligent Key from the vehicle. This may prevent the unauthorized use of the Intelligent Key to operate the vehicle. For information regarding the erasing procedure, contact a NISSAN dealer.

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

## 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.

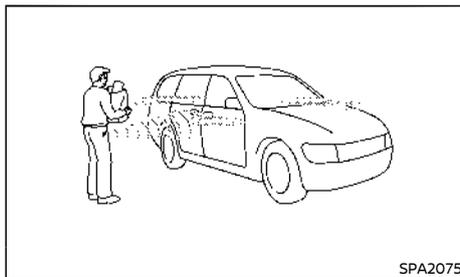
When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

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, even someone who does not carry the Intelligent Key, to push the request switch and lock/unlock the doors.

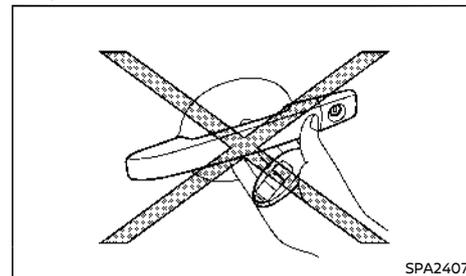
## USING INTELLIGENT KEY SYSTEM



The request switch will not function under the following conditions:

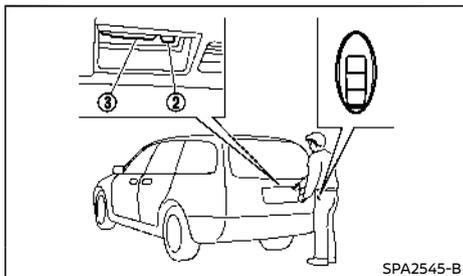
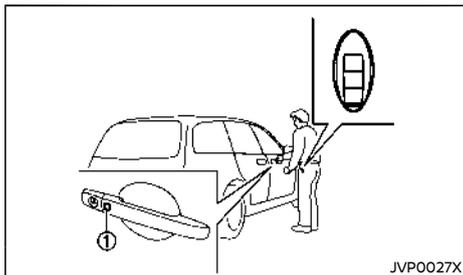
- When the Intelligent Key is left inside the vehicle
- When the Intelligent Key is not within the operational range
- When any door is open or not closed securely
- When the Intelligent Key battery is discharged

- When the power switch is in the "ON" position



- Do not push the door handle request switch with the Intelligent Key held in your hand as illustrated. The close distance to the door handle will cause the Intelligent Key system to have difficulty recognizing that the Intelligent Key is outside the vehicle.
- After locking the doors using the door handle request switch, make sure that the doors have been securely locked by operating the door handles.
- When locking the doors using the door handle request switch, make sure to have the Intelligent Key in your possession before operating the door handle request switch to prevent the Intelligent Key from being left in the vehicle.
- The door handle request switch is operational only when the Intelligent Key has been detected by the Intelligent Key system.
- To prevent the Intelligent Key from being left inside the vehicle or the luggage room, make sure you are carrying 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.



When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch (driver's or front passenger's) ① or back door request switch ② within the range of operation.

When you lock or unlock the doors, the hazard indicator will flash and the outside chime will sound as a confirmation. For details, see "Hazard indicator and outside chime operation" (P.3-10).

## Welcome light and farewell light function

When you lock or unlock the doors, the clearance lights, tail lights and the license plate lights will illuminate for a period of time. The welcome light and farewell light function can be disabled. For information about disabling the welcome light and farewell light function, see "Settings" (P.2-14).

## Locking doors

1. Push the power switch to the "OFF" position.
2. Carry the Intelligent Key with you.
3. Close all doors.
4. Push the door handle request switch ① (driver's or front passenger's) or the back door request switch ②.
5. All doors will be locked.
6. Operate door handles to confirm that the doors have been securely locked.

## 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 driver's inside lock knob after getting out of the vehicle, all the doors will unlock automatically and a chime will sound after the door is closed.
- 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 cargo cover (if equipped).
- 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

1. Carry the Intelligent Key with you.
2. Push the door handle request switch ① or the back door request switch ②.
3. All doors will be unlocked.

If a door handle is pulled while unlocking the doors, that door may not be unlocked. Returning the door handle to its original position will unlock the door. If the door does not unlock, after returning the door handle, push the door handle request switch to unlock the door.

## 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 doors.
- Pushing the power switch.

If during the preset time period the “UNLOCK” button on the Intelligent Key is pushed, all doors will be locked automatically after the next preset time.

### Opening back door

1. Carry the Intelligent Key.
2. Push the back door opener switch .
3. The back door will unlock and open. (All the other doors are unlocked.)

### BATTERY SAVER SYSTEM

When all the following conditions are met for a period of time, the battery saver system will cut off the power supply to prevent 12-volt battery discharge.

- All doors are closed, and
- The e-POWER system is stopped.

### WARNING AND AUDIBLE REMINDERS

The Intelligent Key system is equipped with a function that is designed to minimize improper operations of the Intelligent Key and to help prevent the vehicle from being stolen.

The warning buzzer sounds and the warning display appears on the vehicle information display when improper operations are detected.

See “Troubleshooting guide” (P.3-9). For warning and indicators on the vehicle information display, see “Vehicle information display warnings and indicators” (P.2-19).



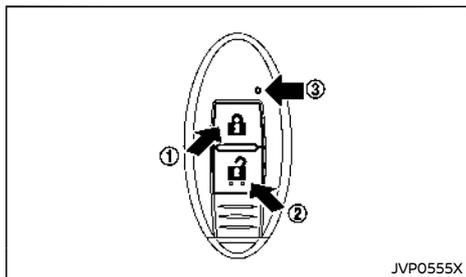
### CAUTION:

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

## TROUBLESHOOTING GUIDE

Symptom	Possible cause	Action to take	
When shifting the vehicle to the "P" (Park) position	The inside warning chime sounds for a few seconds.	The door is open position.	Push the power switch to the "OFF" position.
When closing the door after getting out of the vehicle	The No Key Detected warning appears in the vehicle information display, the outside chime sounds three times and the inside warning chime sounds for a few seconds.	The power switch is in the "ON" position.	Push the power switch to the "OFF" position.
When opening the driver's door	The Shift to P range warning appears on the vehicle information display and the outside chime sounds continuously.	The power switch is in the "ON" position and the vehicle is not placed in the "P" (Park) position.	Push the P position switch to engage the "P" (Park) position and push the power switch to the "OFF" position.
When pushing the request switch to lock the door	The outside chime sounds for a few seconds.	The Intelligent Key is inside the vehicle or the luggage room.	Carry the Intelligent Key with you.
When closing the door with the inside lock knob turned to "LOCK"	The outside chime sounds for a few seconds and all the doors unlock.	The Intelligent Key is inside the vehicle or the luggage room.	Carry the Intelligent Key with you.
When pushing the door handle request switch to lock the door	The outside chime sounds for a few seconds.	The Intelligent Key is inside the vehicle or the luggage room.	Carry the Intelligent Key with you.
When pushing the power switch to start the e-POWER system	The Key Battery Low warning appears in the vehicle information display.	The intelligent key battery charge is low.	Replace the battery with a new one. (See "Intelligent Key battery" (P.8-17).)
	The No Key Detected warning appears in the vehicle information display.	The Intelligent Key is not in the vehicle.	Carry the Intelligent Key with you.
When pushing the power switch	The Key System Error warning appears in the vehicle information display.	It warns of a malfunction with the Intelligent Key system.	Contact a NISSAN dealer.

## USING REMOTE KEYLESS ENTRY SYSTEM



- ① LOCK button 
- ② UNLOCK button 
- ③ Battery indicator light

### Operating range

The remote keyless entry system allows you to lock/unlock all doors including the back door. 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 a battery, see "Intelligent Key battery" (P.8-17).

### Locking doors

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

1. Place the power switch in the "OFF" position and carry the Intelligent Key.
2. Close all doors (including the back door).
3. Push the "LOCK"  button ① on the Intelligent Key.
4. All doors will be locked.
5. Operate the door handles to confirm that the doors have been securely locked.



#### CAUTION:

**After locking the doors using the Intelligent Key, be sure that the doors have been securely locked by operating the door handles.**

### Unlocking doors

1. Push the "UNLOCK"  button ② on the Intelligent Key.
2. All doors will be unlocked.

#### Automatic relock:

All doors will be locked automatically unless one of the following operations is performed within 30 seconds after pushing the "UNLOCK"  button ② on the Intelligent Key while the doors are locked. If during this 30-second time period, the "UNLOCK"  button ② on the Intelligent Key is pushed, all doors will be locked automatically after another 30 seconds.

- Opening any doors.
- Pushing the power switch.

### Battery indicator light

The battery indicator light  flashes when you push any button. If the light does not flash, the battery is weak or needs replacement. For information regarding replacement of a battery, see "Intelligent Key battery" (P.8-17).

### HAZARD INDICATOR AND OUTSIDE CHIME OPERATION

When you lock or unlock the doors with the request switch or the remote keyless entry function, the hazard indicator will flash and the outside chime will sound as a confirmation.

The following descriptions show how the hazard indicator and outside chime will activate when locking or unlocking the doors.

<b>Operation</b>	<b>DOOR LOCK</b>	<b>DOOR UNLOCK</b>
<b>Intelligent Key system (using request switch)</b>	HAZARD - <b>once</b> OUTSIDE CHIME - <b>once</b>	HAZARD - <b>twice</b> OUTSIDE CHIME - <b>twice</b>
<b>Remote keyless entry system (using  or  button)</b>	HAZARD - <b>once</b> OUTSIDE CHIME - <b>once</b>	HAZARD - <b>twice</b> OUTSIDE CHIME - <b>twice</b>

## SECURITY SYSTEM

Your vehicle is equipped with the following security systems:

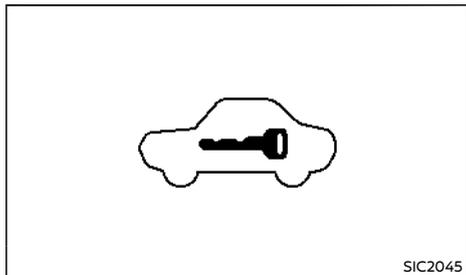
- Theft warning system (if equipped)
- NISSAN Anti-Theft System (NATS)\* (\* immobilizer)

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

### THEFT WARNING SYSTEM (if equipped)

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

### Security indicator light



The security indicator light is located in the meter panel.

This light operates whenever the power switch is in the "OFF" position. This is normal.

### How to activate the system:

1. Close all windows and place the power switch in the "OFF" position.

**The system can be activated even if the windows are open.**

2. Carry the Intelligent Key with you and get out of the vehicle.
3. Make sure the hood and the back door are closed. Close and lock all doors with Intelligent Key or the request switch.
4. Confirm that the security indicator light comes on. The security indicator light stays on for approximately 30 seconds. The vehicle security system is now pre-armed. After approximately 30 seconds the vehicle security system automatically shifts into the armed phase. The security light begins to flash once every approximately 3 seconds.

If, during this 30-second pre-arm time period, the door is unlocked with the Intelligent Key, request switch or the power switch is placed in the "ON" position, the system will not arm.

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

### Theft warning system operation:

The warning system will give the following alarm:

- The headlights blink and the horn sounds intermittently for approximately 30 seconds.
- The alarm automatically turns off after approximately 30 seconds. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated by:

- Operating the door or back door without using the Intelligent Key or the request switch.

- Opening the hood.

### How to stop alarm:

- The alarm will stop by unlocking a door with the Intelligent Key or the request switch.
- The alarm will stop when the power switch is placed in the "ON" position.

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

### NISSAN ANTI-THEFT SYSTEM (NATS)

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

If the e-POWER system does not start 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.

Start the e-POWER system using the following procedure:

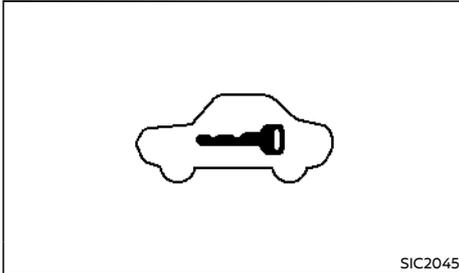
1. Remove any items that may be causing the interference away from the NATS key.
2. Leave the power switch in the "ON" position for approximately 5 seconds.
3. Place the power switch in the "OFF" position, and wait approximately 10 seconds.
4. Repeat steps 2 and 3 again.
5. Start the e-POWER system.
6. Repeat the steps above until all possible interference is eliminated.

If this procedure allows the e-POWER system to start, NISSAN recommends placing the registered NATS key separate from other devices to

## HOOD

avoid interference.

### Security indicator light



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

The light operates whenever the power switch is in the "OFF" position. The security indicator light indicates that the security systems on the vehicle are operational.

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

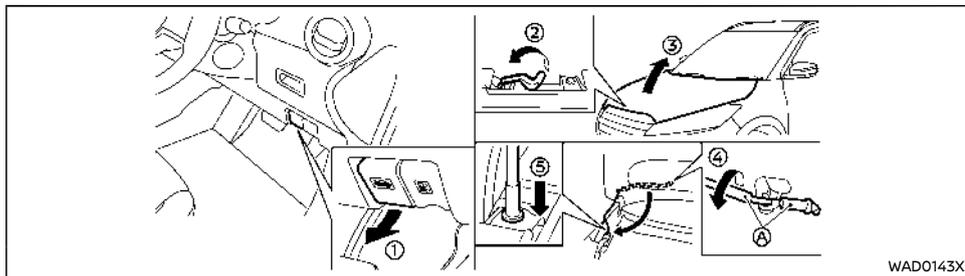
**If the light remains on and/or the e-POWER system does not start, contact a NISSAN dealer for NATS service as soon as possible. Be sure to bring all NATS keys that you have when visiting a NISSAN dealer for service.**



### WARNING:

- The hood must be closed and latched securely before driving. Failure to do so could cause the hood to fly open and result in an accident.
- Never open the hood if steam or smoke is coming from the engine compartment to avoid injury.

## OPENING HOOD



1. Pull the hood lock release handle ① located below the instrument panel until the hood springs up.
2. Locate the lever ② in between the hood and grille and push the lever sideways with your fingertips.
3. Raise the hood ③.
4. Remove the support rod ④ and insert it into the slot ⑤.

**Hold the coated part A when removing or resetting the support rod. Avoid direct contact with the metal parts, as they may be hot immediately after the engine has been stopped.**

## CLOSING HOOD

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

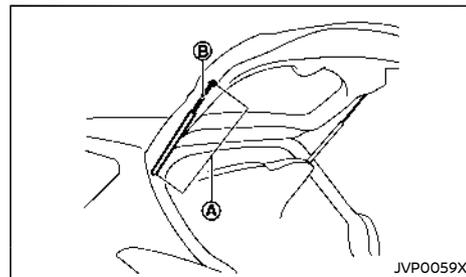
## BACK DOOR

### WARNING:

- Make sure the back door has been closed securely to prevent it from opening while driving.
- Do not drive with the back door open. This could allow dangerous exhaust gases to be drawn into the vehicle.

### CAUTION:

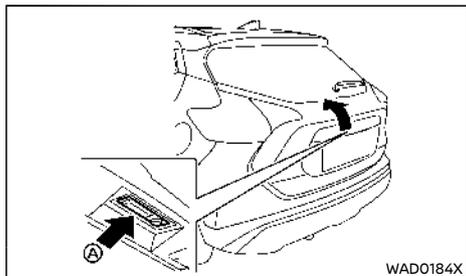
- Before opening the back door, be sure to clear away snow, ice or dust that may be stuck to the back door. If the back door is opened while materials are still stuck to it, it may suddenly close again due to the weight of these materials.
- Always be sure to fully open the back door. If it is not fully opened, it may suddenly shut.
- Be especially careful when opening the back door in strong wind. The door could be caught by a gust of wind and may close suddenly.



**CAUTION:**

- The back door gas stays **A** are installed in order to support the weight of the back door. In order to prevent the gas stays being damaged or not operating properly, be sure to observe the following points.
  - Do not insert hands or cords into the gas stays **A** or apply any force to them laterally.
  - Do not attach any adhesive foreign materials such as pieces of plastic or stickers to the rod **B** portion.
- Do not close the back door while holding the gas stays or hang anything on them. Doing so may lead to hands or arms becoming trapped in the back door and could result in an injury.

**OPENING BACK DOOR**

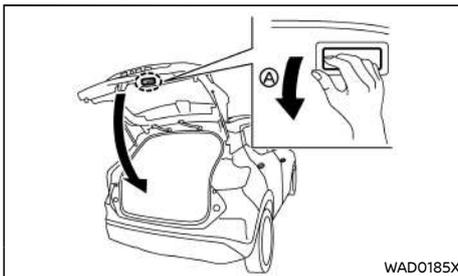


To open the back door, unlock it and push the back door opener switch **A**. Pull up the back door to open.

The back door can be unlocked by:

- Push the back door request switch. (See "Intelligent Key system" (P.3-4).)
- Push the "UNLOCK" button on the Intelligent Key. (See "Intelligent Key system" (P.3-4).)
- Push the power door lock switch to the "UNLOCK" position.

**CLOSING BACK DOOR**



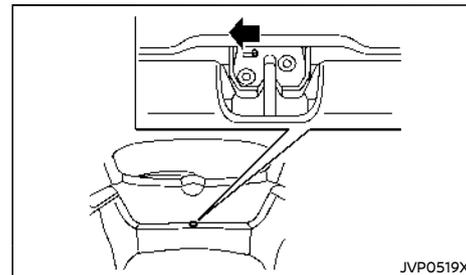
**WARNING:**

- Do not shut the back door with one hand and the other hand remaining on the back door or vehicle body. Doing so may lead to your hand becoming trapped and could result in an injury.
- When closing the back door, do not place your hands near the edge of the back door. Always be sure to close the back door from the outside.
- After closing the back door, be sure to check that it has been closed securely. If the back door opens while the vehicle is being driven, this could result in a serious accident.

To close the back door, hold the grip **A** to pull

down the back door and then push it down securely.

**BACK DOOR RELEASE LEVER**



If the back door cannot be unlocked due to a discharged battery, follow these steps.

1. Fold the rear seats down. (See "Rear seats" (P.1-3).)
2. Move the release lever to the left as illustrated to open the back door.

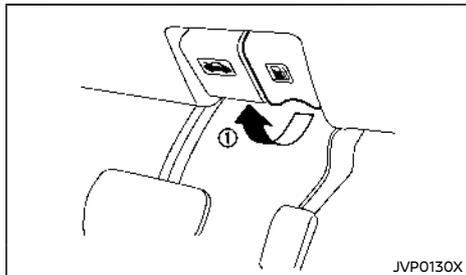
Contact a NISSAN dealer as soon as possible for repair.

## FUEL-FILLER LID

### WARNING:

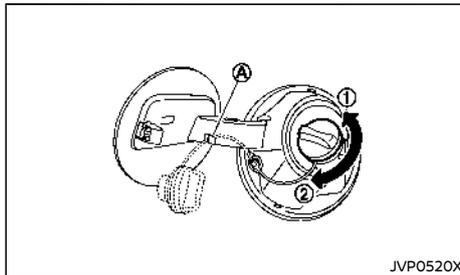
- Fuel is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the e-POWER system and do not smoke or allow open flames or sparks near the vehicle when refueling.
- Fuel may be under pressure. Turn the cap a half of a turn, and wait for any "hissing" sound to stop to prevent fuel from spraying out and possibly causing personal injury. Then remove the cap.
- Use only an original equipment type fuel-filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury.

## OPENING FUEL-FILLER LID



To open the fuel-filler lid, pull the fuel-filler lid release handle ①.

## FUEL-FILLER CAP



The fuel-filler cap is a ratcheting type. Turn the cap counterclockwise ① to remove. Tighten the cap clockwise ② until ratchet clicks, more than twice, after refueling.

Put the fuel-filler cap on the cap holder (A) while refueling.

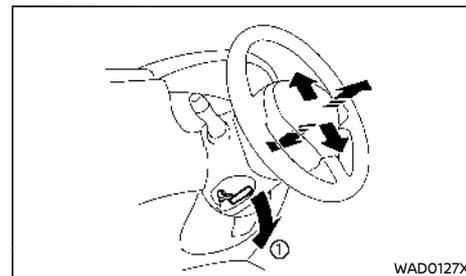
### CAUTION:

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

## STEERING WHEEL

### WARNING:

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



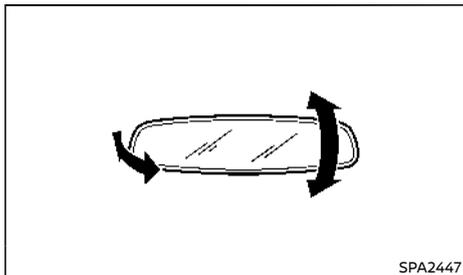
Pull the lock lever ① down and adjust the steering wheel up, down, forward or rearward to the desired position. Push the lock lever up securely to lock the steering wheel in place.

## MIRRORS

### **WARNING:**

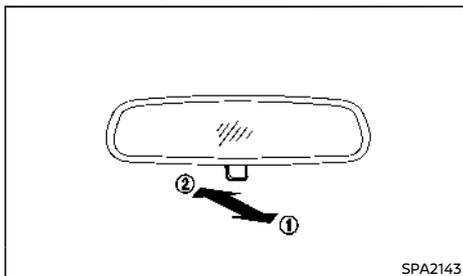
Adjust the position of all mirrors before driving. Do not adjust the mirror positions while driving so that full attention may be given to vehicle operation.

### INSIDE REARVIEW MIRROR



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

### Manual anti-glare type



Pull the adjusting lever ① when the glare from

the headlights of the vehicle behind you obstructs your vision at night.

Push the adjusting lever ② during the day for the best rearward visibility.

Intelligent Rear View Mirror (if equipped)

### **WARNING:**

Failure to follow the warnings and instructions for proper use of the Intelligent Rear View Mirror could result in serious injury or death.

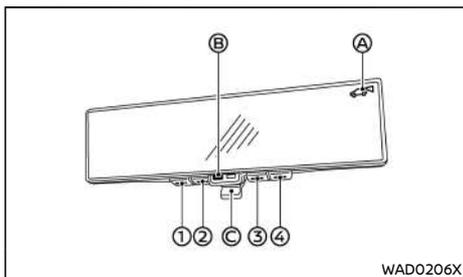
- The Intelligent Rear View Mirror is a convenience feature but it is not a substitute for proper vehicle operation. The system has areas where objects cannot be viewed. Check the blind spot of the Intelligent Rear View Mirror before vehicle operation. The driver is always responsible for safe driving.
- Do not disassemble or modify the Intelligent Rear View Mirror, the camera unit or wirings. If you do, it may result in accidents or fire. In case you notice smoke or smell coming from the Intelligent Rear View Mirror, stop using the system immediately. See a NISSAN dealer for servicing.
- Do not operate the Intelligent Rear View Mirror while driving. Doing so can be a distraction and it could lose control of your vehicle and cause an accident or serious injury.
- Do not gaze into the Intelligent Rear View Mirror display during driving. It may cause a distraction and it could lose control of your vehicle and cause an accident or serious injury. Gazing into

the display screen during driving also can be a cause of carsick for passengers.

- Do not put a cigarette or flames to the Intelligent Rear View Mirror, the camera unit or wirings. It may cause a fire.
- Be sure to adjust the Intelligent Rear View Mirror before driving. Switch the system to the conventional rearview mirror mode and be properly seated on the driver's seat. Then adjust the rearview mirror so as to see the rear window properly. Driving without adjusting the rearview mirror may cause difficulty in watching the display at Intelligent Rear View Mirror mode (camera view mode) due to the reflection from the surface of the mirror.
- If the indicator light of the mirror turns off at the Intelligent Rear View Mirror mode (camera view mode), immediately switch the system to the conventional rearview mirror mode. If the indicator light does not illuminate after switching to the Intelligent Rear View Mirror mode again, the system may malfunction. Have the system checked by a NISSAN dealer.
- If the Intelligent Rear View Mirror malfunctions, immediately switch the system to the conventional rearview mirror mode. Have the system checked by a NISSAN dealer.
- When strong light (for example, sunlight or high beams from following vehicles) enters the camera, a light beam or a glaring light may appear on the display screen of the Intelligent Rear View Mirror. In that case, switch the system to the conventional rearview mirror mode appropriately.

- If dirt, rain or snow accumulates on the exterior glass surface covering the camera, the Intelligent Rear View Mirror may not display objects clearly. Use of the rear window wiper/washer may improve visibility, but if not, switch the Intelligent Rear View Mirror to the conventional rearview mirror mode until a time the glass covering the camera can be cleaned.

#### Components:

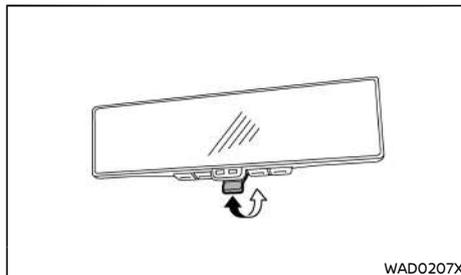


- ① MENU button
- ② Second button
- ③ Third button
- ④ Fourth button
- A Indicator
- B Indicator light
- C Mode select lever

Intelligent Rear View Mirror provides a clear rearview from a camera located on the rear of the vehicle. Intelligent Rear View Mirror has two modes: conventional rearview mirror mode and Intelligent Rear View Mirror mode (camera view mode). You can switch these two modes by the mode select lever C.

When the Intelligent Rear View Mirror mode is selected, the indicator A and "Camera" are displayed, and the indicator light B illuminates. (If a malfunction occurs in the Intelligent Rear View Mirror, the indicator A will turn off or not appear when the Intelligent Rear View Mirror mode is selected.)

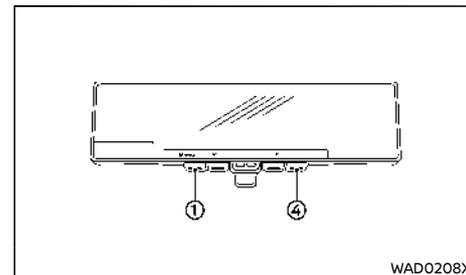
#### How to change the mode:



The mode can be switched when the power switch is in the "ON" position.

- Pull the mode select lever to switch to the Intelligent Rear View Mirror mode (camera view mode).
- Push the mode select lever to switch to the conventional rearview mirror mode.

#### How to make settings of Intelligent Rear View Mirror (MENU button operation):



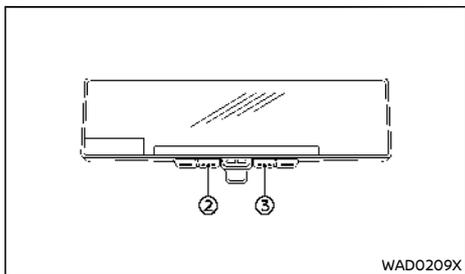
You can choose display settings of the Intelligent Rear View Mirror such as brightness, camera angle and textual indication ON or OFF.

When the Intelligent Rear View Mirror mode (camera view mode) is on, setting menu can be selected by pushing the MENU button ①. Each time the MENU button ① is pushed, the setting menu will change as follows.

MENU (initial screen) → Brightness → Down/Up → Left/Right → Rotation → Indication → Camera position → Language → Switch Backlight → License → MENU (initial screen)

After setting each item, push the button ④ to finish the setting.

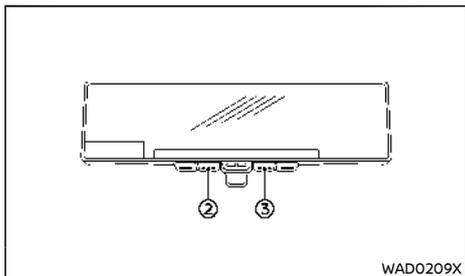
#### Brightness



The brightness of the display screen can be adjusted.

- Push the button ② to dim the screen.
- Push the button ③ to brighten the screen.

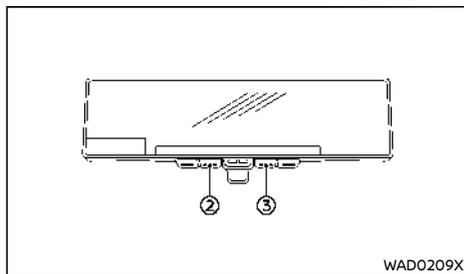
#### Down/Up



The vertical camera angle of the display screen can be adjusted.

- Push the button ② to down the camera angle.
- Push the button ③ to up the camera angle.

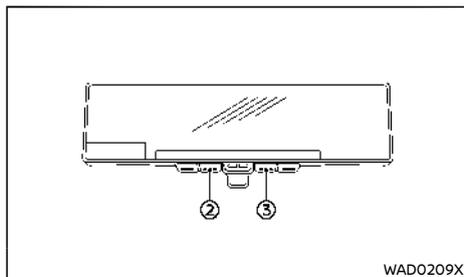
#### Left/Right



The horizontal camera angle of the display screen can be adjusted.

- Push the button ② to move the camera angle to the left.
- Push the button ③ to move the camera angle to the right.

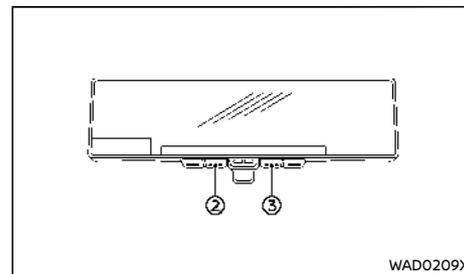
#### Rotation



The camera angle of the display screen can be rotated.

- Push the button ② to rotate the camera angle to the left.
- Push the button ③ to rotate the camera angle to the right.

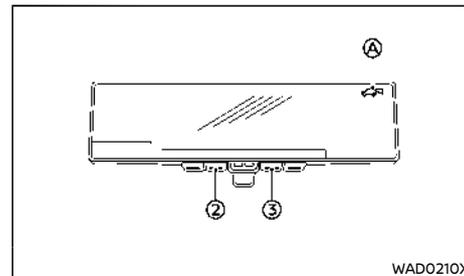
#### Indication



The textual indication can be turned on or off on the Intelligent Rear View Mirror display screen.

- Push the button ② to disable the textual indication on the display screen.
- Push the button ③ to enable the textual indication on the display screen.

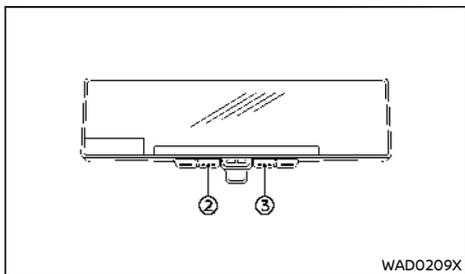
#### Camera Position



The position of the indicator A can be selected.

- Push the button ② to move the indicator to the right.
- Push the button ③ to move the indicator to the left.

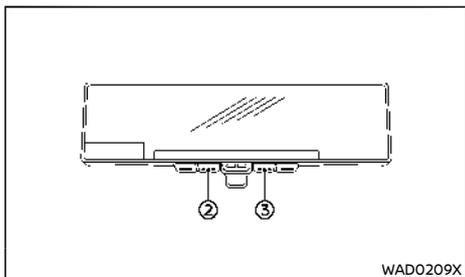
#### Language



You can select the language of the textual indication on the Intelligent Rear View Mirror display screen.

Select the language by using the ② or ③ button. The language setting will be retained even if the e-POWER system is restarted.

#### Switch Backlight



The illumination of the buttons can be turned on or off.

- Push the button ② to turn off the illumination.
- Push the button ③ to turn on the illumination.

#### License

### 3-20 Pre-driving checks and adjustments

The license information is displayed.

#### Intelligent Rear View Mirror system precautions:

##### NOTE:

- Long-term use of this system in stopping e-POWER system may cause battery to be discharged.
- Do not attach an antenna of wireless device near the Intelligent Rear View Mirror. Electric wave from wireless device may cause disturbed image in the Intelligent Rear View Mirror.
- Do not push the buttons excessively or operating the lever roughly may cause a system failure or the Intelligent Rear View Mirror itself to drop.
- Never turn the body of Intelligent Rear View Mirror horizontally by 20° or more, or vertically by 30° or more. It may damage the Intelligent Rear View Mirror.
- Do not apply strong shocks to the body of Intelligent Rear View Mirror. It may cause a system failure.
- Do not apply heavy load to the camera and camera-cover on the rear of the vehicle. It may cause the camera to be removed or may cause a system failure.
- If it is difficult to see the Intelligent Rear View Mirror display screen because of a strong external light, switch the mode to the conventional rearview mirror mode for better use.
- When LED headlights are viewed on the Intelligent Rear View Mirror display, the images may flicker. This is normal.
- Due to diffused reflection from external environment, images on the screen may flicker. This is not a malfunction.

- A quick movement of a thing may not be able to display on the camera view screen. This is not a malfunction.
- Turn on the headlights at twilight or in a tunnel, etc. When headlights are turned on, the display and the camera systems automatically switched to the night mode, which can prevent dazzling.
- The Intelligent Rear View Mirror mode (camera view mode) display is different from the conventional rearview mirror. Objects in the display may differ from actual distance. Do not solely rely on the Intelligent Rear View Mirror. Always rely on your own operation to avoid accidents.
- Immediately after the Intelligent Rear View Mirror is switched from one mode to another, you may have difficulty in focusing on the image in the mirror/display screen with your eyes. Be cautious using the Intelligent Rear View Mirror until your eyes get accustomed to the selected mode. If it is necessary to correct eye focusing, the use of multifocal glasses, etc. is recommended.
- It may take time for you to focus on the camera view display depending on your condition.
- If the brightness of the camera view display is adjusted to excessive bright level, it may cause an eyestrain in the driving. Adjust the brightness properly.
- Use the rear window wiper when it rains. If the camera view image is still unclear when the rear window wiper is in operation, check the deterioration of the rear window wiper blade.

- When using the rear window wiper, images on the screen may flicker. This is not a malfunction.
- Defog the rear window with defogger when rear window is fogged. Use the conventional rearview mirror mode until the rear window is fully defogged.
- The display of the Intelligent Rear View Mirror may become hot. This is not a malfunction.
- The color of an object in the distance or in the dark may be difficult to be recognized. This is not a malfunction.
- When the temperature is high, the brightness may be decreased or image may not be displayed on the camera view display. This is not a malfunction.
- When the temperature is low, the image may be distorted on the camera view display. This is not a malfunction.

#### System maintenance (Intelligent Rear View Mirror):

- Always keep the mirror and camera area of the rear window clean.
- Clean the mirror and the camera lens with a dry soft cloth.
- When cleaning the camera area of the rear window, use a soft cloth dampened with water and a few neutral detergent. And after that, dry it up with dry soft cloth.
- If the image on the Intelligent Rear View Mirror display screen is still unclear even after cleaning the camera area of the rear window, an oil film may be adhering to the rear window glass. Clean the rear window glass with an oil film remover.
- Never use alcohol, benzene, thinner, or any similar material to clean the mirror or camera lens. It will cause a discoloration,

deterioration or a system malfunction.

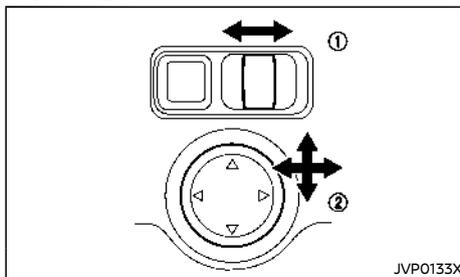
- Do not cover the front of the mirror. It may interfere with brightness adjustment or switching images on the camera view display.
- Do not attach a sticker (including transparent material) on the camera area of the rear window.

#### OUTSIDE REARVIEW MIRRORS

##### WARNING:

- Never touch the outside rearview mirrors while they are in motion. Doing so may pinch your fingers or damage the mirror.
- Never drive the vehicle with the outside rearview mirrors folded. This reduces rear view visibility and may lead to an accident.
- Objects viewed in the outside mirror are closer than they appear. (if equipped)
- The picture dimensions and distance in the outside mirrors are not real.

#### Adjusting



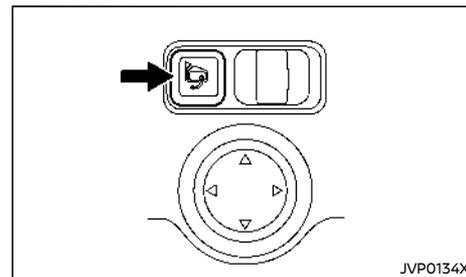
The outside rearview mirror remote control

operates when the power switch is in the "ACC" or "ON" position.

1. Move the switch ① to select the right or left mirror.
2. Adjust each mirror until the desired position is achieved ②.

#### Folding

##### Remote control type:



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

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

##### CAUTION:

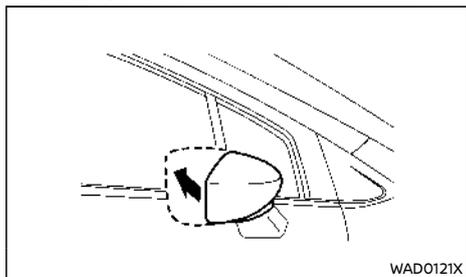
- Continuously performing the fold/unfold operation of the outside rearview mirror may cause the switch to stop the operation.
- Do not touch the mirrors while they are moving. Your hand may be pinched, and the mirror may malfunction.

- Do not drive with the mirrors stored. You will be unable to see behind the vehicle.
- If the mirrors were folded or unfolded by hand, there is a chance that the mirror will move forward or backward during driving. If the mirrors were folded or unfolded by hand, be sure to adjust them again electrically before driving.

#### Automatic fold (if equipped):

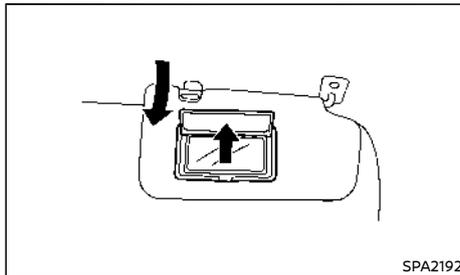
The outside rearview mirrors automatically fold when the doors are locked with the Intelligent Key or the request switch. The mirrors unfold when the doors are unlocked and the power switch is placed in the "ON" position. For information about disabling the automatic fold function, see "Vehicle Settings" (P.2-16).

#### Manual type:



Fold the outside rearview mirror by pushing it toward the rear of the vehicle.

#### VANITY MIRROR

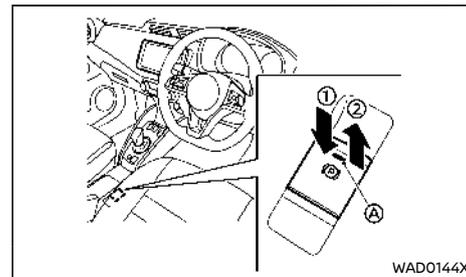


To access the vanity mirror, pull the sun visor down and pull up the mirror cover.

## PARKING BRAKE

### WARNING:

- Never drive the vehicle with the parking brake applied. The brake will overheat and fail to operate and will lead to an accident.
- Never release the parking brake from outside the vehicle. If the vehicle moves, it will be impossible to push the foot brake pedal and will lead to an accident.
- Never use the shift lever in place of the parking brake. When parking, be sure the parking brake is fully applied.
- To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.



The electronic parking brake can be applied or released automatically or by operating the parking brake switch.

## MANUAL OPERATION

The electronic parking brake will not be automatically applied if the e-POWER system is stopped without using the power switch (for example, battery discharge). In such a case, you have to apply the parking brake manually.

**To apply:** Pull the parking brake switch up ②. The indicator light (A) will illuminate.

**To release:** With the power switch in the "ON" position, depress the brake pedal and push the parking brake switch down ①. The indicator light (A) will turn off.

Before driving, check that the electronic parking brake indicator light (B) turns off. For additional information, see "Warning lights, indicator lights and audible reminders" (P.2-8).

### NOTE:

- **A chime will sound if the vehicle is driven without releasing the electronic parking brake. See "Audible reminders" (P.2-13).**
- **While the electronic parking brake is applied or released, an operating sound is heard from the lower side of the rear seat. This is normal and does not indicate a malfunction.**
- **When the electronic parking brake is frequently applied and released in a short period of time, the electronic parking brake may not operate in order to prevent the electronic parking brake system from overheating. If this occurs, operate the parking brake switch again after waiting approximately 1 minute.**
- **If the electronic parking brake must be applied while driving in an emergency, pull up and hold the parking brake switch. When you release the parking brake switch, the electronic parking brake will be released.**

- **While pulling up the parking brake switch during driving, the electronic parking brake is applied and a chime sounds. The electronic parking brake indicator light in the meter and in the parking brake switch illuminate. This does not indicate a malfunction. The electronic parking brake indicator light in the meter and in the parking brake switch turn off when the electronic parking brake is released.**
- **When pulling the electronic parking brake switch up with the power switch in the "OFF" or "ACC" position, the parking brake switch indicator light will continue to illuminate for a short period of time.**

## AUTOMATIC OPERATION

The electronic parking brake will apply automatically if the power switch is placed in the "OFF" position when the brake force is maintained by automatic brake hold function. (See "Automatic brake hold" (P.3-24).)

The electronic parking brake is automatically released as soon as the vehicle starts while the accelerator pedal is depressed.

The driver's seat belt needs to be fastened.



### WARNING:

- **The electronic parking brake will not be automatically applied when the e-POWER system is stopped without using the power switch (for example, discharging the vehicle battery).**

Without the vehicle stationary, the electronic parking brake will not be automatically applied even if the e-POWER system is turned off with the power switch.

- **Before leaving the vehicle, push the P position switch to engage the "P" (Park) position and check that the electronic parking brake indicator light is illuminated to confirm that the electronic parking brake is applied. The electronic parking brake indicator light will remain on for a period of time after the driver's door is locked.**



### CAUTION:

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

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

### NOTE:

- **If a malfunction occurs in the electronic parking brake system (for example, due to battery discharge), contact a NISSAN dealer.**
- **Under the following conditions, the electronic parking brake will automatically be applied and the brake force of the automatic brake hold will be released.**
  - The braking force is applied by the automatic brake hold function for 3 minutes or longer.
  - The vehicle is placed in the "P" (Park) position.
  - The driver's seat belt is unfastened.
  - The driver's door is opened.
  - The power switch is placed in the "OFF" position.

## AUTOMATIC BRAKE HOLD

- The parking brake is applied manually.
- If a malfunction occurs in the automatic brake hold function.

The automatic brake hold function maintains the braking force without the driver having to depress the brake pedal when the vehicle is stopped at a traffic light or intersection. As soon as the driver depresses the accelerator pedal again, the automatic brake hold function is deactivated and the braking force is released. The operating status of the automatic brake hold is shown by color on the vehicle information display. See "Vehicle information display warnings and indicators" (P.2-19).



### WARNING:

- The automatic brake hold function is not designed to hold the vehicle on a steep hill or slippery road. Never use the automatic brake hold when the vehicle is stopped on a steep hill or slippery road. Failure to do so may cause the vehicle to move.
- An automatic brake hold indicator may appear in the vehicle information display to request that the driver retake control by depressing the brake pedal.
- When the automatic brake hold function is activated, but fails to maintain the vehicle to a standstill, depress the brake pedal to stop the vehicle. If the vehicle unexpectedly moves due to the outside conditions, the chime may sound and automatic brake hold indicator may illuminate in the vehicle information display.
- Be sure to deactivate the automatic brake hold function when using a car wash or towing your vehicle.
- Make sure to place the vehicle in the "P" (Park) position and apply the parking brake when parking your vehicle, riding on or off the vehicle, or loading a luggage.

Failure to do so could cause the vehicle to move or roll away unexpectedly and result in serious personal injury or property damage.

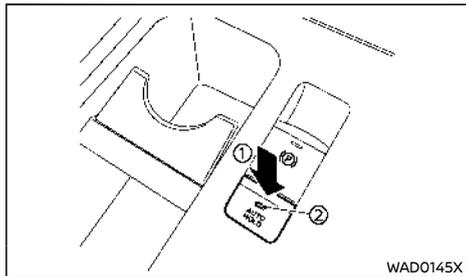


### CAUTION:

- If any of the following conditions occur, the automatic brake hold function may not function. Have the system checked by a NISSAN dealer promptly.
  - A warning message appears in the vehicle information display.
  - The indicator light of the automatic brake hold switch does not illuminate when the switch is pushed.
- The automatic brake hold function will not be activated if the Vehicle Dynamic Control (VDC) warning light, electronic parking brake system warning light or the master warning light illuminates, and the chassis control system fault warning message appears in the vehicle information display.
- To maintain the braking force to keep the vehicle to a standstill, a noise may be heard. This is not a malfunction.

## HOW TO ACTIVATE/DEACTIVATE THE AUTOMATIC BRAKE HOLD FUNCTION

How to activate the automatic brake hold function



1. With the power switch in the "ON" position, press the automatic brake hold switch ①. The indicator light ② of the automatic brake hold switch illuminates.
2. When the automatic brake hold function becomes standby, the automatic brake hold indicator  (white) on the meter illuminates.

To use the automatic brake hold function, the following conditions need to be met.

- The driver's seat belt is fastened.
- The electronic parking brake is released.
- The vehicle is not in the "P" (Park) position.
- The vehicle is not parked on a steep hill.

### NOTE:

**The automatic brake hold function resets to off every time the power switch is switched from the "OFF" position to the "ON" position. Before starting the vehicle, be sure to check**

**the indicator light ② of the automatic brake hold switch.**

How to deactivate the automatic brake hold function

While the automatic brake hold function is activated, press the automatic brake hold switch to turn off the indicator light of the automatic brake hold switch and deactivate the automatic brake hold function. To deactivate the automatic brake hold function while the brake force has been maintained by the automatic brake hold function, depress the brake pedal and press the automatic brake hold switch.



### CAUTION:

**Make sure to firmly depress and hold the brake pedal when turning off the automatic brake hold function while the brake force applied. When the automatic brake hold function is deactivated, the brake force will be released. This could cause the vehicle to move or roll away unexpectedly and result in an accident.**

## HOW TO USE THE AUTOMATIC BRAKE HOLD FUNCTION

To maintain braking force automatically

With the automatic brake hold function activated and the automatic brake hold indicator (white) illuminated on the meter, depress the braking pedal to stop the vehicle. The automatic brake hold indicator (green) illuminated on the meter, and the brake force is automatically applied without your foot depressed on the brake pedal. While the brake hold is maintained, the automatic brake hold indicator

(green) illuminates on the meter.



### CAUTION:

**Confirm the indicator changes to green before removing your foot from the brake pedal.**

To start the vehicle from standstill

With the vehicle not placed in the "P" (Park) or "N" (Neutral) position, depress the accelerator pedal while the brake force is maintained. The brake force will automatically be released to restart the vehicle.

The automatic brake hold indicator (white) on the meter illuminates and the automatic brake hold returns to standby.

## Parking

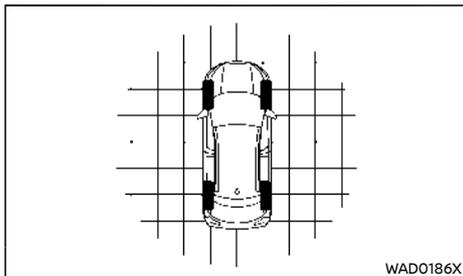
When the vehicle is placed in the "P" (Park) position with the brake force is maintained by automatic brake hold function, the electronic parking brake will automatically be applied and the brake force of the automatic brake hold will be released. The automatic brake hold indicator turns off. When the electronic parking brake is applied with the brake force is maintained by automatic brake hold function, the brake force of the automatic brake hold will be released. The automatic brake hold indicator turns off.

### NOTE:

- **Under the following conditions, the electronic parking brake will automatically be applied and the brake force of the automatic brake hold will be released.**
  - **The braking force is applied by the automatic brake hold function for 3 minutes or longer.**

- The driver's seat belt is unfastened.
- The driver's door is opened.
- The power switch is placed in the "OFF" position.
- If the parking brake is applied manually.
- If a malfunction occurs in the automatic brake hold function.
- When the vehicle stops, but the brake force is not automatically applied, depress the brake pedal firmly until the automatic brake hold indicator (green) illuminates.

#### Automatic brake hold function display



The automatic brake hold function status is shown by color in the "Chassis Control" mode in the vehicle information display. See "11. Chassis Control" (P.2-28).

Also, depending on the driving situations, some warnings or indicators may be displayed in the vehicle information display. See "Vehicle information display warnings and indicators" (P.2-19).

# 4 Monitor, cooler and air conditioner, and audio system

NissanConnect Owner's Manual (if equipped) .....	4-2	Ventilators .....	4-14
Safety precautions .....	4-2	Center ventilators .....	4-14
Intelligent Around View Monitor (if equipped) .....	4-3	Side ventilators .....	4-14
Intelligent Around View Monitor		Cooler and air conditioner .....	4-15
system operation .....	4-4	Operating tips .....	4-15
Difference between predictive and		Automatic cooler .....	4-16
actual distances .....	4-5	Servicing air conditioner .....	4-17
How to park with predictive course lines .....	4-7	Audio system (models without	
How to switch the display .....	4-8	NissanConnect system) .....	4-17
Adjusting the screen .....	4-8	Audio operation precautions .....	4-17
Intelligent Around View Monitor		AM-FM Radio with USB (Universal Serial Bus)	
system limitations .....	4-8	connection port .....	4-24
System Maintenance .....	4-9	Steering wheel mounted controls .....	4-28
Camera aiding parking sensor (sonar) function		USB (Universal Serial Bus) connection port/AUX	
(models with Intelligent Around View Monitor) .....	4-10	(auxiliary) input jack .....	4-29
Parking sensor (sonar) system operation .....	4-11	USB memory device care .....	4-29
Turning on and off the parking sensor		Antenna .....	4-30
(sonar) function .....	4-11	Shark fin antenna .....	4-30
Parking sensor (sonar) system limitations .....	4-11	Car phone or CB radio .....	4-30
System maintenance .....	4-11	Bluetooth® Hands-Free Phone System	
Moving Object Detection (MOD) function (models with		(models without NissanConnect system) .....	4-31
Intelligent Around View Monitor) .....	4-12	Regulatory information .....	4-31
MOD system operation .....	4-12	Using the system .....	4-31
Turning the MOD system on or off .....	4-13	Getting Started .....	4-31
MOD system limitations .....	4-13	Using the system .....	4-32
System maintenance .....	4-14	Volume control .....	4-32
		Bluetooth® settings .....	4-32

## NISSANCONNECT OWNER'S MANUAL (if equipped)

For models with NissanConnect system, refer to the NissanConnect Owner's Manual that includes the following information.

Available functions may vary depending on the models and specifications.

- Audio
- Hands-free phone
- Apple CarPlay
- Information and settings viewable on NissanConnect

## SAFETY PRECAUTIONS



### WARNING:

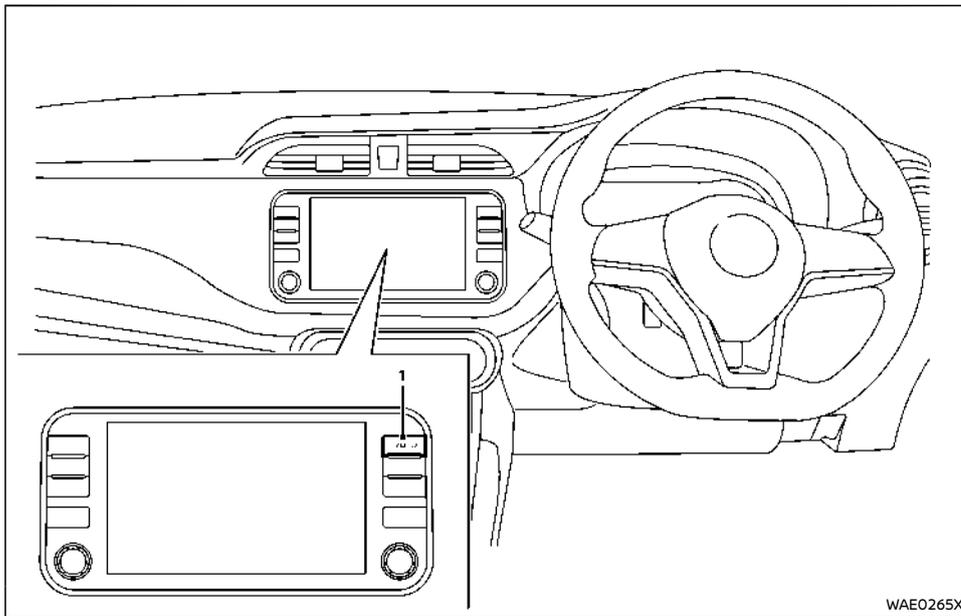
- **Do not adjust the cooler controls or audio controls while driving so that full attention may be given to vehicle operation.**
- **If you noticed any foreign objects entering the system hardware, spilled liquid on the system, or noticed smoke or fumes coming out from the system, or any other unusual operation is observed, stop using the system immediately and contact the nearest NISSAN dealer. Ignoring such conditions may lead to an accident, fire or electric shock.**
- **Do not disassemble or modify this system. If you do, it may lead to an accident, fire, or electric shock.**



### CAUTION:

**Do not use the system when the e-POWER system is not running for extended periods of time to prevent battery discharge.**

## INTELLIGENT AROUND VIEW MONITOR (if equipped)



### 1. CAMERA button



#### WARNING:

Failure to follow the warnings and instructions for the proper use of the Intelligent Around View Monitor system could result in serious injury or death.

- The Intelligent Around View Monitor is a convenience feature but 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 areas where objects do not always appear in the bird's-eye, front, or rear views. Always check your surroundings to be sure that it is safe to move before operating the vehicle. Always operate the vehicle slowly.

- The driver is always responsible for safety during parking and other maneuvers.



#### CAUTION:

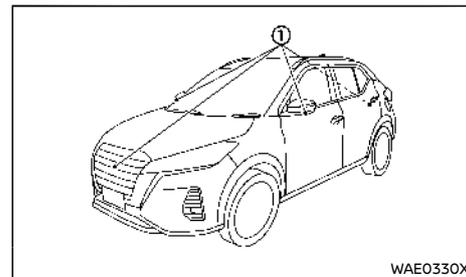
Do not scratch the camera lens when cleaning dirt or snow from the front of the camera.

The Intelligent Around View Monitor system is designed as an aid to the driver in situations such as slot parking or parallel parking.

The monitor displays various views of the position of the vehicle in a split screen format. Not all views are available at all times.

#### Available views:

- Front view  
An approximately 150-degree view of the front of the vehicle.
- Rear view  
An approximately 150-degree view of the rear of the vehicle.
- Bird's-eye view  
The surrounding views of the vehicle from above.
- Front-side view  
The view around and ahead of the front passenger's side wheel.



To display the multiple views, the Intelligent Around View Monitor system uses cameras ①

located in the front grille, on the vehicle's outside mirrors and one just above the vehicle's license plate.

## INTELLIGENT AROUND VIEW MONITOR SYSTEM OPERATION

With the power switch in the "ON" position, move the shift lever to the "R" (Reverse) position or push the CAMERA button to operate the Intelligent Around View Monitor.

When the camera is first activated with the bird's-eye view in the display, a red icon will flash on the screen. This indicates that the parking sensor (sonar) system is activated. The gray icon will flash when the parking sensor (sonar) system is turned off. For additional information on the parking sensor (sonar) system, refer to "Camera aiding parking sensor (sonar) function (models with Intelligent Around View Monitor)" (P.4-10).

The screen displayed on the Intelligent Around View Monitor will automatically return to the previous screen 3 minutes after the CAMERA button has been pushed with the shift lever in a position other than the "R" (Reverse) position.

### Available views



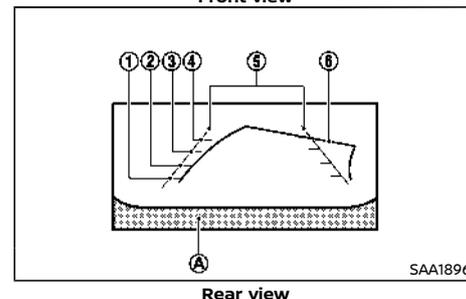
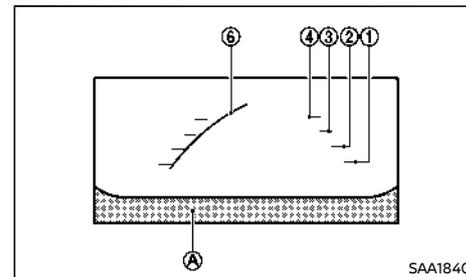
#### WARNING:

- The distance guide lines and the vehicle width lines should be used as a reference only when the vehicle is on a paved, level surface. The apparent distance viewed on the monitor may be different than the actual distance between the vehicle and displayed objects.
- Use the displayed lines and the bird's-eye view as a reference. The lines and the bird's-eye view are greatly affected by the number of occupants, cargo, fuel

level, vehicle position, road condition and road grade.

- If the tires are replaced with different sized tires, the predictive course lines and the bird's-eye view may be displayed incorrectly.
- When driving the vehicle up a hill, objects viewed in the monitor are further than they appear. When driving the vehicle down a hill, objects viewed in the monitor are closer than they appear.
- Objects in the rear view will appear visually opposite compared to when viewed in the monitor and outside mirrors.
- Use the mirrors or actually look to properly judge distances to other objects.
- On a snow-covered or slippery road, there may be a difference between the predictive course lines and the actual course line.
- The vehicle width and predictive course lines are wider than the actual width and course.
- The displayed lines may appear slightly off to the right, because the rearview camera is not installed in the rear center of the vehicle.

### Front and rear view:



Guiding lines, which indicate the vehicle width and distances to objects with reference to the vehicle body line (A), are displayed on the monitor.

#### Distance guide lines:

Indicate distances from the vehicle body.

- Red line ① : approximately 0.5 m (1.5 ft)
- Yellow line ② : approximately 1 m (3 ft)
- Green line ③ : approximately 2 m (7 ft)
- Green line ④ : approximately 3 m (10 ft)

#### Vehicle width guide lines ⑤ :

Indicate the vehicle width when backing up.

#### **Predictive course lines ⑥ :**

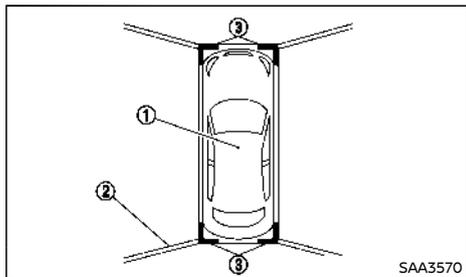
Indicate the predictive course when operating the vehicle. The predictive course lines will move depending on how much the steering wheel is turned. The predictive course lines in the rear view will not be displayed while the steering wheel is in the straight ahead position.

The front view will not be displayed when the vehicle speed is above 10 km/h (6 MPH).

#### **NOTE:**

**When the monitor displays the front view and the steering wheel turns about 90 degrees or less from the neutral position, both the right and left predictive course lines ⑥ are displayed. When the steering wheel turns about 90 degrees or more, the predictive course line is displayed only on the opposite side of the turn.**

#### **Bird's-eye view:**



The bird's-eye view shows the overhead view of the vehicle which helps confirm the vehicle position.

The vehicle icon ① shows the position of the vehicle. Note that the apparent distance be-

tween objects viewed in the bird's-eye view may differ somewhat from the actual distance to the vehicle.

The areas that the cameras cannot cover ② are indicated in black. The non-viewable area ② is highlighted in yellow for 3 seconds after the bird's-eye view is displayed. It will be shown only the first time after the power switch is placed in the "ON" position.

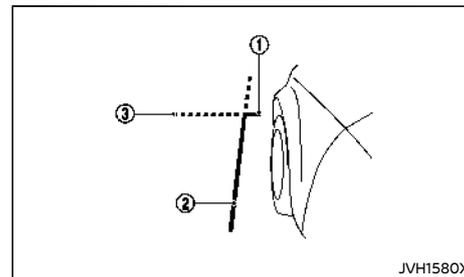
The amber markers ③ are displayed when the parking sensor (sonar) is turned off.



#### **WARNING:**

- **Objects in the bird's-eye view will appear further than the actual distance.**
- **Tall objects, such as a curb or vehicle, may be misaligned or not displayed at the seam of the views.**
- **Objects that are above the camera cannot be displayed.**
- **The view for the bird's-eye view may be misaligned when the camera position alters.**
- **A line on the ground may be misaligned and is not seen as being straight at the seam of the views. The misalignment will increase as the line proceeds away from the vehicle.**

#### **Front-side view:**



#### **Guiding lines:**

Guiding lines that indicate the approximate width and the front end of the vehicle are displayed on the monitor.

The front-of-vehicle line ① shows the front part of the vehicle.

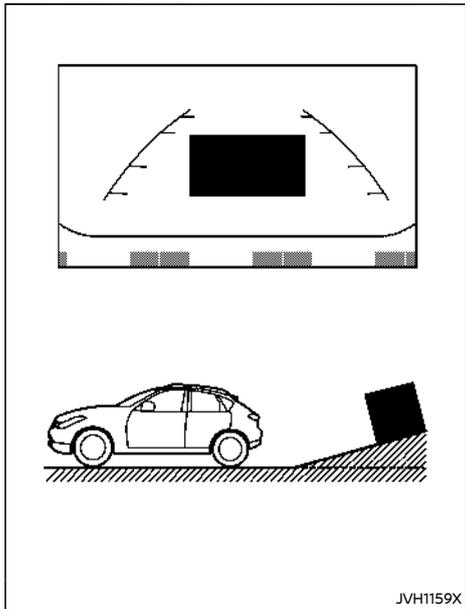
The side-of-vehicle line ② shows the approximate vehicle width including the outside mirror.

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**

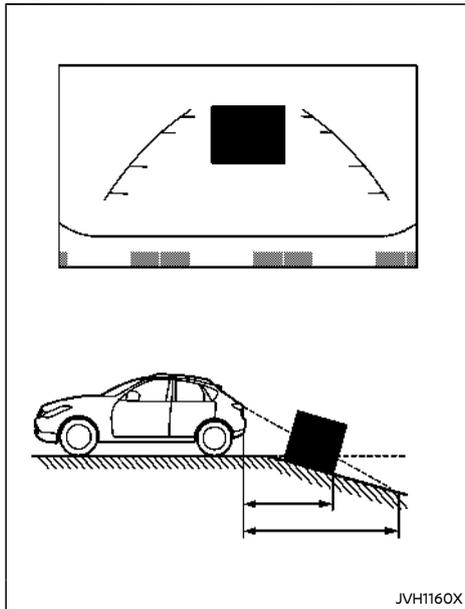
The displayed guide lines and their locations on the ground are for approximate reference only. Objects on uphill or downhill surfaces or projecting objects will be actually located at distances different from those displayed in the monitor relative to the guide lines (refer to illustrations). When in doubt, turn around and view the objects as you are backing up, or park and exit the vehicle to view the positioning of objects behind the vehicle.

### Backing up on a steep uphill



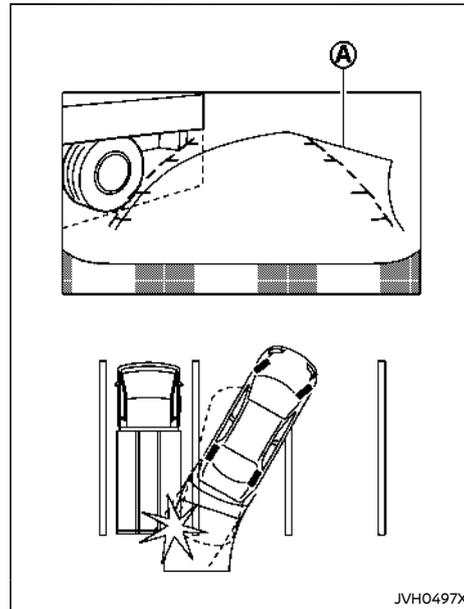
When moving the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. Note that any object on the hill is further than it appears on the monitor.

### Backing up on a steep downhill



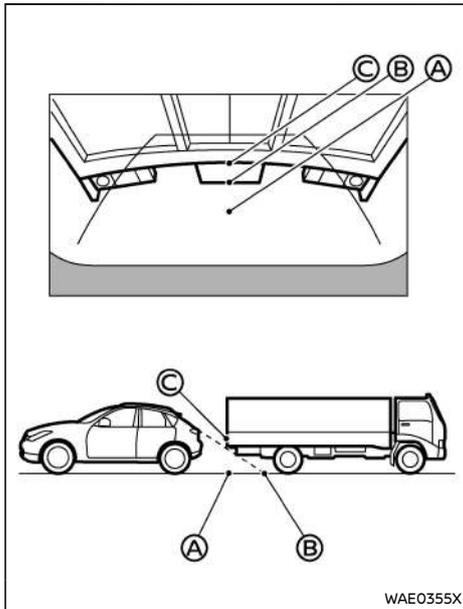
When moving the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown further than the actual distance. Note that any object on the hill is closer than it appears on the monitor.

### Backing up near a projecting object



The predictive course lines (A) do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual moving course.

## Backing up behind a projecting object

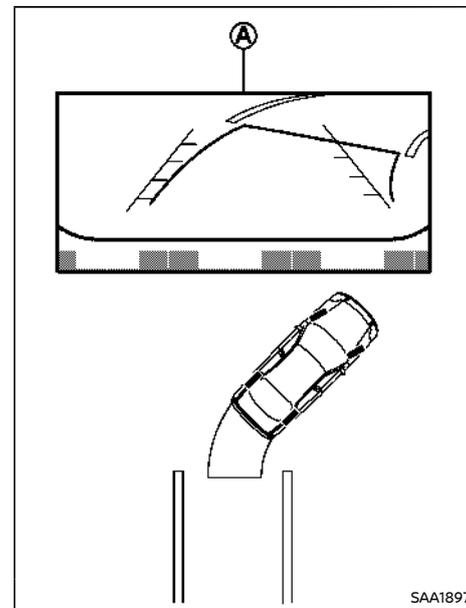


The position ③ is shown farther than the position ② in the display. However, the position ③ is actually at the same distance as the position ①. The vehicle may hit the object when backing up to the position ① if the object projects over the actual backing up course.

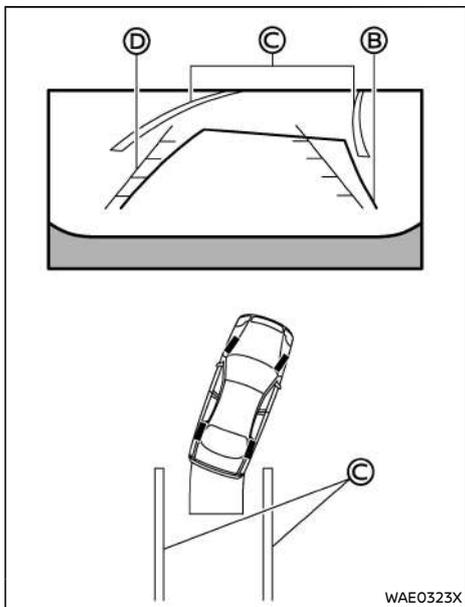
## HOW TO PARK WITH PREDICTIVE COURSE LINES

### **WARNING:**

- If the tires are replaced with different sized tires, the predictive course lines may be displayed incorrectly.
- On a snow-covered or slippery road, there may be a difference between the predictive course lines and the actual course line.
- If the battery is disconnected or becomes discharged, the predictive course lines may be displayed incorrectly. If this occurs, please perform the following procedures:
  - Turn the steering wheel from lock to lock while the e-POWER system is running.
  - Drive the vehicle on a straight road for more than 5 minutes.



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



## HOW TO SWITCH THE DISPLAY

With the power switch in the "ON" position, push the CAMERA button or move the shift lever to the "R" (Reverse) position to operate the Intelligent Around View Monitor.

The Intelligent Around View Monitor displays different split screen views depending on the position of the shift lever. Push the CAMERA button to switch between the available views.

If the shift lever is in the "R" (Reverse) position, the available views are:

- Bird's-eye view/rear view split screen
- Front-side view/rear view split screen
- Rear view screen

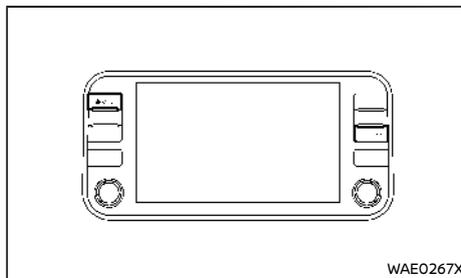
If the vehicle is placed in the "P" (Park) or "D" (Drive) position, the available views are:

- Bird's-eye view/front view split screen
- Front-side view/front view split screen

The display will switch from the Intelligent Around View Monitor screen when:

- The shift lever is in the "D" (Drive) position and the vehicle speed increases above approximately 10 km/h (6 MPH).
- A different screen is selected.

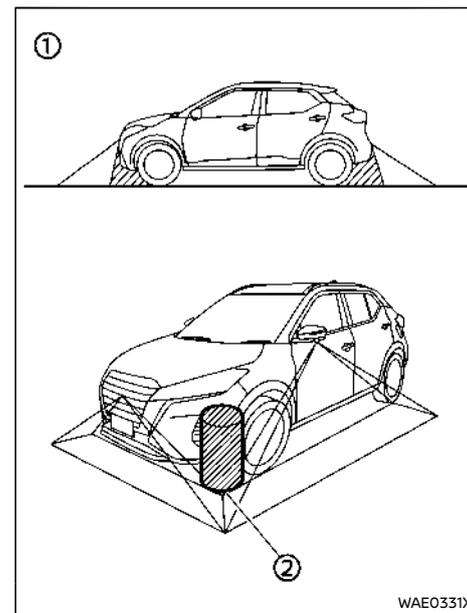
## ADJUSTING THE SCREEN



3. Slowly back up the vehicle adjusting the steering wheel so that the predictive course lines (B) enter the parking space (C).
4. Maneuver the steering wheel to make the vehicle width guide lines (B) parallel to the parking space (C) while referring to the predictive course lines.
5. When the vehicle is parked in the space completely, push the P position switch to engage the "P" (Park) position and apply the parking brake.

1. Push the MENU button and touch the "Settings" key, or push the SETTING button.
2. Touch the "Camera" key and then touch the "Display Settings" key.
3. Touch the "Brightness", "Contrast", "Tint", "Color"/"Colour" or "Black Level" key.
4. Adjust the item by touching the "-" or "+" key on the touch screen display.

## INTELLIGENT AROUND VIEW MONITOR SYSTEM LIMITATIONS





## WARNING:

Listed below are the system limitations for Intelligent Around View Monitor. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

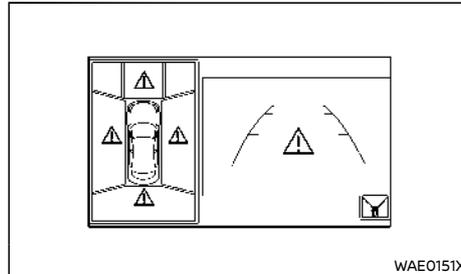
- Do not use the Intelligent Around View Monitor with the outside mirrors in the stored position, and make sure that the back door is securely closed when operating the vehicle using the Intelligent Around View Monitor.
- The apparent distance between objects viewed on the Intelligent Around View Monitor differs from the actual distance.
- The cameras are installed on the front grille, the outside mirrors and above the rear license plate. Do not put anything on the vehicle that covers the cameras.
- When washing the vehicle with high pressure water, be sure not to spray it around the cameras. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.
- Do not strike the cameras. They are precision instruments. Doing so could cause a malfunction or cause damage resulting in a fire or an electric shock.

There are some areas where the system will not show objects and the system does not warn of moving objects. When in the front or rear view display, an object below the bumper or on the ground may not be viewed ①. When in the bird's-eye view, a tall object near the seam ② of the camera viewing areas will not appear in the monitor.

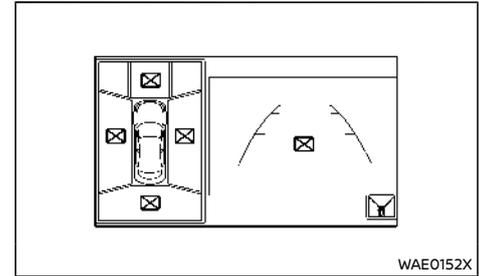
The following are operating limitations and do not represent a system malfunction:

- There may be a delay when switching between views.
- When the temperature is extremely high or low, the screen may not display objects clearly.
- When strong light directly shines on the camera, objects may not be displayed clearly.
- The screen may flicker under fluorescent light.
- The colors of objects on the Intelligent Around View Monitor may differ somewhat from the actual color of objects.
- Objects on the Intelligent Around View Monitor may not be clear and the color of the object may differ in a dark environment.
- There may be differences in sharpness between each camera view of the bird's-eye view.
- Do not use wax on the camera lens. Wipe off any wax with a clean cloth that has been dampened with a diluted mild cleaning agent, then wipe with a dry cloth.

## System temporarily unavailable

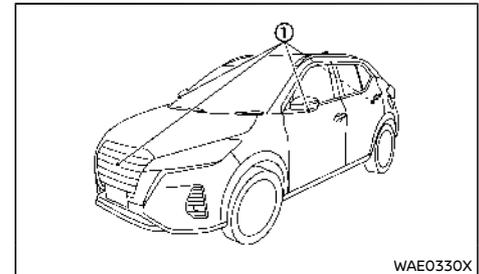


When the "▲" icon is displayed on the screen, there are abnormal conditions in the Intelligent Around View Monitor. This will not hinder normal driving operation but the system should be inspected. It is recommended that you visit a NISSAN dealer for this service.



When the "⊗" icon is displayed on the screen, the camera image may be receiving temporary electronic disturbances from surrounding devices. This will not hinder normal driving operation but the system should be inspected if it occurs frequently. It is recommended that you visit a NISSAN dealer for this service.

## SYSTEM MAINTENANCE



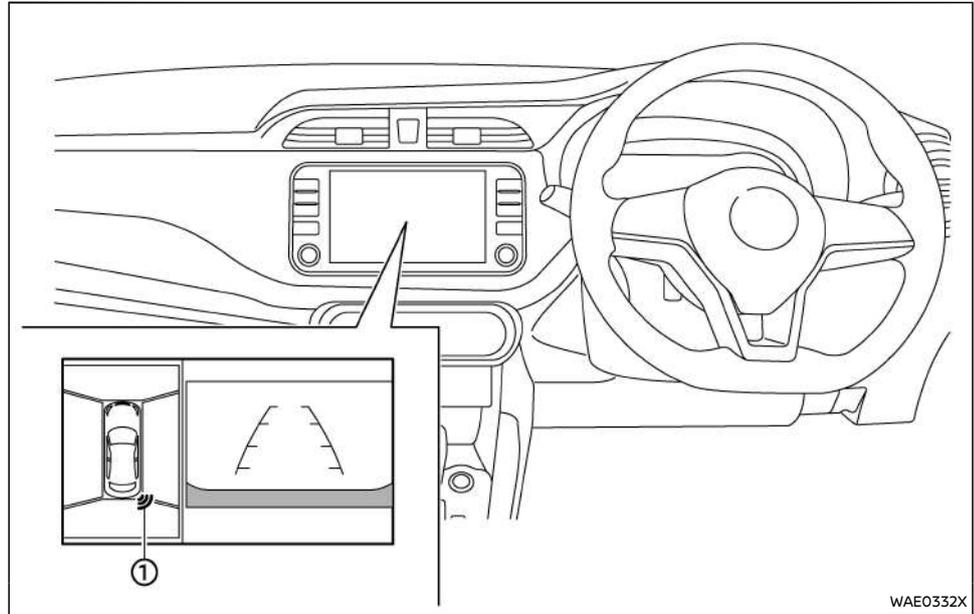
## CAMERA AIDING PARKING SENSOR (sonar) FUNCTION (models with Intelligent Around View Monitor)



### CAUTION:

- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.
- Do not damage the cameras as the monitor screen may be adversely affected.

If dirt, rain or snow accumulates on any of the cameras ①, the Intelligent Around View Monitor may not display objects clearly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.



WAE0332X

1. Parking sensor (sonar) indicator



### WARNING:

Failure to follow the warnings and instructions for proper use of the parking sensor (sonar) function as outlined in this section could result in serious injury or death.

- The parking sensor (sonar) is a convenience feature. It is not a substitute for proper parking.

- This function is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle.
- The driver is always responsible for safety during parking and other maneuvers.
- Always look around and check that it is safe to move before parking.
- Read and understand the limitations of the parking sensor (sonar) as contained in this section.

The parking sensor (sonar) function helps to inform the driver of large stationary objects around the vehicle when parking by issuing an audible and visual alert.

## PARKING SENSOR (sonar) SYSTEM OPERATION

When the camera is first activated with the bird's-eye view in the display, a red icon will flash on the Intelligent Around View Monitor screen. This indicates that the parking sensor (sonar) system is activated.

The system gives the tone for rear objects when the shift lever is in the "R" (Reverse) position.

When the camera image is shown on the touch screen display, the system shows the parking sensor (sonar) indicator regardless of the shift lever position.

The system is deactivated at speeds above 10 km/h (6 MPH). It is reactivated at lower speeds.

The colors of the parking sensor (sonar) indicators and the distance guide lines indicate different distances to the object.

When the objects are detected, the indicator (green) appears and blinks and the tone sounds intermittently. When the vehicle moves closer to the object, the color of the indicator turns yellow and the rate of the blinking and the rate of the tone increase. When the vehicle is very close to the object, the indicator stops blinking and turns red, and the tone sounds continuously.

The intermittent tone will stop after 3 seconds when an object is detected by only the corner sensor and the distance does not change.

The tone will stop when the object is no longer near the vehicle.

## TURNING ON AND OFF THE PARKING SENSOR (sonar) FUNCTION

To deactivate the parking sensor (sonar) system temporarily, see "Parking sensor (sonar) system OFF switch" (P.5-48).

To set up the parking sensor (sonar) function to your preferred settings, see "Parking sensor (sonar) system setting" (P.5-49).

## PARKING SENSOR (sonar) SYSTEM LIMITATIONS



### WARNING:

Listed below are the system limitations for the parking sensor (sonar) function. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- **Inclement weather or ultrasonic sources such as an automatic car wash, a truck's compressed-air brakes or a pneumatic drill may affect the function of the system, including reduced performance or a false activation.**
- **The system is not designed to prevent contact with small or moving objects.**
- **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 may not detect the following objects:**
  - Fluffy objects such as snow, cloth, cotton, grass or wool.
  - Thin objects such as rope, wire or chain.

– **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 objects 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.**

## System temporarily unavailable

When the amber markers are displayed at the corners of the vehicle icon and the function cannot be activated from the "Driver Assistance" settings (the setting items are grayed out), the parking sensor (sonar) system may be malfunctioning. (See "Driver Assistance" (P.2-15).)

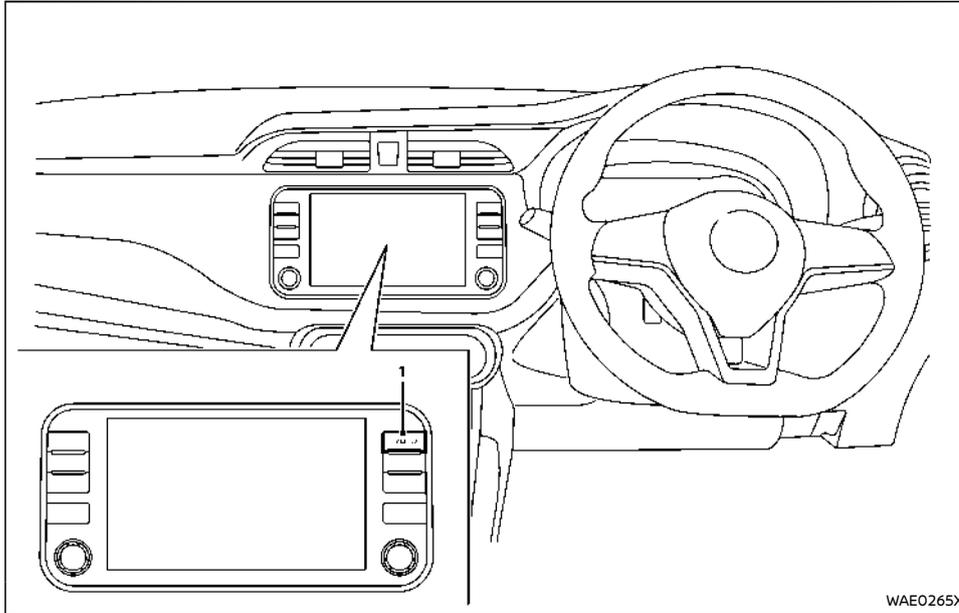
## SYSTEM MAINTENANCE



### CAUTION:

**Keep the surface of the parking sensors (sonar) free from accumulations of snow, ice and dirt. Do not scratch the surface of the parking sensors (sonar) when cleaning. If the parking sensors (sonar) are covered, the accuracy of the parking sensor (sonar) function will be diminished.**

## MOVING OBJECT DETECTION (MOD) FUNCTION (models with Intelligent Around View Monitor)



1. CAMERA button



### WARNING:

Failure to follow the warnings and instructions for proper use of the Moving Object Detection (MOD) system could result in serious injury or death.

- The MOD system is not a substitute for proper vehicle operation and does not prevent contact with the objects surrounding the vehicle. When maneuvering,

always use the outside mirror and inside rearview mirror and turn and look to check the surroundings to make sure it is safe to maneuver.

- The system is deactivated at speeds above 8 km/h (5 MPH). It is reactivated at lower speeds.
- The MOD system is not designed to detect surrounding stationary objects.

The MOD system can inform the driver of moving objects near the vehicle when driving

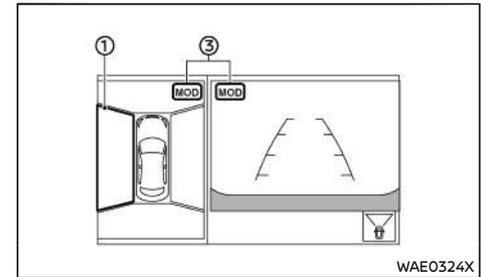
out of garages, maneuvering in parking lots and in other such instances.

The MOD system detects moving objects by using image processing technology on the image shown in the display.

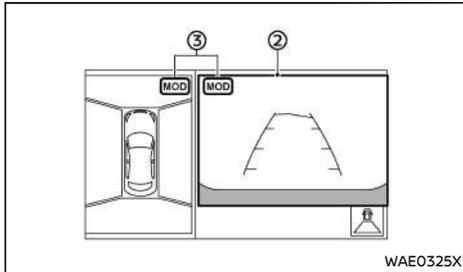
### MOD SYSTEM OPERATION

The MOD system will turn on automatically under the following conditions:

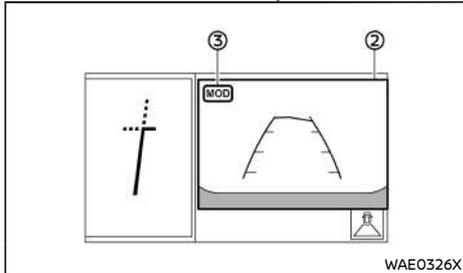
- When the shift lever is in the "R" (Reverse) position.
- When the CAMERA button is pushed to activate the camera view on the display.
- When vehicle speed decreases below approximately 8 km/h (5 MPH) and the camera screen is displayed.



Front and bird's-eye views



Rear and bird's-eye views



Rear and front-side views

The MOD system operates in the following conditions when the camera view is displayed:

- When the vehicle is placed in the "P" (Park) or "N" (Neutral) position and the vehicle is stopped, the MOD system detects moving objects in the bird's-eye view. The MOD system will not operate if any of the doors are open.
- When the shift lever is in the "D" (Drive) position and the vehicle speed is below approximately 8 km/h (5 MPH), the MOD system detects moving objects in the front view.

- 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. The MOD system will not operate if the back door is open.

The MOD system does not detect moving objects in the front-side view. The MOD icon is not displayed on the screen when in this view.

When the MOD system detects moving objects near the vehicle, a chime will be heard and a yellow frame will be displayed on the view where the objects are detected. While the MOD system continues to detect moving objects, the yellow frame continues to be displayed.

#### NOTE:

**While the Rear Cross Traffic Alert chime (if equipped) is beeping, the MOD system does not chime.**

In the bird's-eye view, the yellow frame ① is displayed on each camera image (front, rear, right, left) depending on where moving objects are detected.

The yellow frame ② is displayed on each view in the front view and rear view modes.

A blue MOD icon ③ is displayed in the view where the MOD system is operative. A gray MOD icon ③ is displayed in the view where the MOD system is not operative.

If the MOD system is turned off, the MOD icon ③ is not displayed.

## TURNING THE MOD SYSTEM ON OR OFF

The MOD system can be turned on and off.

See "Driver Assistance" (P.2-15).

## MOD SYSTEM LIMITATIONS



### WARNING:

Listed below are the system limitations for the MOD. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- Excessive noise (for example, audio system volume or open vehicle window) will interfere with the chime sound, and it may not be heard.
- The MOD system performance will be limited according to environmental conditions and surrounding objects such as:
  - When there is low contrast between background and the moving objects.
  - When there is a blinking source of light.
  - When strong light such as another vehicle's headlight or sunlight is present.
  - When there is dirt, water drops or snow on the camera lens.
  - When the position of the moving objects in the display is not changed.
- The MOD system might detect flowing water droplets on the camera lens, white smoke from the muffler, moving shadows, etc.
- The MOD system may not function properly depending on the speed, direction, distance or shape of the moving objects.

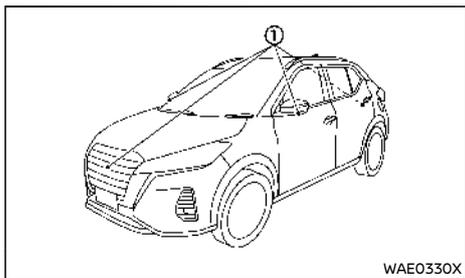
- If your vehicle sustains damage to the parts where the camera is installed, leaving it misaligned or bent, the sensing zone may be altered and the MOD system may not detect objects properly.
- When the temperature is extremely high or low, the screen may not display objects clearly. This is not a malfunction.

**NOTE:**

The blue icon will change to orange when the system is malfunctioning.

If the icon continues to illuminate in orange, have the MOD system checked. It is recommended that you visit a NISSAN dealer for this service.

**SYSTEM MAINTENANCE**



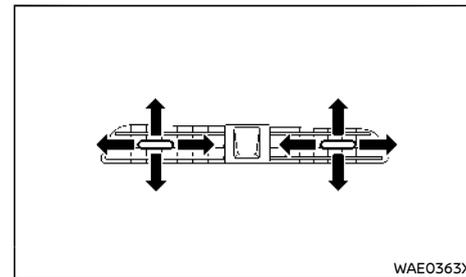
**CAUTION:**

- Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration.
- Do not damage the cameras as the monitor screen may be adversely affected.

If dirt, rain or snow accumulates on any of the cameras ①, the MOD system may not operate properly. Clean the camera by wiping with a cloth dampened with a diluted mild cleaning agent and then wiping with a dry cloth.

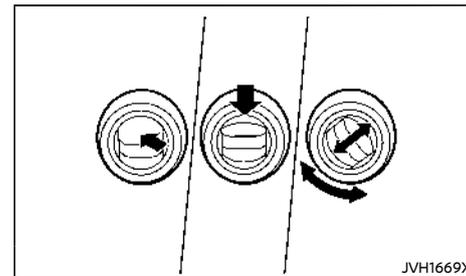
**VENTILATORS**

**CENTER VENTILATORS**



Open or close the vents, and adjust the air flow direction of the ventilators by moving the center knob as illustrated.

**SIDE VENTILATORS**



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

## COOLER AND AIR CONDITIONER



### WARNING:

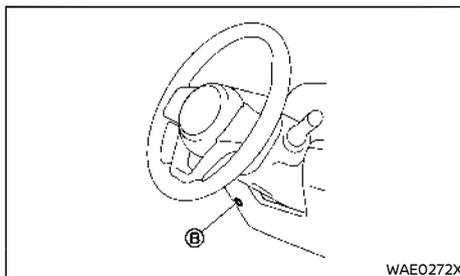
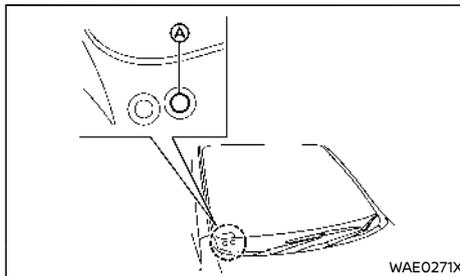
- The cooler and air conditioner operates only when the e-POWER system is running.
- Children or adults who would normally require supervision should never be left alone in the vehicle. Pets should not be left alone either. They could unknowingly activate switches or controls and inadvertently become involved in a serious accident and injure themselves. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.
- Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.
- Do not adjust the cooler while driving so that full attention may be given to vehicle operation.

The cooler operates when the e-POWER system is running. The air blower will operate even if the e-POWER system is turned off and the power switch is in the "ON" position.

### NOTE:

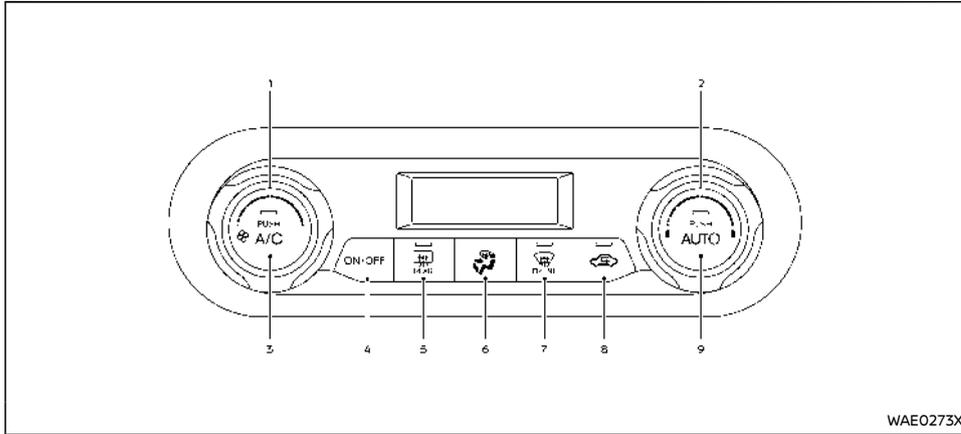
- Odors from inside and outside the vehicle can build up in the cooler unit. Odor can enter the passenger compartment through the vents.
- When parking, set the cooler to turn off air recirculation to allow fresh air into the passenger compartment. This should help reduce odors inside the vehicle.

### OPERATING TIPS:



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

## AUTOMATIC COOLER



1. Fan speed control "  " dial
2. Temperature control dial
3. "A/C" button
4. "ON-OFF" button
5. Rear defogger "  " button (See "Defogger switch" (P.2-32).)
6. Air flow control button
7. Front defogger "  " button
8. Air intake control "  " button
9. "AUTO" button

### Automatic operation (AUTO)

The AUTO mode may be used year-round as the system automatically controls to a constant temperature, air flow distribution and fan speed.

### Cooling:

1. Push the "AUTO" button. (The "AUTO" indicator light will illuminate.)
2. If the "A/C" indicator light is not illuminated, push the "A/C" button. (The "A/C" indicator light will illuminate.)
3. Turn the temperature control dial to set the desired temperature.
4. Push the air intake control "  " button for approximately 2 seconds. The "  " indicator light will flash, and then the air intake will be controlled automatically.

A visible mist may be seen coming from the ventilators in hot, humid conditions as the air is cooled rapidly. This does not indicate a malfunction.

### Dehumidified defogging:

1. Push the front defogger "  " button. (The "  " indicator light will illuminate.)
2. Turn the temperature control dial to set the desired temperature.
  - To quickly remove fog from the outside surface of the windshield, set the temperature using the temperature control dial and set the fan speed using the fan speed control "  " dial at their maximum levels.
  - After the windshield is cleared, push the front defogger "  " button again.
  - When the front defogger "  " button is pushed, the air conditioner will automatically turn on when the outside air temperature is above  $-2^{\circ}\text{C}$  ( $28^{\circ}\text{F}$ ) to defog the windshield. The outside air circulation mode will be selected to improve the defogging performance.

### Manual operation

The manual mode can be used to control the cooler to your preferred settings.

### Fan speed control:

Turn the fan speed control "  " dial clockwise to increase the fan speed.

Turn the fan speed control "  " dial counter-clockwise to decrease the fan speed.

### Air flow control:

Push the air flow control button to change the air flow outlets.

-  — Air flows mainly from the center and side ventilators.
-  — Air flows mainly from the center and side ventilators and foot outlets.
-  — Air flows mainly from the foot outlets.
-  — Air flows mainly from the defogger and foot outlets.

### Temperature control:

Turn the temperature control dial to set the desired temperature.

### Air intake control:

The air intake control mode will change each time the air intake control "" button is pushed.

- When the indicator light is turned on, the air recirculates inside the vehicle.
- When the indicator light is turned off, the air flow is drawn from outside the vehicle.
- To switch to the automatic control mode, push the air intake control "" button for approximately 2 seconds. The "" indicator light will flash, and then the air intake will be controlled automatically.

### Turning the system off:

Push the "ON-OFF" button to turn off the cooler.

## SERVICING AIR CONDITIONER



### WARNING:

**The air conditioner system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with the proper equipment.**

The air conditioner system in your vehicle is charged with a refrigerant designed with the environment in mind.

**This refrigerant will not harm the earth's ozone layer.** However, it may contribute in a small part to global warming.

Special charging equipment and lubricant are required when servicing your vehicle's air conditioner. Using improper refrigerants or lubricants will cause severe damage to the air conditioner system. (See "Air conditioner system refrigerant and lubricant" (P.9-3).)

A NISSAN dealer will be able to service your environmentally friendly air conditioner system.

### Air conditioner filter

The air conditioner system is equipped with a filter which collects dust. To make sure the system cools, defogs and ventilates efficiently, replace the filter in accordance with the specified maintenance intervals listed in the separate maintenance booklet. To replace the filter, contact a NISSAN dealer.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the cooler.

## AUDIO SYSTEM (models without NissanConnect system)

For models with NissanConnect system, see the separate NissanConnect Owner's manual.

### AUDIO OPERATION PRECAUTIONS



### WARNING:

**Do not adjust the audio system while driving so that full attention may be given to vehicle operation.**

### Radio

- Radio reception is affected by station signal strength, distance from radio transmitters, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.
- Using a cellular phone in or near the vehicle may influence radio reception quality.

### USB (Universal Serial Bus) connection port



### WARNING:

**Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.**



### CAUTION:

- **Do not force the USB device into the USB connection port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB connection port.**

- **Do not grab the USB connection port cover (if equipped) when pulling the USB device out of the 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.**

Lightning is a trademark of Apple Inc.

- 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.
- Audiobooks may not play in the same order as they appear on an iPod.

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.

This system supports various USB memory devices, USB hard drives and iPod players. Some USB devices may not be supported by this system. Partitioned USB devices may not be played correctly.

**General notes for USB use:**

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

**Notes for iPod use:**

"Made for iPod", "Made for iPhone", and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards.

Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards.

Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

iPad, iPhone, iPod, iPod classic, iPod nano, iPod shuffle, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries.

## USB memory with MP3/WMA/AAC

### Terms:

- **MP3** — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well-known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track from CD can reduce the file size by approximately 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. MP3 compression removes the redundant and irrelevant parts of a sound signal that the human ear doesn't hear.
- **WMA** — Windows Media Audio (WMA)\* is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s of the same level of quality.

This product is protected by certain intellectual property rights of Microsoft Corporation and third parties. Use or distribution of such technology outside of this product is prohibited without a license from Microsoft or an authorized Microsoft subsidiary and third parties.
- **AAC** — Advanced Audio Coding (AAC) is a compressed audio format. AAC offers greater file compression than MP3 and enables music file creation and storage at the same quality as MP3.
- **Bit rate** — Bit rate denotes the number of bits per second used by a digital music file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.

- **Sampling frequency** — Sampling frequency is the rate at which the samples of a signal are converted from analog to digital (A/D conversion) per second.
- **Multisession** — Multisession is one of the methods for writing data to media. Writing data once to the media is called a single session, and writing more than once is called a multisession.
- **ID3/WMA Tag** — The ID3/WMA tag is the part of the encoded MP3 or WMA file that contains information about the digital music file such as song title, artist, album title, encoding bit rate, track time duration, etc. ID3 tag information is displayed on the Album/Artist/Track title line on the display.

\* Windows® and Windows Media® are registered trademarks and/or trademarks of Microsoft Corporation in the United States of America and/or other countries.

### Playback order:

- The names of folders not containing MP3/WMA/AAC files are not shown in the display.
- If there is a file in the top level of the USB device, “Root” is displayed.
- The playback order is the order in which the files were written by the writing software, so the files might not be played in the desired order.

**Specification chart:**

	<b>Items</b>	<b>Specification</b>
USB Spec	Standard	USB 2.0 Full-speed
	Device class	Mass Storage Class
File system specification	File system type	FAT12, FAT16, FAT32
	Long file name support	VFAT
	Maximum cluster size	64 kB
	Maximum sector size	4 kB
	Maximum support device memory size	64 GB
	Max folder number support	512
	Max file in one folder	1024 (files and folders)
	Max file in device	65535 files
	Max directory depth	8
WMA Decoder	Standard	Windows Media Audio 7,8,9
	File extension	.wma/ .WMA
	Sampling rate (kHz)	48, 44.1, 32
	Bit rate (kbps)	32-192
MP3 Decoder	Standard	MPEG1,2,2.5 Layer3
	File extension	.MP3 / .mp3
	ID3 TAG Version	Version 2.4, 2.3, 2.2, 1.0
	Sampling rate (kHz)	48, 44.1, 32, 24, 22.05, 16, 11.025
	Bit rate (kbps)	8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, 320 Variable bit-rates (VBR)
AAC Decoder	Standard	MPEG4 AAC
	File extension	.m4a / .M4A
	Sampling rate (kHz)	48, 44.1, 32, 24, 22.05, 16, 11.025
	Bit rate (kbps)	8 - 320

	Items	Specification
Display	Song number	1 to 999
	Folder number	1 to 512
	Playtime	00'00" - 99'59"
	ID3 tag language	English/Chinese (Chinese font GB18030)
Others	Insert USB to Play time	Less than 10 seconds
	Files changing time	Less than 2 seconds
Features	File Up/Down	Available
	Folder Up/Down	Available
	Folder Repeat	Available
	File Repeat	Available
	All Folders Random	Available
	Folder Random	Available
	FF/REW	5 times (3 seconds) 30 times (after 3 seconds)
	Scan	-
	Folder menu list	Available
	File menu list	Available
File search	Available	
Folder search	Available	

### Troubleshooting guide:

Symptom	Cause and Countermeasure
Cannot play	USB device was inserted incorrectly.
	Check if there is condensation inside the player, and if there is, wait until the condensation is gone (about 1 hour) before using the player.
	If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.
	If there is a mixture of music files and compressed audio files on a USB device, only the music files will be played.
	Files with extensions other than ".M4A", ".MP3", ".WMA", ".m4a", ".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 file was generated in an irregular format. This may occur depending on the variation or the setting of compressed audio writing applications or other text editing applications.
	Check if the USB device is protected by copyright.
It takes a relatively long time before the music starts playing.	If there are many folder or file levels on the USB device, some time may be required before the music starts playing.
Music cuts off or skips	The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications of the system. Try using the slowest writing speed.
Skipping with high bit rate files	Skipping may occur with large quantities of data, such as for high bit rate data.
Move immediately to the next song when playing.	If an unsupported compressed audio file has been given a supported extension like .MP3, or when playback is prohibited by copyright protection, the player will skip to the next song.
The songs do not play back in the desired order.	The playback order is the order in which the files were written by the writing software, so the files might not playback in the desired order.
	Random/Shuffle may be active on the audio system or on a USB device.

## Bluetooth® audio player

- Wireless LAN (Wi-Fi) and the Bluetooth® functions share the same frequency band (2.4 GHz). Using the Bluetooth® and the wireless LAN functions at the same time may slow down or disconnect communication and cause undesired noise. It is recommended that you turn off the wireless LAN (Wi-Fi) when using the Bluetooth® functions.
- Some Bluetooth® audio devices may not be used with this system. For detailed information about Bluetooth® audio devices that are available for use with this system, contact a NISSAN dealer.
- Before using a Bluetooth® audio system, the initial registration process for the audio device is necessary.
- Operation of the Bluetooth® audio system may vary depending on the audio device that is connected. Confirm the operation procedure before use.
- The playback of Bluetooth® audio will be paused under the following conditions. The playback will be resumed after the following conditions are completed.
  - while using a hands-free phone
  - while checking a connection with a cell 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

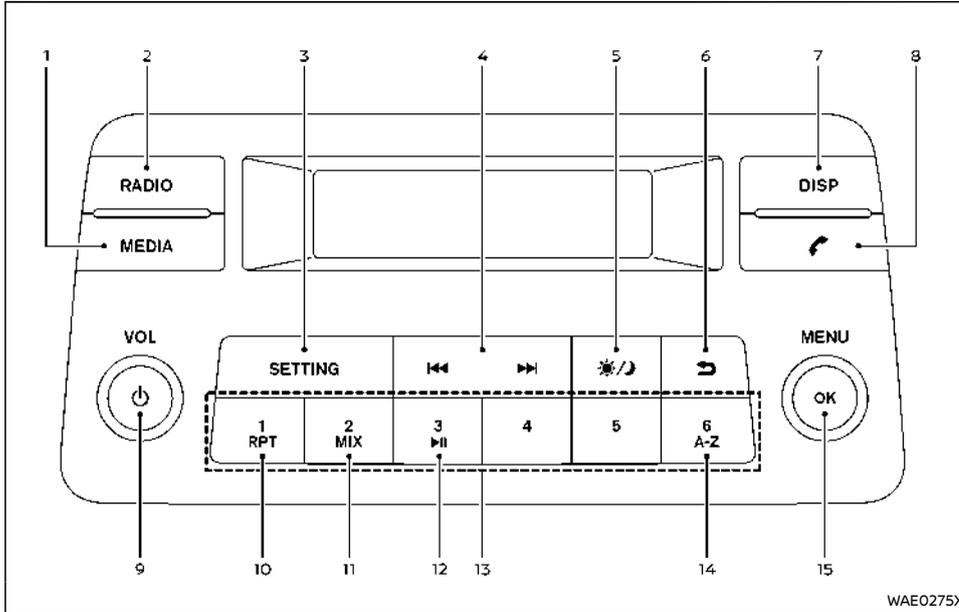
may discharge quicker than usual.

- This system is compatible with the Bluetooth® AV profile (A2DP and AVRCP).



Bluetooth® is a trademark owned by Bluetooth SIG, Inc., and licensed to Shenzhen Hangsheng Electronics Co., Ltd.

## AM-FM RADIO WITH USB (Universal Serial Bus) CONNECTION PORT



- |                          |                            |
|--------------------------|----------------------------|
| 1. MEDIA button          | 9. Power/VOL (volume) dial |
| 2. RADIO button          | 10. RPT (repeat) button    |
| 3. SETTING button        | 11. MIX button             |
| 4. Seek/track button     | 12. Mute/Pause button      |
| 5. Day/Night button      | 13. Station memory buttons |
| 6. Back button           | 14. A-Z button             |
| 7. DISP (display) button | 15. OK/MENU dial           |
| 8. Phone button          |                            |

## Audio main operation

The audio system operates when the power switch is placed in the "ON" or "ACC" position.

### Power/VOL dial:

#### Power ON/OFF:

To turn on the audio system, push the Power/VOL dial.

The system will turn on in the mode, which was used immediately before the system was turned off.

To turn off the audio system, push the Power/VOL dial.

#### Volume control:

To control the volume, turn the Power/VOL dial.

Turn the Power/VOL dial clockwise to make the sound louder.

Turn the Power/VOL dial counterclockwise to make the sound quieter.

#### OK/MENU dial:

Push the OK/MENU dial to display the current audio source list or the FM list.

Turn the OK/MENU dial to select displaying menu.

#### Back button:

Push the Back button to return to the previous screen.

#### SETTING button:

To configure "Radio", "Audio", "Clock", "Language" or "BT" settings, perform the following procedure:

1. Push the SETTING button.
2. Turn the OK/MENU dial clockwise or counterclockwise, the display will appear in the following order:

Radio ⇄ Audio ⇄ Clock ⇄ Language ⇄ BT

3. Push the OK/MENU dial.

#### **Radio setting:**

Turn the OK/MENU dial to select "Radio" and push the OK/MENU dial.

"Ref. FM List" is displayed. Push the OK/MENU dial to update the FM station list.

#### **Audio setting:**

Turn the OK/MENU dial to select "Audio" and push the OK/MENU dial.

Turn the OK/MENU dial to select the preferred audio setting item and then push the OK/MENU dial.

Turn the OK/MENU dial clockwise or counter-clockwise to select the following items and push the OK/MENU dial to confirm.

The items that can be set for "Audio" are shown below:

- **Sound**

Bass:

Use this control to enhance or attenuate bass response sound.

Treble:

Use this control to enhance or attenuate the treble.

Balance:

Use this control to adjust the balance of the volume between the left and the right speakers.

Fade:

Use this control to adjust the balance of the volume between the front and the rear speakers.

- **AUX In**

Use this control to adjust the volume output from the auxiliary source.

- **Speed Vol. (Volume)**

This mode controls the volume output from the speakers automatically in relation to vehicle speed.

Adjusting the setting to "Off" turns off the speed volume feature.

- **Bass Boost**

Turn on or off the Bass Boost feature which emphasizes the lower audio frequencies.

- **Audio Default**

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.

#### **Clock setting:**

Turn the OK/MENU dial to select "Clock" and push the OK/MENU dial.

Turn the OK/MENU dial to select the preferred clock setting item and then push the OK/MENU dial.

The items that can be set for "Clock" are shown below:

- **Set Time**

Select "Set Time" then adjust the clock as follows:

The hour display will start flashing. Turn the OK/MENU dial to adjust the hour and push the OK/MENU dial. The minute display will start flashing. Turn the OK/MENU dial to adjust the minute and push the OK/MENU dial to finish the clock adjustment.

- **On/Off**

The clock display can be turned on and off. When "On" is selected, the clock will be displayed. (The clock will keep being displayed even after the power of the audio unit is turned off). When "Off" is selected, the

clock will not be displayed.

- **Format**

Switch the clock display between 24-hour mode and 12-hour clock mode.

#### **Language setting:**

Turn the OK/MENU dial to select "Language" and push the OK/MENU dial.

Select the appropriate language and push the OK/MENU dial. Upon completion, the screen will automatically adapt the language setting.

#### **Bluetooth® setting:**

Turn the OK/MENU dial to select "BT" and push the OK/MENU dial. For details on the Bluetooth® setting, see "Bluetooth® settings" (P.4-32).



#### **Phone button:**

For details on how to use the Phone button, see "Bluetooth® Hands-Free Phone System (models without NissanConnect system)" (P.4-31).



#### **Day/Night button:**

Push the Day/Night button to switch the display brightness between the daytime and nighttime modes.

#### **MEDIA button:**

Push the MEDIA button to play a compatible device when it is connected.

Each time the MEDIA button is pushed, the audio source will change.

The sources that are not available will be skipped except for AUX mode.

## Radio operation

The audio system operates when the power switch is placed in the "ON" or "ACC" position.

### RADIO button:

To change the radio bands, push the RADIO button until the desired band appears.

FM 1 → FM 2 → AM → FM 1

When the RADIO button is pushed for more than 1.5 seconds, the FM station list is updated.

### OK/MENU dial:

To tune to stations manually, turn the OK/MENU dial until the preferred station is selected.

While the FM mode is selected, push the OK/MENU dial to display the FM list. To select a station from the list, turn the OK/MENU dial then push OK/MENU dial.



### Seek/track buttons:

Push the  or  button to seek available station.

When pushing and holding the  or  button, seek tuning will skip the available stations until the button is released.

### Station memory buttons:

During radio reception, pushing the station memory button for less than 1.5 seconds will select the stored radio station.

The audio system can store up to 12 FM station frequencies (6 in each of FM 1 and FM 2 ) and 6 AM station frequencies.

1. Tune to the desired broadcasting station frequency.
2. Push and hold a station memory button  -  until a beep sounds.

3. The indicator will be displayed indicating that the memory is stored properly.
4. Perform steps 1 - 3 for all other memory buttons.

If the battery cable is disconnected, or if the audio fuse blows, the station memory will be erased. If this occurs, reset the desired stations.

## USB (Universal Serial Bus) connection port

Refer to your device manufacturer's owner information regarding the proper use and care of the device.

### USB memory device main operation:

The USB connection port is located on the lower part of the instrument panel. See "USB (Universal Serial Bus) connection port/AUX (auxiliary) input jack" (P.4-29). Connect a USB memory device into the port. The USB memory device will be activated automatically.

If the system was turned off while the USB memory device was playing, pushing the Power/VOL dial will start the USB memory device.

### MEDIA button:

If another audio source is playing and a USB memory device is inserted, push the MEDIA button repeatedly until the display changes to the USB mode.

### DISP button:

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed by pushing the DISP button.

Push the DISP button repeatedly to see further information of the track such as song name, artist name, etc.

## Track details:

Pushing and holding the DISP button will turn the display into a detailed overview. Push the Back button to return to the display for the main display mode.



### Seek/track buttons:

Pushing the  /  button once, the track will skip forward to the next track or backward to the beginning of the current track. Push the  /  button more than once to skip through the tracks.

Push and hold the  /  button to fast-forward or rewind through the track. When the button is released, the track will play at normal playing speed.

### List view:

While the track is being played, push the OK/MENU dial to display the available tracks in a listed view mode. To select a track from the list, or a track to start listening to, turn the OK/MENU dial then push OK/MENU dial.

### Folder browsing:

If the recorded media contains folders with music files, select a track from a folder in the following procedures:

1. Push the OK/MENU dial to display the list view mode.
2. Push the Back button to display the folder list.
3. Turn the OK/MENU dial to select the preferred folder.
4. Push the OK/MENU dial to access the folder. Push the OK/MENU dial again to start playing the first track or turn the OK/MENU dial, and push the OK/MENU dial to select another track.

If the current selected folder contains sub folders, push the OK/MENU dial. A new screen with a list of sub folders will be displayed. Turn the OK/MENU dial to go to the sub folder then push the OK/MENU dial to select it.

To return to the previous folder screen, push the Back button.

#### **Quick search:**

In the list view mode, a quick search can be performed to find a track from the list. Push the A-Z button, turn the OK/MENU dial to the first alphabetic letter of the song title and then push the OK/MENU dial. When found, a list of the available songs will be displayed. Select, and push the OK/MENU dial to play the preferred track.

#### **RPT button:**

Push the RPT button repeatedly to change the play mode as follows:

(Normal) → RPT (Repeat) → (Normal)

#### **MIX button:**

Push the MIX button repeatedly to change the play mode as follows:

(Normal) → MIX → (Normal)

#### **Mute/Pause button:**

Push the  button to pause the track. Push the  button again to play the track.

## iPod player operation

### **Compatibility:**

The system unit is compatible with all devices (past and future) supporting Apple Accessory Protocol on USB link.

It includes (and not limited to):

- iPod classic
- iPod nano (6th and 7th generations)
- iPod touch (4th, 5th and 6th generations)
- iPhone 3G, iPhone 4, iPhone 5, iPhone 5c, iPhone 5s, iPhone 6, iPhone 6 Plus, iPhone 6s, iPhone 7, iPhone 7 Plus, iPhone 8, iPhone 8 Plus, iPhone X, iPhone XR, iPhone XS, iPhone XS Max

The devices listed above may not function depending on the software and firmware versions.

### **Connecting iPod:**

The USB connection port is located on the lower part of the instrument panel. See "USB (Universal Serial Bus) connection port/AUX (auxiliary) input jack" (P.4-29).

Connect an iPod into the port. The iPod will be played automatically.

When the iPod is connected to the vehicle, the iPod music library can only be operated by the vehicle audio controls.

### **MEDIA button:**

If another audio source is playing and an iPod is connected, push the MEDIA button repeatedly until the display changes to the iPod mode.

### **DISP button:**

While a track with recorded music information tags (ID3-tags) is being played, the title of the played track is displayed by pushing the DISP button.

Push the DISP button repeatedly to see further information of the track such as song name, artist name, etc.

Track details:

Pushing and holding the DISP button will turn the display into a detailed overview. To return to the main display, push the Back button.

### **Seek/track buttons:**

When the  button is pushed once, the track will skip forward to the next track or backward to the beginning of the current track. Push the  button more than once to skip through the tracks.

Push and hold  button to fast-forward or rewind the track. When the button is released, the iPod will return to normal play speed.

### **Quick search:**

When the list screen is shown on the display, a quick search can be performed to find a track from the list. Push the A-Z button, turn the OK/MENU dial to the first alphabetic letter of the song title and then push the OK/MENU dial. When found, a list of the available songs will be displayed. Select, and push the OK/MENU dial to play the preferred track.

#### **RPT button:**

Push the RPT button repeatedly to change the play mode as follows:

(Normal) → RPT (Repeat) → (Normal)

#### **MIX button:**

Push the MIX button repeatedly to change the play mode as follows:

(Normal) → MIX → (Normal)

#### **▶|| Mute/Pause button:**

Push the ▶|| button to mute the sound. Push the ▶|| button again to unmute the sound.

#### **Bluetooth® audio player operation**

If you have a compatible Bluetooth® audio device that is capable of playing audio files, the device can be connected to the vehicle's audio system so that the audio files on the device play through the vehicle's speakers.

#### **NOTE:**

- **When a Bluetooth® audio device is connected to the system, audio function can only be controlled through the device.**
- **For additional information regarding Bluetooth® audio, refer to the device owner's manual.**

#### **Connecting Bluetooth® audio:**

To connect your Bluetooth® audio device to the vehicle, see "Connecting a device" (P.4-32).

#### **MEDIA button:**

If another audio source is playing and a Bluetooth® audio device is connected, push the MEDIA button repeatedly until the display changes to the Bluetooth® audio mode.



#### **Seek/track buttons:**

When the ◀◀ / ▶▶ button is pushed, the track will skip forward to the next track or backward to the previous track.

#### **OK/MENU dial:**

Turn the OK/MENU dial to skip to the next or the previous track.



#### **Mute/Pause button:**

Push the ▶|| button to mute the sound. Push the ▶|| button again to unmute the sound.

#### **Auxiliary (AUX) device player operation**

The AUX input jack is located on the lower part of the instrument panel. (See "USB (Universal Serial Bus) connection port/AUX (auxiliary) input jack" (P.4-29).) The AUX input jack accepts any standard analog audio input such as from a portable cassette tape/CD player, MP3 player or laptop computer.

NISSAN strongly recommends using a stereo mini plug cable when connecting your music device to the audio system. Music may not play properly when a monaural cable is used.

#### **MEDIA button:**

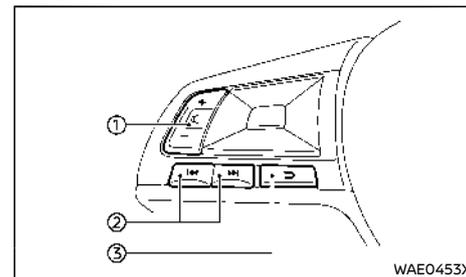
To switch to the AUX mode, push the MEDIA button repeatedly until the AUX mode is selected.



#### **Mute/Pause button:**

Push the ▶|| button to mute the sound. Push the ▶|| button again to unmute the sound.

#### **STEERING WHEEL MOUNTED CONTROLS**



1. Volume control buttons
2. Tuning buttons
3. Back button

#### **Volume control buttons**

Push the + or - button to increase or decrease the volume.



#### **Tuning buttons**

Push the ▶▶ / ◀◀ buttons to select a station or track.

#### **RADIO:**

Push the ▶▶ / ◀◀ buttons to select next or previous station.

#### **iPod or USB device\*:**

- Pushing ▶▶ / ◀◀ shorter Next track or the beginning of the current track (the previous track if the button is pushed immediately after the current track starts playing)

- Pushing ►► / ◀◀ longer  
Forward or rewind

\*: Functions of the buttons may vary depending on the device.

#### Bluetooth® audio:

Push the ►► / ◀◀ buttons to select the next track or to return to the beginning of the current track (the previous track if the button is pushed immediately after the current track starts playing).

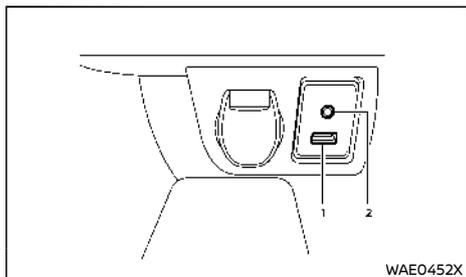


#### Back button

Push the Back button to return to the previous screen or cancel the current selection.

#### USB (Universal Serial Bus) CONNECTION PORT/AUX (auxiliary) INPUT JACK

The USB connection port and AUX input jack are located on the lower part of the instrument panel.



1. USB connection port
2. AUX input jack

#### USB connection port:

Insert USB devices or iPod connectors into this

port.

Refer to your device manufacturer's owner information regarding the proper use and care of the devices to be connected.



#### WARNING:

**Do not connect, disconnect or operate the USB device while driving. Doing so can be a distraction. If distracted you could lose control of your vehicle and cause an accident or serious injury.**



#### CAUTION:

- Do not force the USB device into the USB connection port. Inserting the USB device tilted or up-side-down into the port may damage the port. Make sure that the USB device is connected correctly into the USB connection port.
- Do not grab the USB connection port cover (if equipped) when pulling the USB device out of the 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 while it is connected may damage the port.
- The USB connection port can provide 1 A charging circuit for your device. If the charging circuit of your device is more than 1 A, it is recommended to charge your device by power outlet converter, or your device will lose power quickly sometimes.

#### AUX input jack:

Compatible audio devices, such as some MP3 players, can be connected to the system

through the AUX input jack.



#### WARNING:

**Do not allow the cable or an external device connected to the AUX terminal to affect your driving.**

#### NOTE:

- Depending on the external device, please note that the volume may be louder or quieter than that of the external device.
- When the AUX contacts the plug of the connector cable, noise may be heard.
- The connected external device cannot be operated with the main audio system. The volume and sound quality can be adjusted.
- The song title in the external device cannot be displayed on the audio display.
- For the power source of the external device, use the special battery. The external device cannot be charged with the AUX terminal. Noise may be heard if the radio etc. is operated while charging the battery with the power outlet of the vehicle.

#### USB MEMORY DEVICE CARE

- Do not touch the terminal portion of the USB memory device.
- Do not place heavy objects on the USB memory device.
- Do not store the USB memory device in highly humid locations.
- Do not expose the USB memory device to direct sunlight.
- Do not spill any liquids on the USB memory device.

Refer to the USB memory device Owner's

## ANTENNA

Manual for details.

### SHARK FIN ANTENNA

The shark fin antenna is located on the rear part of the vehicle roof.

## CAR PHONE OR CB RADIO

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



### CAUTION:

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

## Bluetooth® HANDS-FREE PHONE SYSTEM (models without NissanConnect system)

For models with NissanConnect system, see the separate NissanConnect Owner's Manual.

### WARNING:

- Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.
- If you are unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle.

### CAUTION:

To avoid discharging the vehicle battery, use a phone after starting the e-POWER system.

If you have a compatible Bluetooth® enabled cellular phone, you can set up a wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a hands-free telephone call with your cellular phone in the vehicle.

## REGULATORY INFORMATION

### Bluetooth® trademark



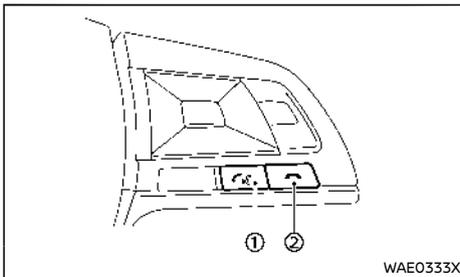
Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Shenzhen Hangsheng Electronics Co., Ltd.

### USING THE SYSTEM

To get the best performance out of the system, keep the interior of the vehicle as quiet as possible. Keep vents pointed away from the microphone and close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.).

### Control buttons and microphone

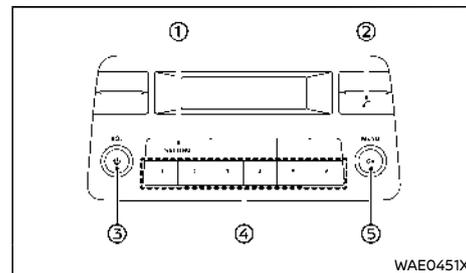
#### Steering wheel mounted control:



1. Phone send  button
2. Phone end  button

#### Control panel buttons:

The control panel is located at the center of the instrument panel.



1. SETTING button
2. Phone  button
3. Power/VOL (Volume) dial
4. Station memory buttons
5. OK/MENU dial

#### Microphone:

Microphone is located near the map light.

## GETTING STARTED

The following procedures will help you get started using the Bluetooth® Hands-Free Phone System.

### Initialization

When the power switch is placed in the "ON" position, the system is initialized, which takes a few seconds. If the phone  button is pushed before the initialization completes, the system may not respond. Wait a few seconds and push the phone  button again to start the Bluetooth® Hands-Free Phone System operation.

## Turning Bluetooth® on

1. Push the SETTING button and select "BT" from the setting menu using the OK/MENU dial.
2. Select "On/Off" using the OK/MENU dial to turn on the Bluetooth® setting.

## Connecting a device

### NOTE:

**To avoid accidents, it is advised that you conduct the connection operation when the vehicle is stationary.**

1. Push the SETTING button and select "BT" from the setting menu using the OK/MENU dial.
2. Select "Connection info" using the OK/MENU dial to display the connection information.
3. Enter the PIN code on the display into the device to be connected.

A notification message will be displayed when the phone is successfully paired.

While the Bluetooth® connection is active, the following icons will appear on the display.

-  Signal strength indicator
  -  Battery status indicator\*
  -  : Bluetooth® connection ON indicator
- \*: If low battery is indicated, the Bluetooth® device must be recharged soon.

### NOTE:

- **Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module.**
- **Necessary steps and prompts may vary depending on the device and the conditions. Some phones may not require a**

### PIN code in order to connect.

- **Upon turning the vehicle power on, the Bluetooth® Hands-Free Phone System will automatically search for previously connected devices in range if the Bluetooth® setting is on.**

## Registering phone numbers

You can register up to 6 commonly used phone numbers. To register a phone number, push and hold one of the station memory buttons while the call is in progress. The registered numbers can be confirmed from "Common phone" in the Bluetooth® setting menu. See "Bluetooth® settings" (P.4-32).

## USING THE SYSTEM

### Making a call

There are two ways to make a call with this system.

- Calling registered phone number:  
Up to six phone numbers can be registered and used to make calls.
  - 1) Push the phone  button to activate the hands-free phone mode.
  - 2) Push one of the six station memory buttons briefly to make a call to the phone number registered to the button.
- Redialing:  
To make a call to the last phone number this system used, push the phone  button twice or push and hold the phone send  button.

## Receiving a call

To answer an incoming call, push the phone  button or the phone send  button.

To reject an incoming call, push and hold the phone  button or push the phone end  button.

## During a call

The user may switch the call from the hands-free mode to the handset mode by pushing the phone  button during a call. Push the phone  button again to switch back to the hands-free mode.

## Ending a call

The user may end a call by pushing and holding the phone  button or pushing the phone end  button.

## VOLUME CONTROL

Turning the Power/VOL dial during a call will control the phone call volume.

## Bluetooth® SETTINGS

Bluetooth® related setting menus can be accessed with the following procedure.

1. Push the SETTING button.
2. Turn the OK/MENU dial to select "BT" and push the OK/MENU dial.

Available items:

- "On/Off"  
Turns the Bluetooth® on or off.
- "Connection info"  
Sets up Bluetooth® connection.
- "Call vol."  
Sets the phone volume.

- "Del. all devices"  
Deletes all devices from the registration.
- "Common phone"  
Displays registered phone numbers. The registered phone numbers can be used to make a call. See "Registering phone numbers" (P.4-32) and "Making a call" (P.4-32).

**MEMO**

# 5 Starting and driving

Before starting e-POWER system .....	5-3	Rear Cross Traffic Alert (RCTA) (if equipped) .....	5-19
Precautions when starting and driving .....	5-3	RCTA system operation .....	5-20
Exhaust gas (carbon monoxide) .....	5-3	How to enable/disable the RCTA system .....	5-21
Three-way catalyst .....	5-4	RCTA system limitations .....	5-22
Care when driving .....	5-4	System temporarily unavailable .....	5-23
Engine cold start period .....	5-4	System malfunction .....	5-23
Loading luggage .....	5-4	System maintenance .....	5-24
Driving in wet conditions .....	5-4	Intelligent Emergency Braking system (if equipped) .....	5-24
Driving in winter conditions .....	5-5	Intelligent Emergency Braking	
Push-button power switch .....	5-5	system operation .....	5-25
Precautions on push-button power		Turning the Intelligent Emergency Braking	
switch operation .....	5-5	system ON/OFF .....	5-26
Intelligent Key system .....	5-5	Intelligent Emergency Braking	
Power switch positions .....	5-6	system limitations .....	5-26
Intelligent Key battery discharge .....	5-6	System temporarily unavailable .....	5-28
Starting the e-POWER system .....	5-7	System malfunction .....	5-29
Driving vehicle .....	5-8	System maintenance .....	5-29
Electric shift control system .....	5-8	Cruise control (if equipped) .....	5-30
Vehicle Dynamic Control (VDC) system .....	5-11	Precautions on cruise control .....	5-30
Vehicle Dynamic Control (VDC) OFF switch .....	5-12	Cruise control operations .....	5-30
Chassis control .....	5-12	Intelligent Cruise Control (ICC) (if equipped) .....	5-31
Intelligent Trace Control .....	5-12	How to select the cruise control mode .....	5-33
Hill start assist system .....	5-13	Vehicle-to-vehicle distance control mode .....	5-33
Blind Spot Warning (BSW) (if equipped) .....	5-14	Conventional (fixed speed) cruise control mode .....	5-42
BSW system operation .....	5-15	Fuel Efficiency and Carbon Dioxide Reduction	
How to enable/disable the BSW system .....	5-16	driving tips .....	5-45
BSW system limitations .....	5-16	Increasing fuel economy and reducing Carbon	
BSW driving situations .....	5-17	Dioxide emissions .....	5-46
System temporarily unavailable .....	5-18	Intelligent Driver Alertness (if equipped) .....	5-46
System malfunction .....	5-19	System operation .....	5-46
System maintenance .....	5-19	Turning the Intelligent Driver Alertness system on	
		and off .....	5-46

System malfunction .....	5-46	Anti-lock Braking System (ABS) .....	5-51
Parking .....	5-47	Using system .....	5-52
Parking sensor (sonar) system (if equipped) .....	5-48	Self-test feature .....	5-52
Parking sensor (sonar) system OFF switch .....	5-48	Normal operation .....	5-52
Parking sensor (sonar) system setting .....	5-49	Vehicle security .....	5-52
Trailer towing .....	5-49	Cold weather driving .....	5-53
Electric power steering .....	5-50	12-volt battery .....	5-53
Brake system .....	5-50	Engine coolant .....	5-53
Brake precautions .....	5-50	Tire equipment .....	5-53
Brake assist .....	5-51	Special winter equipment .....	5-53
		Parking brake .....	5-53
		Corrosion protection .....	5-53

## BEFORE STARTING e-POWER SYSTEM



### WARNING:

The driving characteristics of your vehicle will change remarkably by any additional load and its distribution, as well as by adding optional equipment (trailer coupling, roof racks, etc.). Your driving style and speed must be adjusted according to the circumstances. Especially when carrying heavy loads, your speed must be reduced adequately.

- Make sure the area around the vehicle is clear.
- Visually inspect tires for their appearance and condition. Measure and check the tire pressure for proper inflation.
- Check that all windows and lights are clean.
- Adjust the seat and head restraint positions.
- Adjust the inside and outside rearview mirror positions.
- Fasten your seat belt and ask all passengers to do the same.
- Check that all doors are closed.
- Check the operation of the warning lights when the power switch is placed in the "ON" position.
- Maintenance items in the "8. Maintenance and do-it-yourself" section should be checked periodically.

## PRECAUTIONS WHEN STARTING AND DRIVING



### WARNING:

- Never leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could unknowingly activate switches or controls and inadvertently become involved in a serious accident and injure themselves. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal illness to people or animals.
- Properly secure all luggage to help prevent it from sliding or shifting. Do not place luggage higher than the seatbacks. In a sudden stop or collision, unsecured luggage could cause personal injury.

### NOTE:

During the first few months after purchasing a new vehicle, if you smell strong odors of Volatile Organic Compounds (VOCs) inside the vehicle, ventilate the passenger compartment thoroughly. Open all the windows before entering or while in the vehicle. In addition, when the temperature in the passenger compartment rises, or when the vehicle is parked in direct sunlight for a period of time, turn off the air recirculation mode of the air conditioner and/or open the windows to allow sufficient fresh air into the passenger compartment.

## EXHAUST GAS (carbon monoxide)



### WARNING:

- Do not breathe exhaust gas; it contains colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.
- If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.
- Do not run the engine in closed spaces such as a garage.
- Do not park the vehicle with the engine running for an extended period of time.
- Keep the back door closed while driving, otherwise exhaust gas could be drawn into the passenger compartment. If you must drive with the back door open, follow these precautions:
  - Open all the windows.
  - Turn the air recirculation mode off and set the fan speed control to the highest level to circulate the air.
- If electrical wiring or other cable connections must pass to a trailer through the seal of the back door or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.
- If a special body or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. (Some recreational vehicle appliances such as stoves, refrigerators, heaters, etc. may also generate carbon monoxide.)

- **The exhaust system and body should be inspected by a qualified mechanic whenever:**
  - Your vehicle is raised while being serviced.
  - You suspect that exhaust fumes are entering into the passenger compartment.
  - You notice a change in the sound of the exhaust system.
  - You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.

### THREE-WAY CATALYST



#### **WARNING:**

- **The exhaust gas and the exhaust system are very hot. Keep people, animals and flammable materials away from the exhaust system components.**
- **Do not stop or park the vehicle over flammable materials such as dry grass, wastepaper or rags. They may ignite and cause a fire.**

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gas in the three-way catalyst is burned at high temperatures to help reduce pollutants.



#### **CAUTION:**

- **Do not use leaded gasoline. (See “Recommended fluids/lubricants and capacities” (P.9-2).) Deposits from leaded gasoline seriously reduce the ability of the three-way catalyst to help reduce exhaust pollutants and/or damage the three-way catalyst.**

## CARE WHEN DRIVING

Driving your vehicle to fit the circumstances is essential for your safety and comfort. As a driver, you should be the one who knows best how to drive in the given circumstances.

### ENGINE COLD START PERIOD

Due to the higher engine speeds, when the engine is cold, extra caution must be exercised when selecting a gear during the engine warm-up period after starting the engine.

### LOADING LUGGAGE

Loads and their distribution and the attachment of equipment (coupling devices, roof baggage carriers, etc.) will considerably change the driving characteristics of the vehicle. Your driving style and speed must be adjusted according to the circumstances.

### DRIVING IN WET CONDITIONS

- Avoid accelerating or stopping suddenly.
- Avoid sharp turning or lane changing suddenly.
- Avoid following too close to the vehicle in front.

When water covers the road surface with water puddles, small water streams, etc., reduce speed to prevent hydroplaning which can cause skidding and loss of control. Worn tires will increase this risk.

## PUSH-BUTTON POWER SWITCH

### DRIVING IN WINTER CONDITIONS

- Drive cautiously.
- Avoid accelerating or stopping suddenly.
- Avoid sharp turning or lane changing suddenly.
- Avoid sudden steering.
- Avoid following too close to the vehicle in front.

### PRECAUTIONS ON PUSH-BUTTON POWER SWITCH OPERATION



#### WARNING:

**Do not operate the push-button power switch while driving the vehicle except in an emergency. (The e-POWER system will stop when the power switch is pushed 3 consecutive times or the power switch is pushed and held for more than 2 seconds.) The steering wheel will lock and could cause the driver to lose control of the vehicle. This could result in serious vehicle damage or personal injury.**

Before operating the push-button power switch, be sure to push the P position switch to engage the "P" (Park) position.

### INTELLIGENT KEY SYSTEM

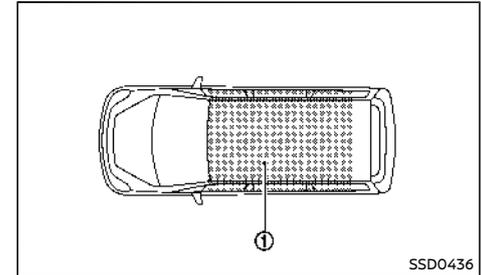
The Intelligent Key system can operate the power switch without taking the key out from your pocket or bag. The operating environment and/or conditions may affect the Intelligent Key system operation.



#### CAUTION:

- **Be sure to carry the Intelligent Key with you when operating the vehicle.**
- **Never leave the Intelligent Key inside the vehicle when you leave the vehicle.**

### Operating range



The Intelligent Key can only be used for starting the e-POWER system when the Intelligent Key is within the specified operating range ① as illustrated.

When the Intelligent Key battery is almost discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower and may not function properly.

If the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the power switch to start the e-POWER system.

- The luggage room area is not included in the operating range, but the Intelligent Key may function.
- If the Intelligent Key is placed on the instrument panel, inside the glove box, door pocket or the corner of the interior compartment, the Intelligent Key may not function.
- If the Intelligent Key is placed near the door or window outside the vehicle, the Intelligent Key may function.

## POWER SWITCH POSITIONS



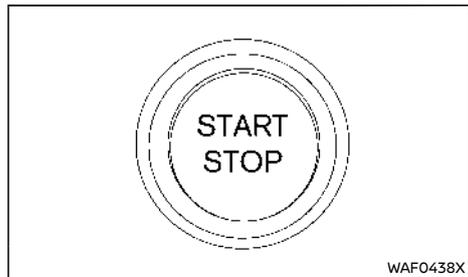
### WARNING:

Never place the power switch in the "OFF" position while driving. The steering wheel may lock and cause the driver to lose control of the vehicle, resulting in serious vehicle damage or personal injury.



### CAUTION:

- Do not leave the vehicle for extended periods of time when the power switch is in the "ON" position and the e-POWER system is not running. This can discharge the battery.
- Use electrical accessories with the e-POWER system running to avoid discharging the vehicle battery. If you must use accessories while the e-POWER system is not running, do not use them for extended periods of time and do not use multiple electrical accessories at the same time.



When the power switch is pushed without depressing the brake pedal, the power switch

will illuminate.

Push the power switch:

- once to change to "ON".
- two times to change to "OFF".

When the READY to drive indicator light illuminates in the meter, the vehicle can be driven.

When the power switch cannot be switched to the "OFF" position, proceed as follows.

1. Stop the vehicle in a safe location, and then apply the parking brake.
2. Push the power switch to the "ON" position with the brake pedal depressed.
3. Push the P position switch to place the vehicle in the "P" (Park) position.

### ON position

The ignition system and the electrical accessory power activate at this position without the e-POWER system turned on.

The "ON" position has a battery saver feature that will place the power switch in the "OFF" position, if the vehicle is not running, after some time under the following conditions:

- hazard indicator flasher switch is turned on.
- power switch is in the "ON" position.
- e-POWER system is stopped.

The battery saver feature will be cancelled if any of the following occur:

- hazard indicator flasher switch is turned off.
- power switch is in the "OFF" position.
- e-POWER system is running.
- vehicle is driven.

The power switch will automatically be placed in the "OFF" position when the following conditions have been met and 10 minutes have

passed.

- When the power switch is placed in the "ON" position.
- When the vehicle is parked.
- When the hazard indicator and turn signal light are turned off.

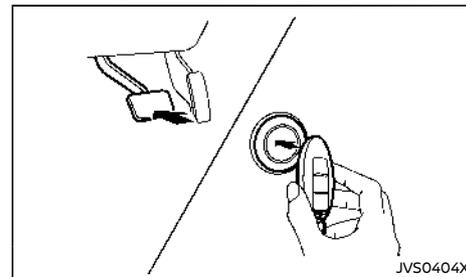
### OFF position

The e-POWER system is turned off at this position.

### Auto ACC position

With the vehicle in the "P" (Park) position, the Intelligent Key with you and the power switch placed from "ON" to "OFF", the radio can still be used for a period of time, or until the driver's door is opened. After a period of time, functions such as radio and Bluetooth® Hands-Free Phone System may be restarted by turning on the audio system (see "Audio system (models without NissanConnect system)" (P.4-17) or the separate NissanConnect Owner's Manual – if equipped) or by pushing the "UNLOCK" button on the Intelligent Key for up to a total of 30 minutes.

### INTELLIGENT KEY BATTERY DISCHARGE



## STARTING THE e-POWER SYSTEM

If the battery of the Intelligent Key is discharged, or environmental conditions interfere with the Intelligent Key operation, start the e-POWER system according to the following procedure:

1. Push the P position switch to engage the "P" (Park) position.
2. Firmly depress the brake pedal.
3. Touch the power switch with the Intelligent Key as illustrated. (A chime will sound.)
4. Push the power switch while depressing the brake pedal within 10 seconds after the chime sounds. The e-POWER system will start.

After step 3 is performed, when the power switch is pushed without depressing the brake pedal, the power switch position will change to "ON".

### NOTE:

- **When the power switch is placed in the "ON" position or the e-POWER system is started by the above procedures, the "Key Battery Low" warning appears on the vehicle information display even if the Intelligent Key is inside the vehicle. This is not a malfunction. To turn off the warning (light), touch the power switch with the Intelligent Key again.**
- **If the "Key Battery Low" warning appears on the vehicle information display, replace the battery as soon as possible. (See "Intelligent Key battery" (P.8-17).)**

1. Confirm the parking brake is applied.
2. Confirm that the vehicle is in the "P" (Park) position.

The e-POWER system is designed not to operate unless the vehicle is in the "P" (Park) position or the shift position is in the "N" (Neutral) position.

**The Intelligent Key must be carried with you when operating the power switch.**

3. Firmly depress the brake pedal and push the power switch to place the vehicle 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.

To stop the e-POWER system, push the P position switch, and push the power switch to the "OFF" position.

### NOTE:

- **After placing the power switch in the "ON" position, the engine may start before the READY to drive indicator light stops blinking and then illuminates.**
- **When the remaining Lithium ion (Li-ion) battery level is low, it may take a period of time until the READY to drive indicator light stops blinking and then illuminates after pushing the power switch. In the meantime, the energy monitor and battery charge display, etc. will not appear.**
- **The brake pedal may be firm since the pedal is operated before the e-POWER system starts. In this case, depress the brake pedal more firmly than usual.**

- **You may hear a sound when the brake pedal is depressed with the e-POWER system off. This does not indicate a malfunction.**
- **If the e-POWER system cannot be started, place the power switch in the "OFF" position and wait for 5 seconds or more and then restart the e-POWER system.**

## DRIVING VEHICLE

### ELECTRIC SHIFT CONTROL SYSTEM

This vehicle is electronically controlled to produce maximum available power and 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 foot brake pedal before moving the shift lever to the "D" (Drive) position.

**The shift lever of this vehicle is designed so that the foot brake 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 position cannot be moved out of the "P" (Park) position and into any of the other positions if the power switch is placed in the "OFF" position.**

2. Keep the foot brake pedal depressed, and move the shift lever to the "D" (Drive) position.
3. Release the parking brake and foot brake 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.**

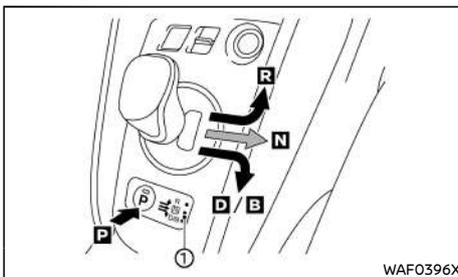
- **Never attempt to shift to either the "P" (Park) or "R" (Reverse) position while the vehicle is moving forward and "P" (Park), "D" (Drive) or "B" position while the vehicle is reversing. This could cause an accident or damage the transmission.**



#### CAUTION:

- **When stopping the vehicle on an uphill slope, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.**
- **Do not hang items on the shift lever. This may cause an accident due to a sudden start.**

#### Shifting



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 vehicle is placed in the "N" (Neutral) position.

When in the "D" (Drive) position, slide along the gate to select "B" position.

#### NOTE:

- **Confirm that the vehicle is in the desired shift position by checking the shift indicator ① located near the shift lever or on the vehicle information display.**
- **To place the vehicle into the "D" (Drive) position from the "B" position, move the shift lever into the "D" (Drive) position again.**
- **When S (Smart) mode or ECO mode of the drive mode is selected, the shift position cannot be changed to the "B" position. (See "e-POWER Drive" (P.e-POWER System-7).)**

After placing the power switch in the READY to drive position, fully depress the brake pedal, and move the shift lever to any of the preferred shift positions.

#### NOTE:

- **The vehicle automatically applies the "P" (Park) position when the power switch is placed in the "OFF" position.**
- **When the READY to drive indicator light  does not illuminate, the shift position cannot be changed to the "D" (Drive), "B" or "R" (Reverse) position even if the power switch is placed in the "ON" position.**
- **If the following conditions have been met, the shift position may be changed to the "P" (Park) position automatically.**
  - **When the vehicle is stopped in S (Smart) or ECO mode.**
  - **When the driver's seat belt is not fastened.**
  - **When the driver's door is opened.**



#### WARNING:

- The shift lever is always in the center position when released. When the power switch is placed in the READY to drive position, the driver needs to confirm that the vehicle is in the "P" (Park) position. The indicator light above the "P" by the shift lever is illuminated and the "P" is displayed on the vehicle information display. If the vehicle is in the "D" (Drive) 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.
- Do not place the shift lever in the "N" (Neutral) position while driving. The regenerative brake is not operated, which could result in an accident.
- If the regenerative brake does not work sufficiently, depress the brake pedal to decrease the vehicle speed.
- When stopping or parking on an uphill or downhill road, depress the brake pedal and stop the vehicle. If the vehicle continues to be stopped with only the accelerator pedal depressed and the brake pedal released, the electric motor for driving could cause overheating. When stopping the vehicle, release the accelerator pedal and depress the brake pedal.



#### 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 center position by releasing your hand from the lever. Holding the shift lever in a mid-way position may also damage the shift control system.
- Do not operate the shift lever while the accelerator pedal is depressed, 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 excessive force would be applied to the electric motor for driving 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.

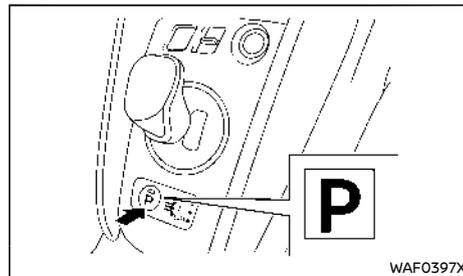
#### NOTE:

- Do not intentionally back up with the shift lever placed in the "D" (Drive) or "B" position on an incline or move your vehicle forward with the shift lever placed in the "R" (Reverse) position on a decline.
- When the Lithium ion (Li-ion) battery is fully charged, regenerated electric power is consumed by the engine started with

the electric motor for power generation. In that case, the engine sound may be loud, but this is not a malfunction.

- When the P position switch is pushed while driving, the operation is canceled. (The buzzer sounds and the shift position before being operated is maintained.)
- Creeping does not occur when the accelerator pedal is released with the drive mode in S (Smart) mode or ECO mode to decrease the vehicle speed. Creeping occurs when the brake pedal is depressed once and released.
- If the accelerator pedal is depressed when the vehicle is stopped and the shift lever is placed in the "N" (Neutral) position, the power limitation indicator light  will illuminate. In this case, even if the shift lever is shifted into the "D" (Drive) position, the acceleration will be reduced. (See "Power limitation indicator light" (P.2-12).)

#### P (Park):



Use this 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, push the P position switch as shown in the illustration once the vehicle has come to a complete stop. If the P position switch is pushed while the vehicle is in motion, a chime sounds and the current shift position is maintained.** After switching to the "P" (Park) position, apply the parking brake. When parking on a hill, apply the parking brake first while keeping the foot brake pedal depressed then push the P position switch and place the vehicle in the "P" (Park) position. For the parking brake operation, see "Parking brake" (P.3-22).

#### NOTE:

- **While the vehicle is stationary, if the shift position is other than "P" (Park), when the power switch is placed in the "OFF" position, the shift position will automatically switch to the "P" (Park) position.**
- **If the P position switch is pushed while sliding the shift lever, the shift position will not switch to the "P" (Park) position. When pushing the P position switch, be sure to first allow the shift lever to return to its center position.**

#### R (Reverse):

Use this position to reverse. Make sure that the vehicle is completely stopped before selecting the "R" (Reverse) position. **If the vehicle is placed in the "R" (Reverse) position when driving forward, the chime will sound and the vehicle will switch into the N (Neutral) position.**

#### 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 brake system does

not operate in the "N" (Neutral) position. However, the vehicle brakes will still stop the vehicle.

#### D (Drive):

Use this position for all normal forward driving. **If the vehicle is placed in the "D" (Drive) position while reversing, the chime will sound and the vehicle will switch into the "N" (Neutral) position.**

#### B:

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.

#### Regenerative brake:

- The effectiveness of the regenerative brake is increased when the vehicle is placed in the "B" position more than the "D" (Drive) position and the drive mode is S (Smart) mode or ECO mode more than NORMAL mode. If the vehicle speed is too fast, depress the brake pedal accordingly.
- The effectiveness of the brake of the regenerative brake may be decreased on a slippery road, when the Li-ion battery is fully charged or the Li-ion battery temperature is low.

#### Neutral hold mode function (if equipped)

This function enables you to turn off the e-POWER system with the vehicle in the "N" (Neutral) position. While this function is activated, the vehicle can be moved by pushing with hand (when double parking) even if the power switch is in the "OFF" position.



#### WARNING:

- **Use this function on a level surface only. Failure to do so may cause the vehicle to move accidentally and could result in a collision or serious personal injury.**
- **Do not use this function for a purpose other than double parking.**

To activate the Neutral hold mode, perform the following operations.

1. Push the power switch to start the e-POWER system.
2. Release the electronic parking brake.
3. Depress and hold the brake pedal.
4. Push the P position switch.
5. Slide the shift lever to the "N" (Neutral) position, and hold it for 1 second until "N" appears in the vehicle information display.
6. Slide the shift lever to the "N" (Neutral) position again, and hold it for 1 second, until a message "Neutral Hold Mode has been activated" appears in the vehicle information display. (See "22. Neutral hold mode activated indicator" (P.2-22).)
7. Place the power switch in the "OFF" position. The e-POWER system will turn off with holding the "N" (Neutral) position.

To exit the Neutral hold mode, place the vehicle in other than "N" (Neutral) position.

#### NOTE:

- **It is necessary to perform the steps 3 through 6 within approximately 5 seconds to prevent incorrect operation.**
- **When the power switch is placed in the "OFF" position while the shift lever is in the "N" (Neutral) position, a message will appear in the vehicle information display.**

## VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

(See "21. Neutral hold mode guidance indicator" (P.2-22).)



### WARNING:

- If the Neutral hold mode is unavailable, a message will appear in the vehicle information display. (See "23. Neutral hold mode was not activated indicator" (P.2-22).) To activate the Neutral hold mode, wait for a while without shifting operation and then perform the operations again.
- The VDC system is designed to help the driver maintain stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.
- Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not NISSAN recommended for your vehicle or are extremely deteriorated, the VDC system may not operate properly. This could adversely affect vehicle handling performance, and the VDC warning light  may illuminate.
- If brake related parts such as brake pads, rotors and calipers are not NISSAN recommended or are extremely deteriorated, the VDC system may not operate properly and the VDC warning light  may illuminate.
- If traction motor control related parts are not NISSAN recommended or are extremely deteriorated, the VDC warning light  may illuminate.
- When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the VDC warning light  may illuminate. Do not drive on these types of roads.
- When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the VDC warning light  may illuminate.

This is not a malfunction. Restart the e-POWER system after driving onto a stable surface.

- If wheels or tires other than the NISSAN recommended ones are used, the VDC system may not operate properly and the VDC warning light  may illuminate.
- The VDC system is not a substitute for winter tires or tire chains on a snow covered road.

The Vehicle Dynamic Control (VDC) system uses various sensors to monitor driver inputs and vehicle motion. Under certain driving conditions, the VDC system helps to perform the following functions.

- Controls brake pressure to reduce wheel slip on one slipping drive wheel so power is transferred to a non slipping drive wheel on the same axle.
- Controls brake pressure and 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 VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the VDC warning light  in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

If a malfunction occurs in the system, the VDC warning light  illuminates in the instrument panel. The VDC system automatically turns off.

The VDC OFF switch is used to turn off the VDC system. The VDC off indicator light  illuminates to indicate the VDC system is off. When the VDC system is turned off the VDC system still operates to prevent one drive wheel from slipping by transferring power to a non slipping drive wheel. The VDC warning light  flashes if this occurs. All other VDC functions are off and the VDC warning light  will not flash. The VDC system is automatically reset to on when the power switch is placed in the "OFF" position then back to the "ON" position.

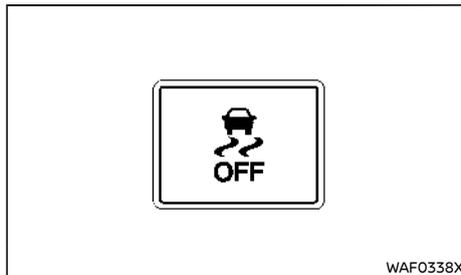
See "Vehicle Dynamic Control (VDC) warning light" (P.2-11) and "Vehicle Dynamic Control (VDC) off indicator light" (P.2-13).

The computer has a built-in diagnostic feature that tests the system each time you start the e-POWER system 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.

## VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH

The vehicle should be driven with the Vehicle Dynamic Control (VDC) system ON for most driving conditions.

When the vehicle is stuck in mud or snow, the VDC system reduces the traction motor output to reduce wheel spin. The vehicle speed will be reduced even if the accelerator is depressed to the floor. If maximum traction motor power is needed to free a stuck vehicle, turn the VDC system off.



To turn off the VDC system, push the VDC OFF switch. The  indicator light will illuminate.

Push the VDC OFF switch again or restart the e-POWER system to turn ON the system.

## CHASSIS CONTROL

The chassis control is an electric control module that includes the Intelligent Trace Control functions.

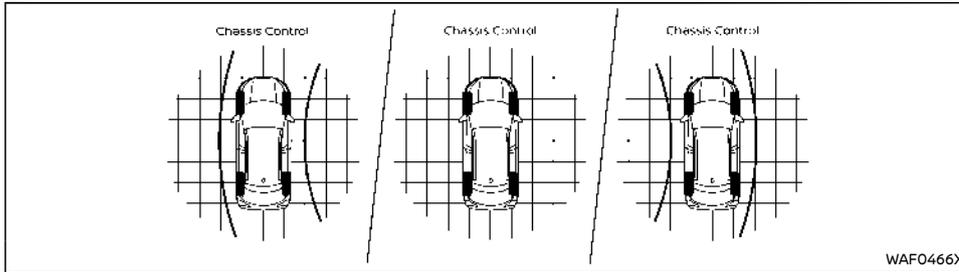
### INTELLIGENT TRACE CONTROL

The Intelligent Trace Control 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 Intelligent Trace Control can be set to ON (enabled) or OFF (disabled) using the "Driver Assistance" settings in the vehicle information display. See "Settings" (P.2-14) for more information.

When the Vehicle Dynamic Control (VDC) OFF switch is used to turn off the VDC system, the Intelligent Trace Control is also turned off.

## HILL START ASSIST SYSTEM



When the Intelligent Trace Control is operated and the "Chassis Control" is selected in the vehicle information display, the Intelligent Trace Control graphics are shown in the vehicle information display. (See "Trip computer" (P.2-25).)

If the chassis control warning message appears in the vehicle information display, it may indicate that the Intelligent Trace Control is not functioning properly. Have the system checked by a NISSAN dealer. (See "36. Chassis Control System Error warning" (P.2-23).)



### WARNING:

**The Intelligent Trace Control may not be effective depending on the driving condition. Always drive carefully and attentively.**

When the Intelligent Trace Control is operating, you may feel a pulsation in the brake pedal and hear a noise. This is normal and indicates that the Intelligent Trace Control is operating properly. You may also feel deceleration when the Intelligent Trace Control is operating. However, this is not a malfunction.

Even if the Intelligent Trace Control is set to OFF, some functions will remain on to assist the

driver (for example, avoidance scenes).



### WARNING:

- **Never rely solely on the hill start assist system to prevent the vehicle from moving backward on a hill. Always drive carefully and attentively. Depress the brake pedal when the vehicle is stopped on a steep hill. Be especially careful when stopped on a hill on frozen or muddy roads. Failure to prevent the vehicle from rolling backwards may result in a loss of control of the vehicle and possible serious injury or death.**
- **The hill start assist system is not designed to hold the vehicle at a standstill on a hill. Depress the brake pedal when the vehicle is stopped on a steep hill. Failure to do so may cause the vehicle to roll backwards and may result in a collision or serious personal injury.**
- **The hill start assist system may not prevent the vehicle from rolling backwards on a hill under all load or road conditions. Always be prepared to depress the brake pedal to prevent the vehicle from rolling backwards. Failure to do so may result in a collision or serious personal injury.**

The hill start assist system automatically keeps the brakes applied to help prevent the vehicle from rolling backwards in the time it takes the driver to release the brake pedal and apply the accelerator when the vehicle is stopped on a hill.

The hill start assist system will operate automatically under the following conditions:

- The shift lever is shifted into "D" (Drive), "B" or "R" (Reverse) position.

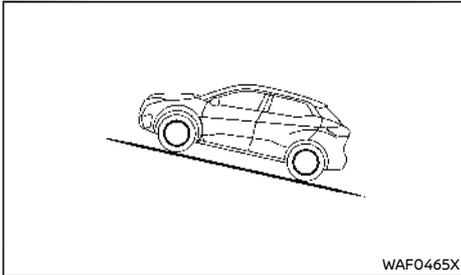
## BLIND SPOT WARNING (BSW) (if equipped)

- The vehicle is stopped completely on a hill by applying the brake.

The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and the hill start assist system will stop operating completely.

The hill start assist system will not operate when the vehicle is placed in the "N" (Neutral) or "P" (Park) position or on a flat and level road.

When the Vehicle Dynamic Control (VDC) warning light illuminates in the meter, the hill start assist system will not operate. (See "Vehicle Dynamic Control (VDC) warning light" (P.2-11).)



The hill start assist system status can be checked in the vehicle information display. When the hill start assist system is operated and the "Chassis Control" is selected in the vehicle information display, the hill start assist system graphic will appear. (See "11. Chassis Control" (P.2-28).)

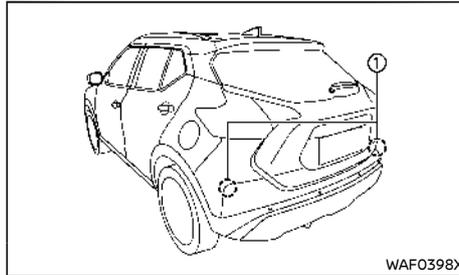


### WARNING:

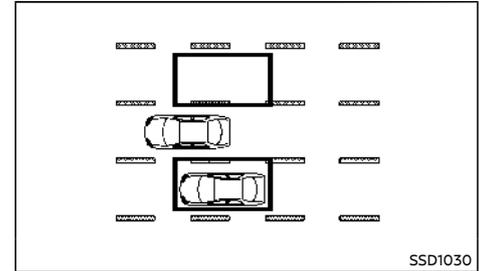
**Failure to follow the warnings and instructions for proper use of the BSW system could result in serious injury or death.**

- **The BSW system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction your vehicle will move to ensure it is safe to change lanes. Never rely solely on the BSW system.**

The BSW system helps alert the driver of other vehicles in adjacent lanes when changing lanes.

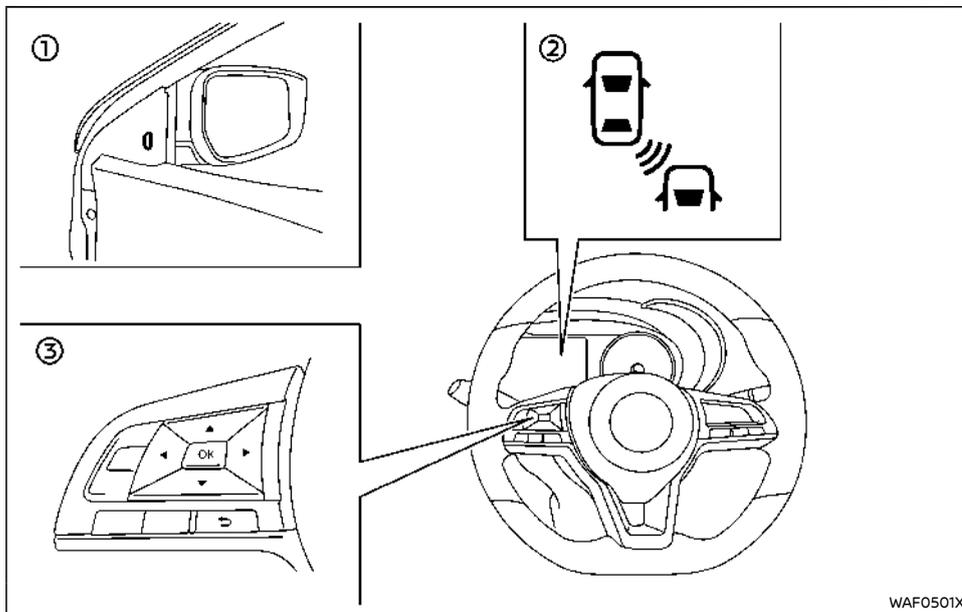


The BSW system uses radar sensors ① installed near the rear bumper to detect other vehicles in an adjacent lane.



### Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated. This detection zone starts from the outside mirror of your vehicle and extends approximately 3 m (10 ft) behind the rear bumper, and approximately 3 m (10 ft) sideways.



WAF0501X

- ① Side indicator light
- ② BSW indicator
- ③ Steering-wheel-mounted controls (left side)

### BSW SYSTEM OPERATION

The BSW system operates above approximately 32 km/h (20 MPH).

If the radar sensors detect a vehicle in the detection zone, the side indicator light illuminates and the BSW indicator on the vehicle information display flashes.

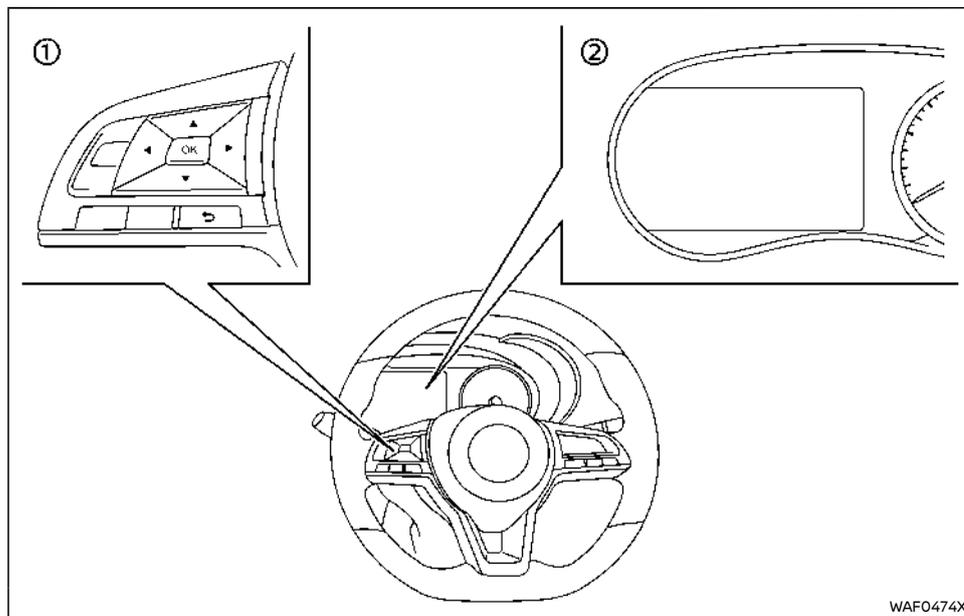
If the turn signal is then activated, the system chimes (twice) and the side indicator light flashes. The side indicator light continues to flash until the detected vehicle leaves the detection zone.

The side indicator light illuminates for a few seconds when the power switch is placed in the "ON" position.

The brightness of the side indicator light is adjusted automatically depending on the brightness of the ambient light.

If a vehicle comes into the detection zone after the driver activates the turn signal, then only the side indicator light flashes and no chime sounds. For additional information, refer to "BSW driving situations" (P.5-17).

## HOW TO ENABLE/DISABLE THE BSW SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the BSW system.

1. Push the ◀ ▶ switch until "Settings" appears in the vehicle information display. Use the ⬆ switch to select "Driver Assistance". Then push OK.

2. Select "Blind Spot" and push OK.

3. Select "Blind Spot Warning" and push OK.

### NOTE:

**When enabling/disabling the system, the system will retain current settings even if the e-POWER system is restarted.**

## BSW SYSTEM LIMITATIONS



### WARNING:

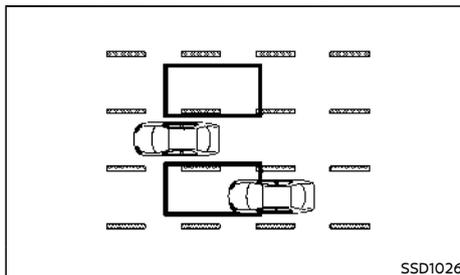
Listed below are the system limitations for the BSW system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- The BSW system cannot detect all vehicles under all conditions.
- The radar sensors may not be able to detect and activate BSW when certain objects are present such as:
  - Pedestrians, bicycles, animals.
  - Vehicles such as motorcycles, low height vehicles, or high ground clearance vehicles.
  - Oncoming vehicles.
  - Vehicles remaining in the detection zone when you accelerate from a stop.
  - A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle.
  - A vehicle approaching rapidly from behind.
  - A vehicle which your vehicle overtakes rapidly.
  - A vehicle that passes through the detection zone quickly.
  - When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.

- The radar sensor's detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.
- The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operation condition.
- The following conditions may reduce the ability of the radar to detect other vehicles:
  - Severe weather
  - Road spray
  - Ice/frost/dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.
- Excessive noise (for example, audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.

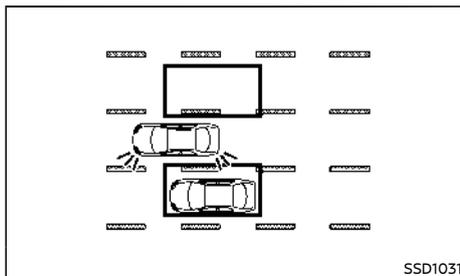
## BSW DRIVING SITUATIONS

Another vehicle approaching from behind



**Illustration 1 – Approaching from behind**

Illustration 1: The side indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.



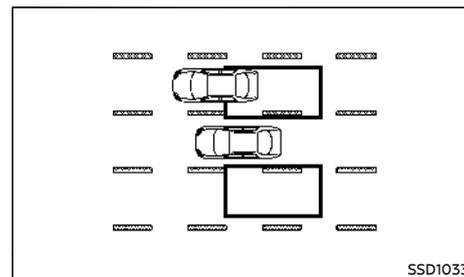
**Illustration 2 – Approaching from behind**

Illustration 2: If the driver activates the turn signal, then the system chimes (twice) and the side indicator light flashes.

## NOTE:

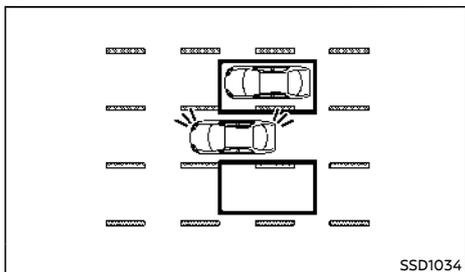
- The radar sensors may not detect vehicles which are approaching rapidly from behind.
- If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light will flash but no chime will sound when the other vehicle is detected.

Overtaking another vehicle



**Illustration 3 – Overtaking another vehicle**

Illustration 3: The side indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 2 seconds.



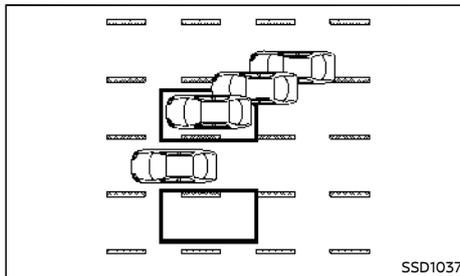
**Illustration 4 - Overtaking another vehicle**

Illustration 4: If the driver activates the turn signal while another vehicle is in the detection zone, then the system chimes (twice) and the side indicator light flashes.

**NOTE:**

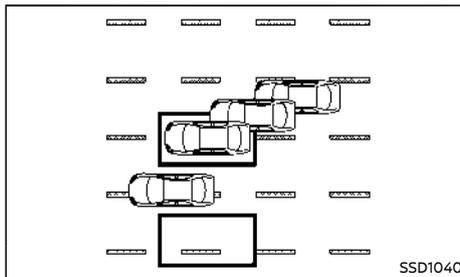
- When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.
- The radar sensors may not detect slower moving vehicles if they are passed quickly.
- If the driver activates the turn signal before a vehicle enters the detection zone, the side indicator light 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**

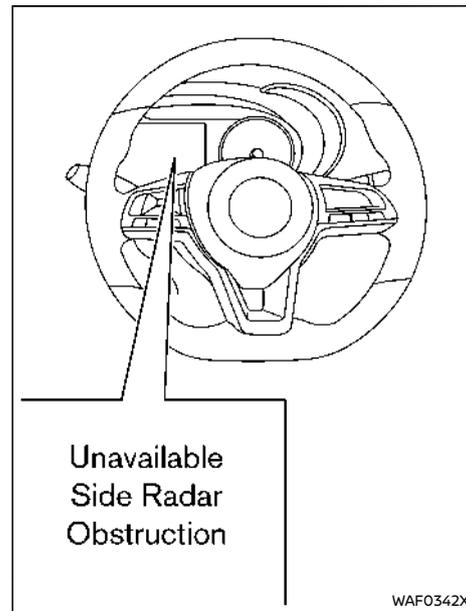
Illustration 6: If the driver activates the turn signal, then the system chimes (twice) and the side indicator light flashes.

**NOTE:**

- The radar sensors may not detect a vehicle which is traveling at about the same speed as your vehicle when it enters the detection zone.

- 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.

**SYSTEM TEMPORARILY UNAVAILABLE**



When radar blockage is detected, the BSW system will be turned off automatically, a chime will sound and the "Unavailable: Side Radar Obstruction" warning message will appear in the vehicle information display.

The system is not available until the conditions

no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog. The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

**NOTE:**

**If the BSW system stops working, the RCTA system will also stop working.**

**Action to take:**

When the above conditions no longer exist, the system will resume automatically.

If the "Unavailable: Side Radar Obstruction" warning message continues to appear, have the system checked by a NISSAN dealer.

**SYSTEM MALFUNCTION**

When the BSW system malfunctions, it will be turned off automatically and the "Malfunction: See Owner's Manual" warning message will appear in the vehicle information display.

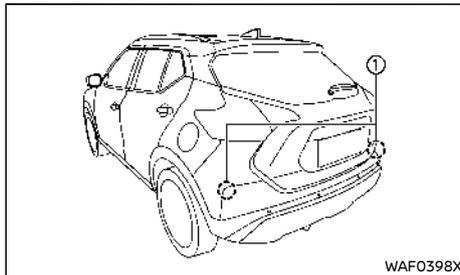
**NOTE:**

**If the BSW system stops working, the RCTA system will also stop working.**

**Action to take:**

Stop the vehicle in a safe location, turn the e-POWER system off and restart the e-POWER system. If the message continues to appear, have the BSW system checked by a NISSAN dealer.

**SYSTEM MAINTENANCE**



The two radar sensors ① for the BSW system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors.

See a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

For the radio approval numbers and information, see "Radio approval number and information" (P.9-8).

**REAR CROSS TRAFFIC ALERT (RCTA) (if equipped)**

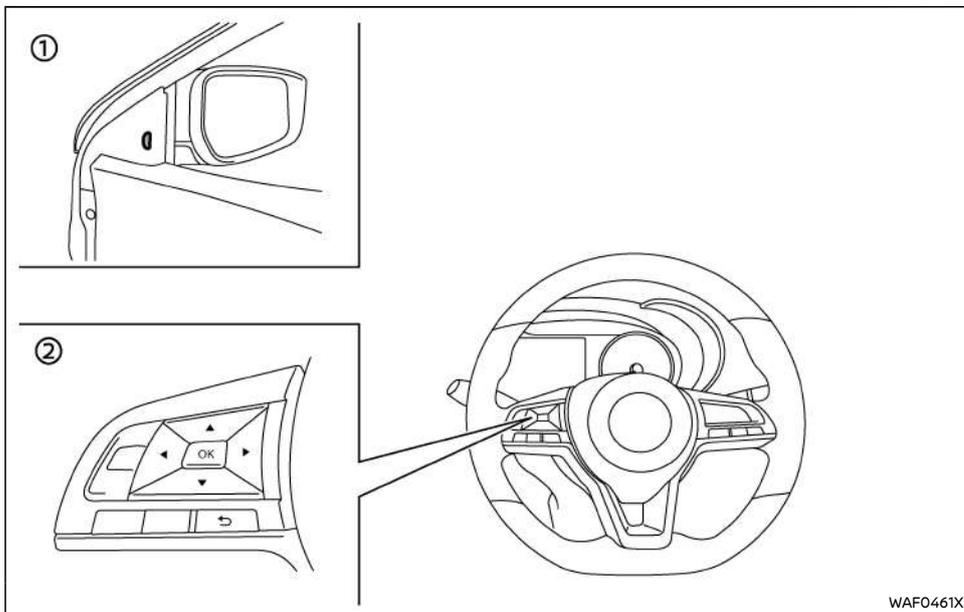


**WARNING:**

**Failure to follow the warnings and instructions for proper use of the RCTA system could result in serious injury or death.**

- **The RCTA system is not a replacement for proper driving procedures and is not designed to prevent contact with vehicles or objects. When backing out of a parking space, always use the side and rear mirrors and turn and look in the direction your vehicle will move. Never rely solely on the RCTA system.**

The RCTA system will assist you when backing out from a parking space. When the vehicle is in reverse, the system is designed to detect other vehicles approaching from the right or left of the vehicle. If the system detects cross traffic, it will alert you.



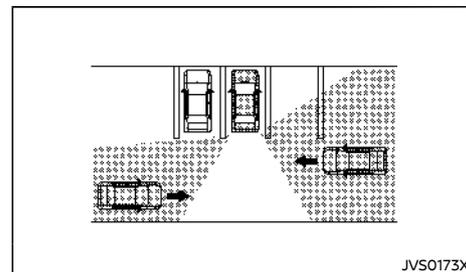
- ① Side indicator light
- ② Steering-wheel-mounted controls (left side)

### RCTA SYSTEM OPERATION

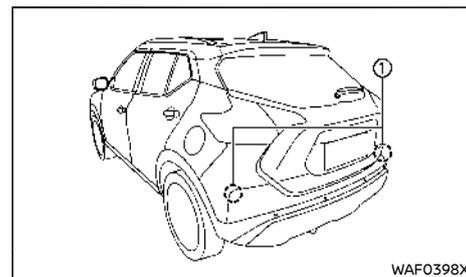
The RCTA system can help alert the driver of an approaching vehicle when the driver is backing out of a parking space.

When the shift position is in "R" (Reverse) and the vehicle speed is less than approximately 8 km/h (5 MPH), the RCTA system is operational.

If the radar detects an approaching vehicle from either side, the system chimes (once) and the side indicator light flashes on the side the vehicle is approaching from.



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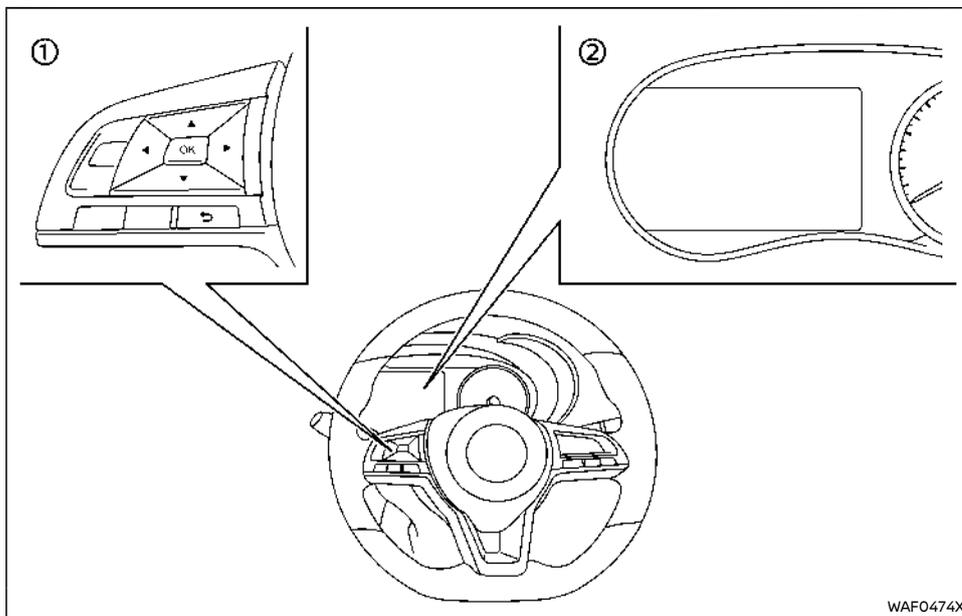


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The RCTA system uses radar sensors ① installed on both sides near the rear bumper to detect an approaching vehicle.

The radar sensors ① can detect an approaching vehicle from up to approximately 20 m (66 ft) away.

## HOW TO ENABLE/DISABLE THE RCTA SYSTEM



① Steering-wheel-mounted controls (left side)

② Vehicle information display

Perform the following steps to enable or disable the RCTA system.

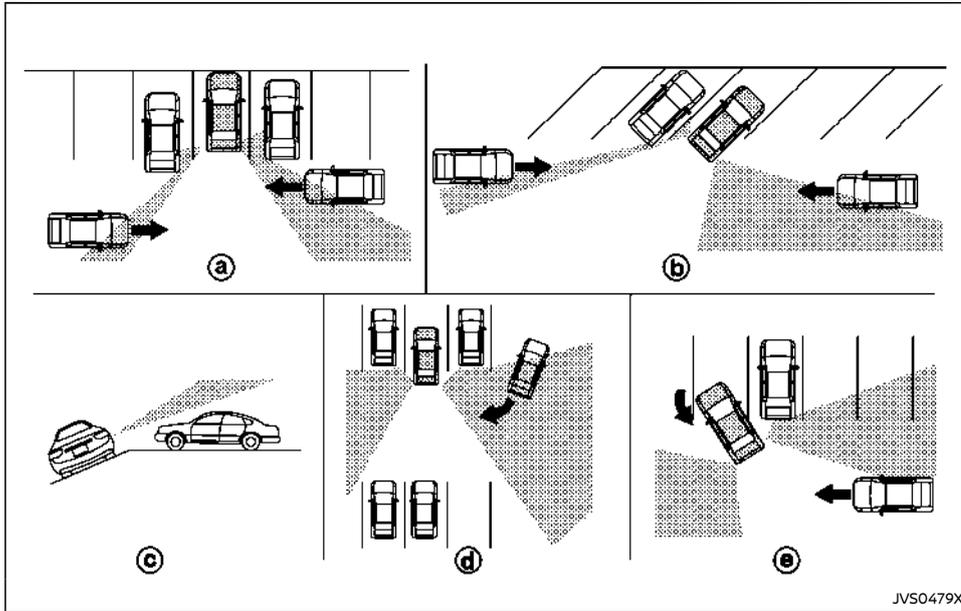
1. Push the ◀ ▶ switch until "Settings" appears in the vehicle information display. Use the ⬆ switch to select "Driver Assistance". Then push OK.

2. Select "Parking Aids" and push OK.

3. Select "Cross Traffic" and push OK.

### NOTE:

**When enabling/disabling the system, the system setting will be retained even if the e-POWER system is restarted.**



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## RCTA SYSTEM LIMITATIONS

### **⚠ WARNING:**

Listed below are the system limitations for the RCTA system. Failure to operate the vehicle in accordance with these system limitations could result in serious injury or death.

- Always check surroundings and turn to check what is behind you before backing up. The radar sensors detect approaching (moving) vehicles. The radar sensors

cannot detect every object such as:

- Pedestrians, bicycles, motorcycles, animals or child-operated toy vehicles
- A vehicle that is passing at speeds greater than approximately 30 km/h (19 MPH)
- A vehicle that is passing at speeds lower than approximately 8 km/h (5 MPH)

- The radar sensors may not detect approaching vehicles in certain situations:
  - Illustration (a): When a vehicle parked next to you obstructs the beam of the radar sensor.
  - Illustration (b): When the vehicle is parked in an angled parking space.
  - Illustration (c): When the vehicle is parked on inclined ground.
  - Illustration (d): When an approaching vehicle turns into your vehicle's parking lot aisle.
  - Illustration (e): When the angle formed by your vehicle and approaching vehicle is small.
- The following conditions may reduce the ability of the radar to detect other vehicles:
  - Severe weather
  - Road spray
  - Ice/frost/dirt build-up on the vehicle
- Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors. These conditions may reduce the ability of the radar to detect other vehicles.
- Excessive noise (e.g. audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.

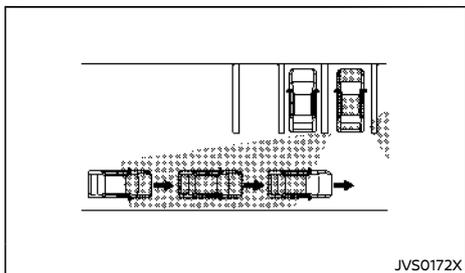


Illustration 1

JVS0172X

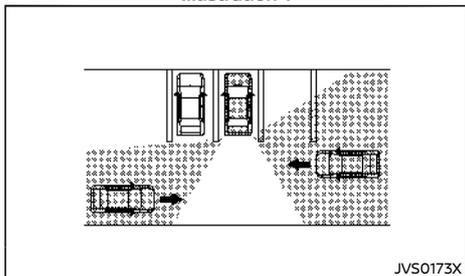


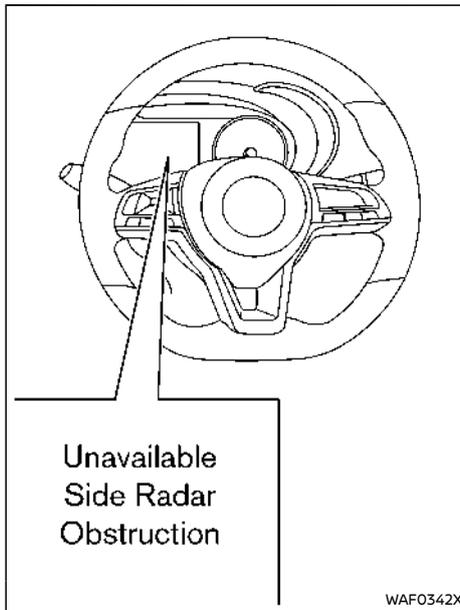
Illustration 2

JVS0173X

**NOTE:**

In the case of several vehicles approaching in a row (Illustration 1) or in the opposite direction (Illustration 2), a chime may not be sounded by the RCTA system after the first vehicle passes the sensors.

**SYSTEM TEMPORARILY UNAVAILABLE**



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When radar blockage is detected, the system will be deactivated automatically. The "Unavailable: Side Radar Obstruction" warning message will appear in the vehicle information display.

The systems are not available until the conditions no longer exist.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the

radar sensors.

**NOTE:**

If the BSW system stops working, the RCTA system will also stop working.

**Action to take:**

When the above conditions no longer exist, the system will resume automatically.

If the "Unavailable: Side Radar Obstruction" warning message continues to appear, have the system checked by a NISSAN dealer.

**SYSTEM MALFUNCTION**

When the RCTA system malfunctions, it will turn off automatically. The "Malfunction: See Owner's Manual" warning message will appear in the vehicle information display.

**NOTE:**

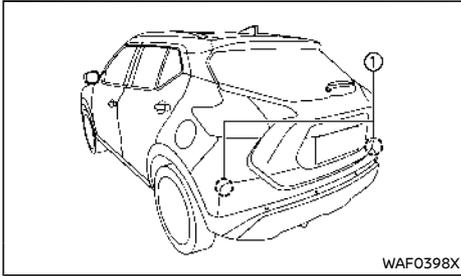
If the BSW system stops working, the RCTA system will also stop working.

**Action to take:**

Stop the vehicle in a safe location, turn the e-POWER system off and restart the e-POWER system. If the message continues to appear, have the system checked by a NISSAN dealer.

## INTELLIGENT EMERGENCY BRAKING SYSTEM (if equipped)

### SYSTEM MAINTENANCE



The two radar sensors ① for the RCTA system are located near the rear bumper. Always keep the area near the radar sensors clean.

The radar sensors may be blocked by temporary ambient conditions such as splashing water, mist or fog.

The blocked condition may also be caused by objects such as ice, frost or dirt obstructing the radar sensors.

Check for and remove objects obstructing the area around the radar sensors.

Do not attach stickers (including transparent material), install accessories or apply additional paint near the radar sensors.

Do not strike or damage the area around the radar sensors. It is recommended that you visit a NISSAN dealer if the area around the radar sensors is damaged due to a collision.

For the radio approval numbers and information, see "Radio approval number and information" (P.9-8).

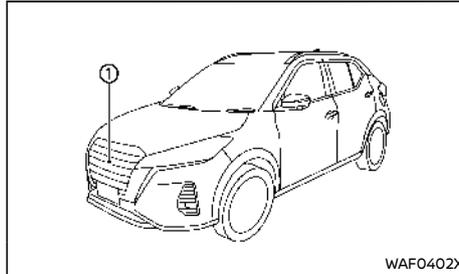


### WARNING:

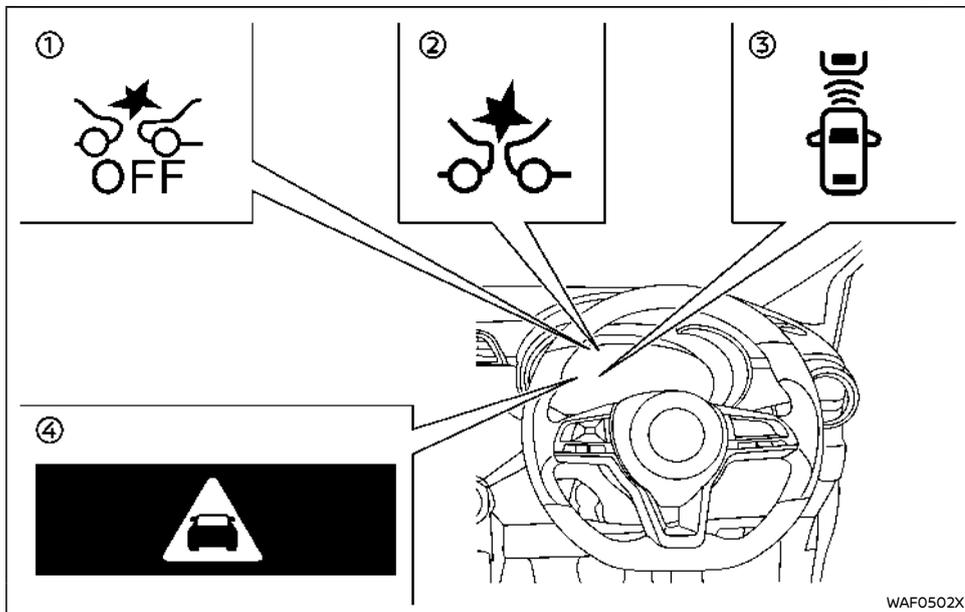
Failure to follow the warnings and instructions for proper use of the Intelligent Emergency Braking system could result in serious personal injury or death.

- The Intelligent Emergency Braking system is a supplemental aid to the driver. It is not a replacement for the driver's attention to traffic conditions or responsibility to drive safely. It cannot prevent accidents due to carelessness or dangerous driving techniques.
- The Intelligent Emergency Braking system does not function in all driving, traffic, weather and road conditions.

The Intelligent Emergency Braking system can assist the driver when there is a risk of a forward collision with the vehicle ahead in the traveling lane.



The Intelligent Emergency Braking system uses a radar sensor ① located on the front of the vehicle to measure the distance to the vehicle ahead in the same lane.



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- ① Intelligent Emergency Braking system off indicator light (on the meter panel)
- ② Intelligent Emergency Braking system warning light (on the meter panel)
- ③ Intelligent Emergency Braking system indicator (in the vehicle information display)
- ④ Intelligent Emergency Braking emergency warning indicator (in the vehicle information display)

## INTELLIGENT EMERGENCY BRAKING SYSTEM OPERATION

The Intelligent Emergency Braking 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 Intelligent Emergency Braking system indicator will flash and a warning chime will sound.

If the driver applies the brakes quickly and forcefully after the warning, and the Intelligent Emergency Braking system detects that there is still the possibility of a forward collision, the

system will automatically increase the braking force.

If the driver does not take action, the Intelligent Emergency Braking 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 Intelligent Emergency Braking system applies harder braking automatically.

While the Intelligent Emergency Braking system is operating, you may hear the sound of brake operation. This is normal and indicates that the Intelligent Emergency Braking system is operating properly.

### NOTE:

**The vehicle's stop lights come on when braking is performed by the Intelligent Emergency Braking system.**

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 Intelligent Emergency Braking system will function later or will not function.

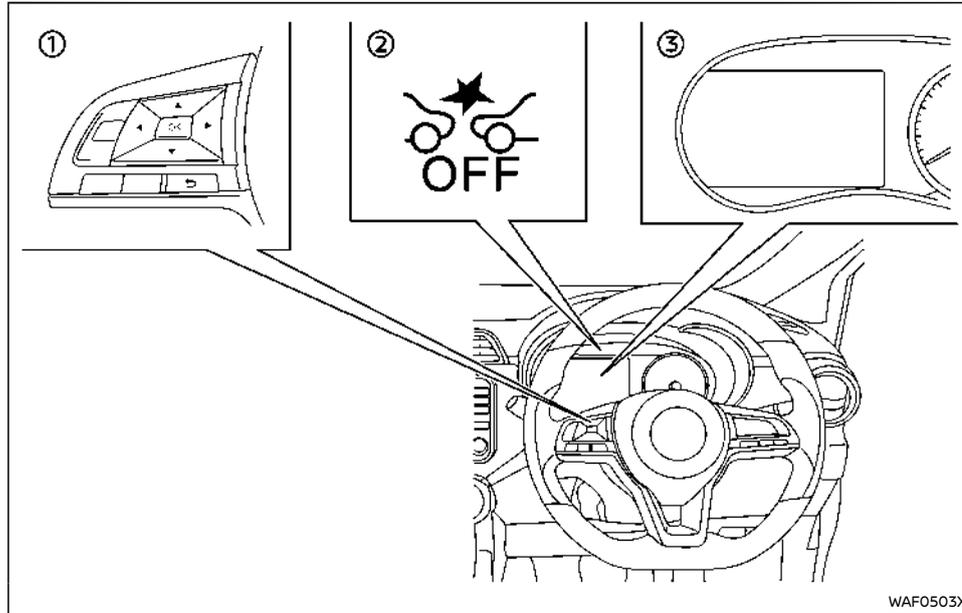
The automatic braking will cease under the following conditions:

- 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 Intelligent Emergency Braking 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 SYSTEM ON/OFF



- ① Steering-wheel-mounted controls (left side)
- ② Intelligent Emergency Braking system off indicator light (on the meter panel)
- ③ Vehicle information display

Perform the following steps to enable or disable the Intelligent Emergency Braking system.

1. Push the ◀ ▶ switch until "Settings" appears in the vehicle information display. Use the ⬆ switch to select "Driver Assistance". Then push OK.
2. Select "Emergency Brake" and push OK.
3. Select "Front" and push OK to enable or disable the system.

When the Intelligent Emergency Braking system is turned off, the Intelligent Emergency Braking system off indicator light (orange) illuminates.

### NOTE:

The Intelligent Emergency Braking system will be automatically turned ON when the e-POWER system is restarted.

### INTELLIGENT EMERGENCY BRAKING SYSTEM LIMITATIONS

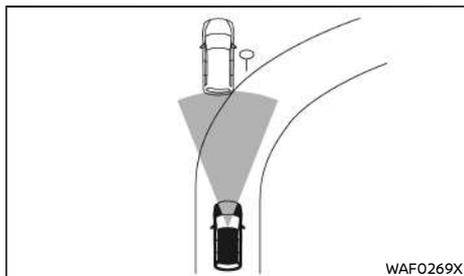


#### WARNING:

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.

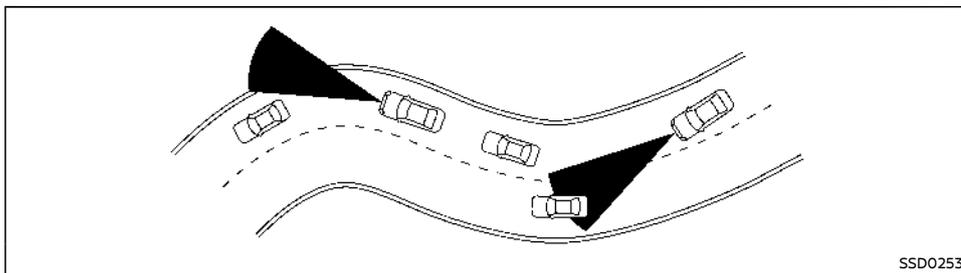
- The Intelligent Emergency Braking system cannot detect all vehicles under all conditions.
- The radar sensor does not detect the following objects:
  - Pedestrians, animals or obstacles in the roadway
  - Oncoming vehicles
  - Crossing vehicles
- The radar sensor has some performance limitations. If a stationary vehicle is in the vehicle's path, the Intelligent Emergency Braking system will not function when the vehicle is driven at speeds over approximately 80 km/h (50 MPH).
- 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 traveling 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 Intelligent Emergency Braking system may unexpectedly push the accelerator pedal up or apply partial braking. When acceleration is necessary, continue to depress the accelerator pedal to override the system.
- The Intelligent Emergency Braking system may react to:
  - objects on the roadside (traffic sign, guard rail, vehicle etc.)



- objects above road (low bridge, traffic sign etc.)
- objects on the road surface (railroad track, grate, steel plate etc.)

- objects in the parking garage (beam etc.)
- Braking distances increase on slippery surfaces.
- The system is designed to automatically check the sensor's functionality, within certain limitations. The system may not detect some forms of obstruction of the sensor area such as ice, snow, stickers, for example. In these cases, the system may not be able to warn the driver properly. Be sure that you check, clean and clear the sensor area regularly.
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

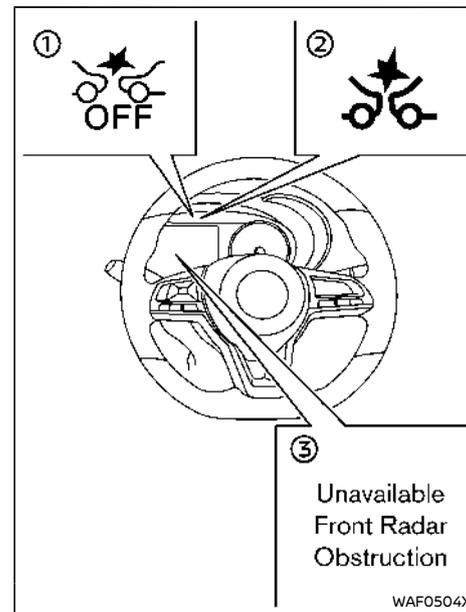


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When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the system to work inappropriately.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

## SYSTEM TEMPORARILY UNAVAILABLE



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- ① Intelligent Emergency Braking system off indicator light (orange)
- ② Intelligent Emergency Braking system warning light (orange)
- ③ Warning message

### Condition A

When the radar sensor picks up interference from another radar source, making it impossible to detect a vehicle ahead, the Intelligent Emergency Braking system is automatically

turned off.

The Intelligent Emergency Braking system warning light (orange) will illuminate.

#### Action to take

When the above conditions no longer exist, the Intelligent Emergency Braking system will resume automatically.

#### Condition B

In the following condition, the Intelligent Emergency Braking system warning light (orange) will illuminate, and the "Unavailable: Front Radar Obstruction" warning message will appear in the vehicle information display.

- The sensor area on the front of the vehicle is covered with dirt or is obstructed.

#### Action to take

If the warning light (orange) comes on, stop the vehicle in a safe place and turn the e-POWER system off. Clean the radar cover on the front of the vehicle with a soft cloth, and restart the e-POWER system. If the warning light continues to illuminate, have the Intelligent Emergency Braking system checked by a NISSAN dealer.

- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to long walls).

#### Action to take

When the above conditions no longer exist, the Intelligent Emergency Braking system will resume automatically.

#### Condition C

When Vehicle Dynamic Control (VDC) system is OFF, the Intelligent Emergency Braking system will not operate. In this case only visible and audible warning operates. The Intelligent Emergency Braking system off indicator light (orange) will illuminate.

ange) will illuminate.

#### Action to take

When the VDC system is ON, the Intelligent Emergency Braking system will resume automatically.

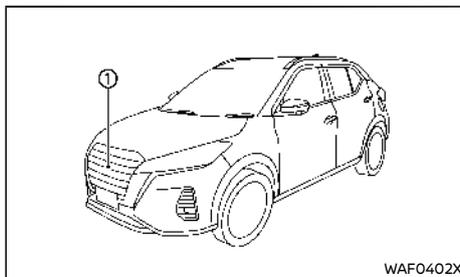
#### SYSTEM MALFUNCTION

If the Intelligent Emergency Braking system malfunctions, it will be turned off automatically, a chime will sound, the Intelligent Emergency Braking system warning light (orange) will illuminate and the "Malfunction: See Owner's Manual" warning message will appear in the vehicle information display.

#### Action to take:

If the Intelligent Emergency Braking system warning light (orange) comes on, stop the vehicle in a safe location. Turn the e-POWER system off and restart the e-POWER system. If the warning light continues to illuminate, have the Intelligent Emergency Braking system checked by a NISSAN dealer.

#### SYSTEM MAINTENANCE



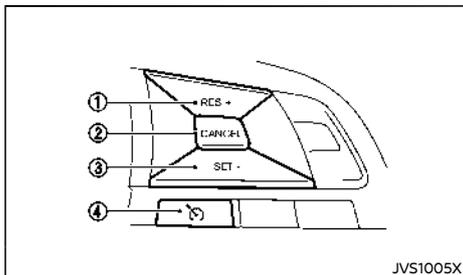
The sensor ① is located on the front of the vehicle.

To keep the system operating properly, be sure to observe the following:

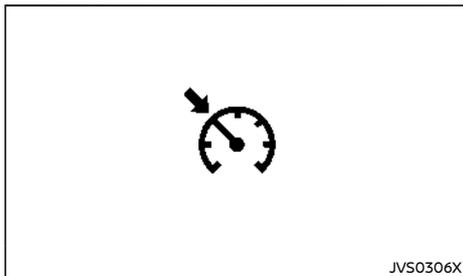
- Always keep the sensor area on the front of the vehicle clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects on the front of the vehicle near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front of the vehicle near the sensor area. Contact a NISSAN dealer before customizing or restoring the sensor area.

For the radio approval numbers and information, see "Radio approval number and information" (P.9-8).

## CRUISE CONTROL (if equipped)



- ① RES/+ switch
- ② CANCEL switch
- ③ SET/- switch
- ④ Cruise ON/OFF switch



Cruise indicator

The cruise indicator and the set vehicle speed are displayed in the vehicle information display. The cruise indicator indicates the status of the cruise control system by the color.



### WARNING:

- Always observe the posted speed limits and do not set the speed over them.

- Do not use the cruise control when driving under the following conditions. Doing so could cause a loss of vehicle control and result in an accident.

- When it is not possible to keep the vehicle at a constant speed
- When driving in heavy traffic
- When driving in traffic that varies speed
- When driving in windy areas
- When driving on winding or hilly roads
- When driving on slippery (rain, snow, ice, etc.) roads

### PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it will cancel automatically. The cruise indicator in the vehicle information display will then blink to warn the driver.
- If the cruise indicator blinks, turn the Cruise ON/OFF switch off and have the system checked by a NISSAN dealer.
- The cruise indicator may blink when the Cruise ON/OFF switch is turned ON while pushing the RES/+, SET/-, or CANCEL switch. To properly set the cruise control system, perform the following procedures.

### CRUISE CONTROL OPERATIONS

The cruise control allows driving at speeds above 40 km/h (25 MPH) without keeping your foot on the accelerator pedal.

The cruise control will automatically be canceled if the vehicle slows down more than approximately 10 km/h (6 MPH) below the set speed.

Moving the shift lever to the “N” (Neutral) position will cancel the cruise control.

### Turning on cruise control

Push the Cruise ON/OFF switch. The cruise indicator (white) will illuminate in the vehicle information display.

### Setting cruising speed

1. Accelerate to the desired speed.
2. Push the SET/- switch and release it.
3. The cruise indicator (green) illuminates in the vehicle information display.
4. Take your foot off the accelerator pedal.

The vehicle will maintain the set speed.

### Passing another vehicle:

Depress the accelerator pedal to accelerate. After releasing the accelerator pedal, the vehicle will return to the previously set speed.

The vehicle may not maintain the set speed when going up or down steep hills. In such cases, drive without the cruise control.

### Resetting to slower speed:

Use any one of the following methods to reset to a slower speed.

- Lightly tap the foot brake pedal. When the vehicle reaches the desired speed, push and release the SET/- switch.
- Push and hold the SET/- switch. When the vehicle reaches the desired speed, release the SET/- switch.
- Quickly push and release the SET/- switch. This will reduce the vehicle speed by about 1 km/h (1 MPH).

## INTELLIGENT CRUISE CONTROL (ICC) (if equipped)

### Resetting to faster speed:

Use any one of the following methods to reset to a faster speed.

- Depress the accelerator pedal. When the vehicle reaches the desired speed, push and release the SET/- switch.
- Push and hold the RES/+ switch. When the vehicle reaches the desired speed, release the RES/+ switch.
- Quickly push and release the RES/+ switch. This will increase the vehicle speed by about 1 km/h (1 MPH).

### Resuming at 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).

### Cancelling cruising speed

Use any one of the following methods to cancel the set speed.

- Push the CANCEL switch. The cruise indicator will change from green to white.
- Tap the foot brake pedal. The cruise indicator will change from green to white.
- Push the cruise control Cruise ON/OFF switch. The cruise indicator will turn off.



### 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 highway use only and it is not intended for congested areas or city driving. Failure to apply the brakes could result in an accident.**
- **The ICC system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely, and be in control of the vehicle at all times.**
- **Always observe posted speed limits and do not set the speed over them.**
- **Always drive carefully and attentively when using either cruise control mode. Read and understand the Owner's Manual thoroughly before using the cruise control. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle's speed in emergency situations. Do not use cruise control except in appropriate road and traffic conditions.**
- **In the conventional (fixed speed) cruise control mode, a warning chime will not sound to warn you if you are too close to the vehicle ahead. Pay special attention to the distance between your vehicle and the vehicle ahead of you or a collision could occur.**

The ICC system maintains a selected distance from the vehicle in front of you within the following speed up to the set speed.

- 0 to 144 km/h (0 to 90 MPH)

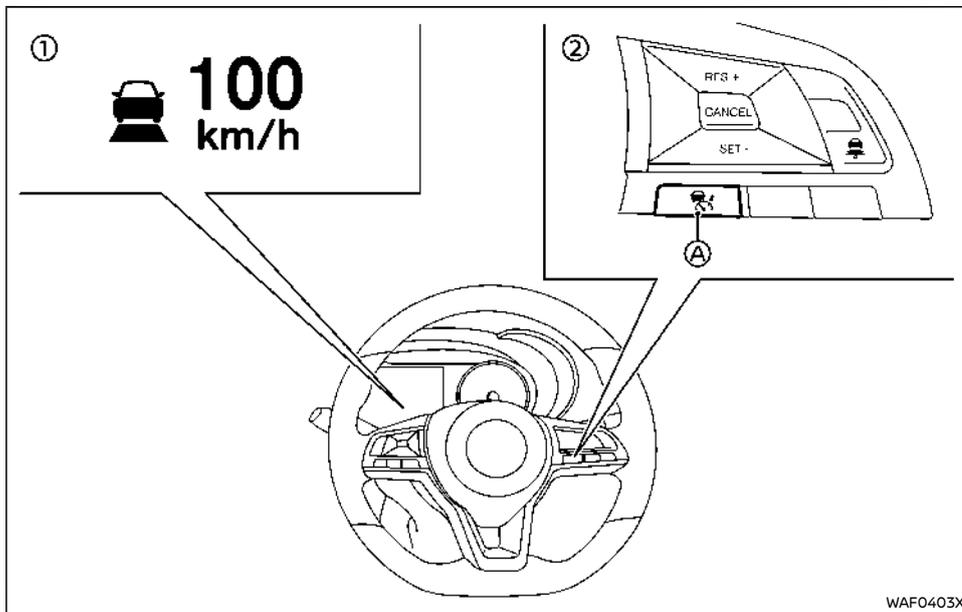
The set speed can be selected by the driver between the following speeds.

- 30 to 144 km/h (20 to 90 MPH)

The vehicle travels at a set speed when the road ahead is clear.

The ICC system can be set to one of two cruise control modes.

- **Vehicle-to-vehicle distance control mode:**  
For maintaining a selected distance between your vehicle and the vehicle in front of you up to the preset speed.
- **Conventional (fixed speed) cruise control mode:**  
For cruising at a preset speed.



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- ① Displays and indicators
- ② ICC switches
- Ⓐ Cruise ON/OFF switch

Push the Cruise ON/OFF switch Ⓐ to choose the cruise control mode between the vehicle-to-vehicle distance control mode and the conventional (fixed speed) cruise control mode.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the Cruise ON/OFF switch Ⓐ once to turn the system off. Then push the Cruise ON/OFF switch Ⓐ again to turn

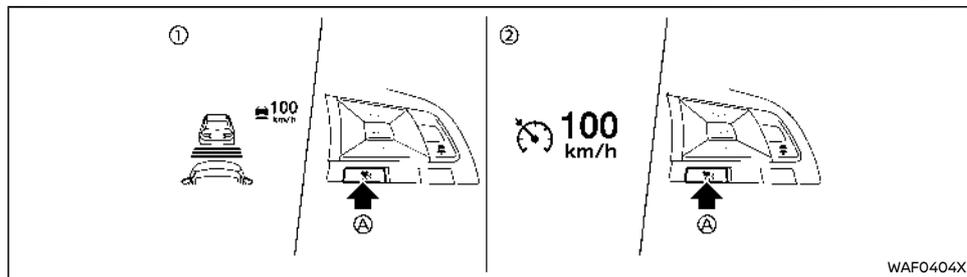
the system back on and select the desired cruise control mode.

Always confirm the setting in the ICC system display.

For the vehicle-to-vehicle distance control mode, see "Vehicle-to-vehicle distance control mode" (P.5-33).

For the conventional (fixed speed) cruise control mode, see "Conventional (fixed speed) cruise control mode" (P.5-42).

## HOW TO SELECT THE CRUISE CONTROL MODE



### Selecting the vehicle-to-vehicle distance control mode

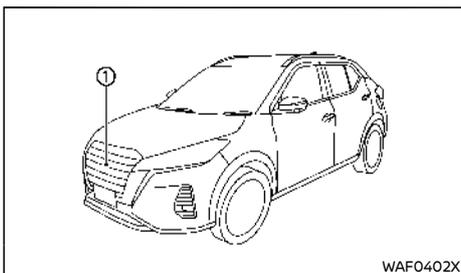
To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the Cruise ON/OFF switch (A).

### Selecting the conventional (fixed speed) cruise control mode

To choose the conventional (fixed speed) cruise control mode ②, push and hold the Cruise ON/OFF switch (A) for longer than approximately 1.5 seconds. See "Conventional (fixed speed) cruise control mode" (P.5-42).

## VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

In the vehicle-to-vehicle distance control mode, the ICC system automatically maintains a selected distance from the vehicle traveling in front of you according to that vehicle's speed (up to the set speed), or at the set speed when the road ahead is clear.



The system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

If the radar sensor ① 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 traveling lane ahead or if a vehicle traveling ahead rapidly decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning chime and blink the system display to notify the driver to take necessary action.

The system will cancel and a warning chime will sound if the speed is below approximately 25 km/h (15 MPH) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed.

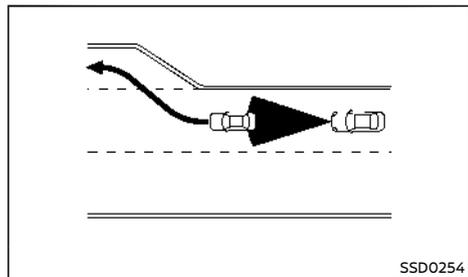
See "Approach warning" (P.5-37).

The following items are controlled in the vehicle-to-vehicle distance control mode:

- When there are no vehicles traveling ahead, the vehicle-to-vehicle distance control mode maintains the speed set by the driver. The set speed range is the following speed.
  - 30 and 144 km/h (20 and 90 MPH)

- When there is a vehicle traveling ahead, the vehicle-to-vehicle distance control mode adjusts the speed to maintain the distance, selected by driver, from the vehicle ahead. The adjusting speed range is up to the set speed. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges a standstill with a warning chime.
- When the vehicle traveling ahead has moved out from its lane of travel, the vehicle-to-vehicle distance control mode accelerates and maintains vehicle speed up to the set speed.

The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.



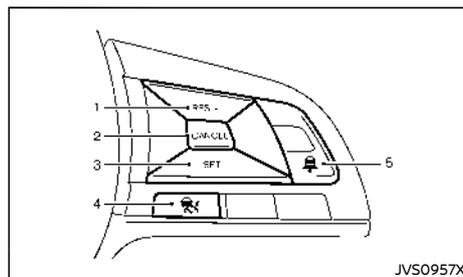
When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC system will adjust the speed to maintain the distance, selected by the driver, from the vehicle ahead. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate and maintain the speed up to the

set speed. Pay attention to the driving operation to maintain control of the vehicle as it accelerates to the set speed.

The vehicle may not maintain the set speed on winding or hilly roads. If this occurs, you will have to manually control the vehicle speed.

Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

### Vehicle-to-vehicle distance control mode switches

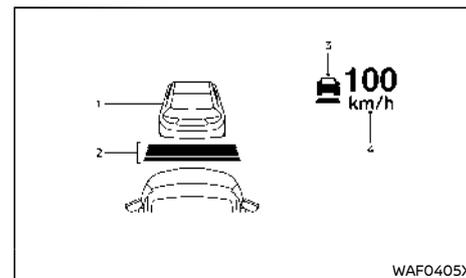


The system is operated by a Cruise ON/OFF switch and four control switches, all mounted on the steering wheel.

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.
4. Cruise ON/OFF switch:  
Master switch to activate the system
5. DISTANCE switch:  
Changes the vehicle's following distance:
  - Long
  - Middle
  - Short

### Vehicle-to-vehicle distance control mode display and indicators

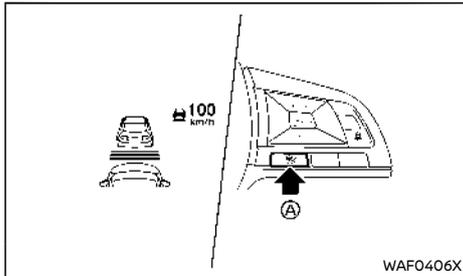


The display is located on the left side of the speedometer.

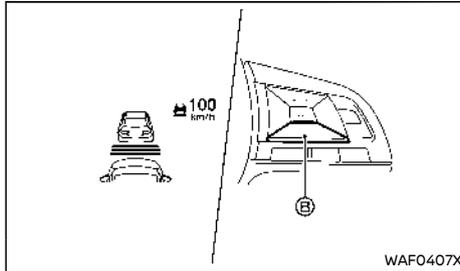
1. Vehicle ahead detection indicator:  
Indicates whether it detects a vehicle in front of you.
2. Set distance indicator:  
Displays the selected distance between vehicles set with the DISTANCE switch.

3. This indicator indicates the ICC system status depending on a color.
  - ICC system ON indicator (gray):  
Indicates that the Cruise ON/OFF switch is ON.
  - ICC system set indicator (green):  
Indicates that cruising speed is set
  - ICC system warning (yellow):  
Indicates that there is a malfunction in the ICC system.
4. Set vehicle speed indicator:  
Indicates the set vehicle speed.

### Operating vehicle-to-vehicle distance control mode



**To turn on the cruise control**, quickly push and release the Cruise ON/OFF switch (A). The ICC system ON indicator (gray), set distance indicator and set vehicle speed indicator come on and in a standby state for setting.



**To set cruising speed**, accelerate your vehicle to the desired speed, push the SET/- switch (B) 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 (B) is pushed under the following conditions, the system cannot be set and the ICC indicators will blink for approximately 2 seconds:

- When traveling below 30 km/h (20 MPH) and the vehicle ahead is not detected
- When the shift lever is not in the "D" (Drive) or "B" position
- When the parking brake is applied
- When the brakes are operated by the driver

When the SET/- switch (B) is pushed under the following conditions, the system cannot be set.

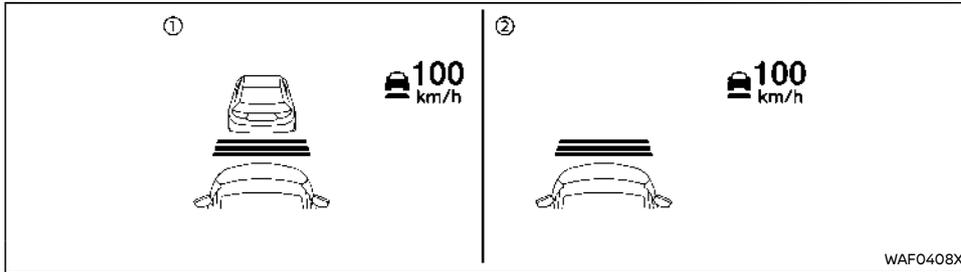
A warning chime will sound and a message will pop up:

- When the VDC system is off (To use the ICC system, turn on the VDC system. Push the Cruise ON/OFF switch to turn off the ICC system and reset the ICC system by push-

ing the Cruise ON/OFF switch again.)

For additional information about the VDC system, see "Vehicle Dynamic Control (VDC) system" (P.5-11).

- When VDC (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 stoplights of the vehicle come on when braking is performed by the ICC system.
- When the brake operates, a noise may be heard. This is not a malfunction.

When a vehicle ahead is detected, the vehicle ahead detection indicator comes on. The ICC system will also display the set speed and

selected distance.

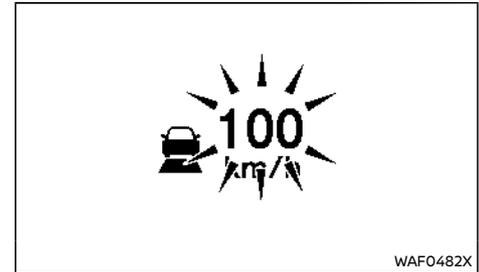
#### Vehicle ahead not detected:

When a vehicle is no longer detected ahead, the ICC system gradually accelerates your vehicle to resume the previously set vehicle speed. The ICC system then maintains the set speed.

When a vehicle is no longer detected the vehicle ahead detection indicator turns off.

If a vehicle ahead appears during acceleration to the set vehicle speed or any time the ICC system is in operation, the system controls the distance to that vehicle.

When a vehicle is no longer detected under approximately 25 km/h (15 MPH), the system will be canceled.



**When passing another vehicle,** the 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.

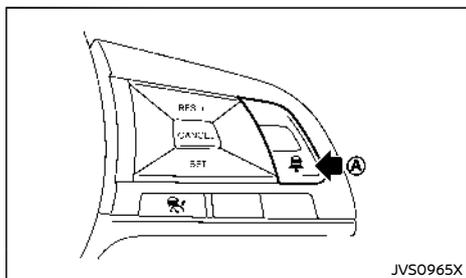
- Push and hold the RES/+ switch. The set vehicle speed will increase by approximately 5 km/h (5 MPH).
- Push, then quickly release the RES/+ switch. Each time you do this, the set speed will increase by approximately 1 km/h (1 MPH).

**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 5 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 30km/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 (A) 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 (60 MPH) [m (ft)]
Long		60 (200)
Middle		45 (150)
Short		30 (100)

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- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- The distance setting will remain at the current setting even if the e-POWER system is restarted.

### Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
  - The vehicle ahead detection indicator blink.
- The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:
- When the vehicles are traveling at the same speed and the distance between vehicles is not changing
  - When the vehicle ahead is traveling faster and the distance between vehicles is increasing
  - When a vehicle cuts in near your vehicle
- The warning chime will not sound when:
- Your vehicle approaches other vehicles that are parked or moving slowly.
  - The accelerator pedal is depressed, overriding the system.

**NOTE:**

**The approach warning chime may sound and the system display may blink when the radar sensor detects objects on the side of the vehicle or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The radar sensor may detect these objects when the vehicle is driven on winding roads, narrow roads, hilly roads or when entering or exiting a curve. In these cases you will have to manually control the proper distance ahead of your vehicle.**

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

### Acceleration when passing

When the ICC system is engaged above 70 km/h (45 MPH) and following a slower vehicle (below ICC set speed), and the turn signal is activated to the right, the ICC system will automatically start to accelerate the vehicle to help initiate passing on the right and will begin to reduce the distance to vehicle directly ahead. Only the right side turn signal operates this feature. As the driver steers the vehicle and moves into the passing lane, if no vehicle is detected ahead the ICC system will continue to accelerate to the ICC system set speed. If another vehicle is detected ahead, then the vehicle will accelerate up to the following speed of that vehicle. If the vehicle is not steered into the right lane to pass, the acceleration will stop after a short time and regain the set following distance. Acceleration can be stopped at any point by depressing the brake pedal or the CANCEL switch on the steering wheel.



**WARNING:**

**In order to reduce the risk of a collision that may result in serious injury or death, please be aware of the following:**

- **This function is only activated with the right turn signal and will briefly accelerate the vehicle even if a lane change is not initiated. This can include non-passing situations such as right side exits.**
- **Ensure that when passing another vehicle, the adjacent lane is clear before initiating the pass. Sudden changes in traffic may occur while passing always manually steer or brake as needed never solely rely on the system.**

### Automatic cancellation

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle ahead is not detected and your vehicle is traveling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at standstill
- When the shift lever is not in the “D” (Drive) position or “B” position
- When the parking brake is applied
- When the VDC system is turned off
- When VDC (including the traction control system) operates
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips
- When the radar signal is temporarily interrupted
- 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:

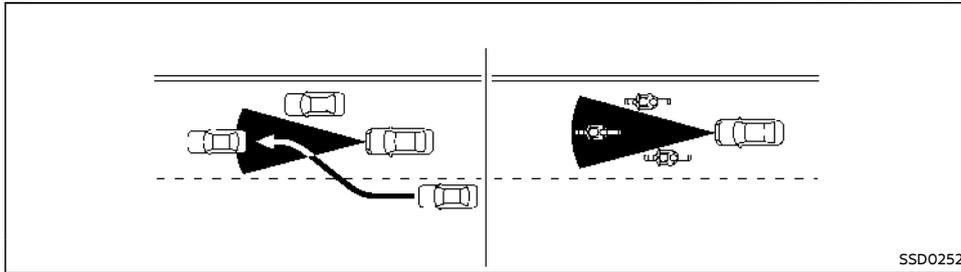
- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

The sensor generally detects the signals returned from the vehicle ahead. Therefore, if the sensor cannot detect the reflection from the vehicle ahead, the ICC system may not maintain the selected distance.

The following are some conditions in which the sensor cannot detect the signals:

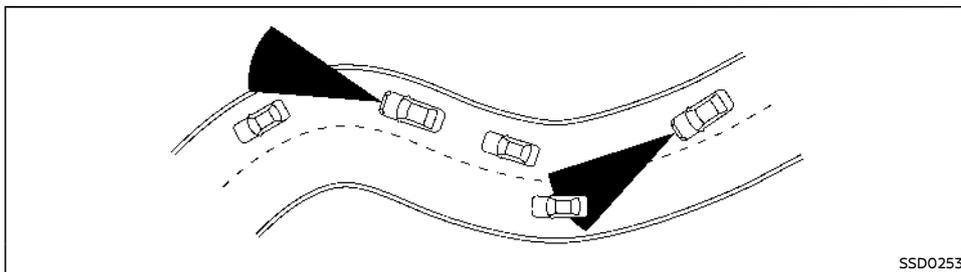
- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage compartment of your vehicle

The ICC system is designed to automatically check the sensor's operation within the limitation of the system. When the sensor is covered with dirt or is obstructed, the system will automatically be canceled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the ICC system may not detect them. In these instances, the vehicle-to-vehicle distance control mode may not cancel and may not be able to maintain the selected following distance from the vehicle ahead. Be sure to check and clean the sensor regularly.



The detection zone of the radar sensor is limited. A vehicle ahead must be in the detection zone for the vehicle-to-vehicle distance detection mode to maintain the selected distance from the vehicle ahead.

A vehicle ahead may move outside of the detection zone due to its position within the same lane of travel. Motorcycles may not be detected in the same lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is entering the lane ahead may not be detected until the vehicle has completely moved into the lane. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.**



When driving on some roads, such as winding, hilly, curved, narrow roads, or roads which are under construction, the radar sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle traveling ahead. This may cause the ICC system to decelerate or accelerate the vehicle.

The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to manually control the proper distance away from the vehicle traveling ahead.**

### System temporarily unavailable

The following are conditions in which the ICC system may be temporarily unavailable. In these instances, the ICC system may not cancel and may not be able to maintain the selected following distance from the vehicle ahead.

#### Condition A:

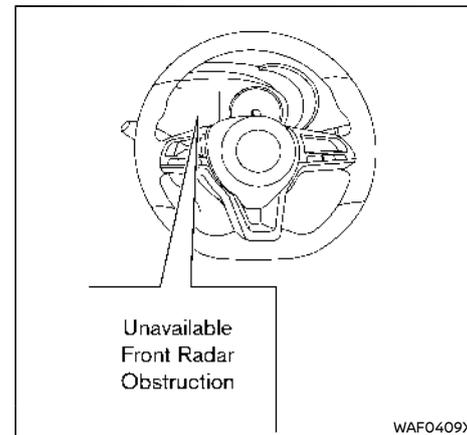
Under the following conditions, the ICC system is automatically canceled. A chime will sound and the system will not be able to be set:

- When the VDC is turned off
- When the VDC (including the traction control system) operates
- When a vehicle ahead is not detected and your vehicle is traveling below the speed of 25 km/h (15 MPH)
- When the system judges the vehicle is at a standstill
- When the shift lever is not in the "D" (Drive) or "B" position
- When the parking brake is applied
- When a tire 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 "Unavailable Front Radar Obstruction" 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 e-POWER system off. When the radar signal is temporarily interrupted, clean the sensor area and restart the e-POWER system. If the "Unavailable Front Radar Obstruction" warning message continues to be displayed, have the ICC system checked by a NISSAN dealer.

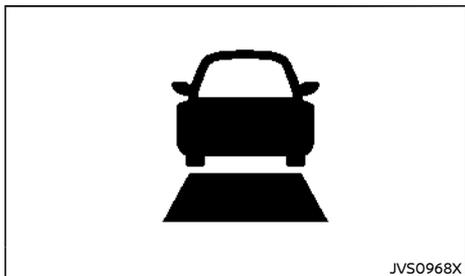
- When driving on roads with limited road structures or buildings (for example, long bridges, deserts, snow fields, driving next to

long walls), the system may illuminate the ICC system warning (yellow) and display the "Unavailable Front Radar Obstruction" 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:



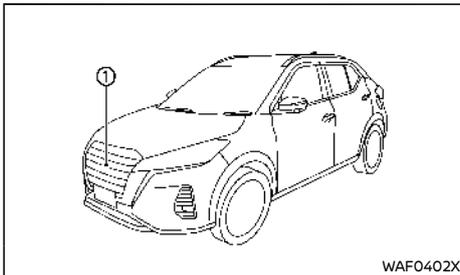
When the ICC system is not operating properly, the chime sounds and the ICC system warning (yellow) will appear.

#### Action to take:

If the warning appears, park the vehicle in a safe place. Turn the e-POWER system off, restart the e-POWER 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 NISSAN dealer for this service.**

## System maintenance



The sensor for the ICC system ① is located on the front of the vehicle.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor area clean.
- Do not strike or damage the areas around the sensor.
- Do not cover or attach stickers or similar objects near the sensor area. This could cause failure or malfunction.
- Do not attach metallic objects near the sensor area (brush guard, etc.). This could cause failure or malfunction.
- Do not alter, remove or paint the front bumper. Contact a NISSAN dealer before customizing or restoring the front bumper.

For the radio approval numbers and information, see "Radio approval number and information" (P.9-8).

## CONVENTIONAL (fixed speed) CRUISE CONTROL MODE

This mode allows driving at speeds:

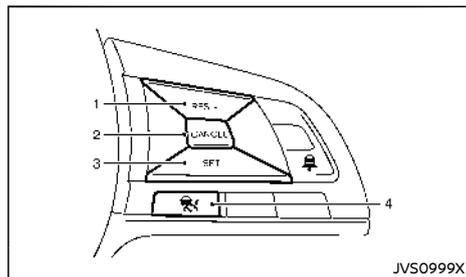
- between 40 km/h to 144 km/h (25 to 90 MPH) without keeping your foot on the accelerator pedal



#### WARNING:

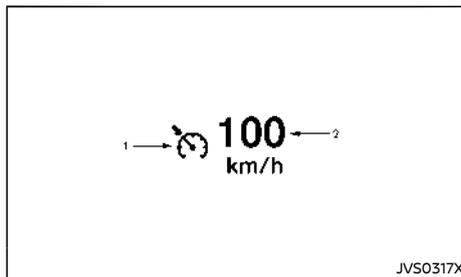
- **In the conventional (fixed speed) cruise control mode, a warning chime does not sound to warn you if you are too close to the vehicle ahead, as neither the presence of the vehicle ahead nor the vehicle-to-vehicle distance is detected.**
- **Pay special attention to the distance between your vehicle 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 the desired cruise speed, reduces speed incrementally.
4. Cruise ON/OFF switch:  
Master switch to activate the system.

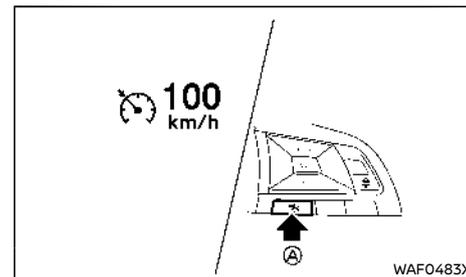
## Conventional (fixed speed) cruise control mode display and indicators



The display is located in the vehicle information display.

1. Cruise indicator:  
This indicator indicates the condition of ICC system depending on a color.
  - Cruise control ON indicator (gray):  
Indicates that the Cruise ON/OFF switch is ON.
  - Cruise control set indicator (green):  
Displays while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.
  - Cruise system warning (yellow):  
Indicates that there is a malfunction in the ICC system.
2. Set vehicle speed indicator:  
This indicator indicates the set vehicle speed.

## Operating conventional (fixed speed) cruise control mode



**To turn on the conventional (fixed speed) cruise control mode**, push and hold the Cruise ON/OFF switch (A) for longer than about 1.5 seconds.

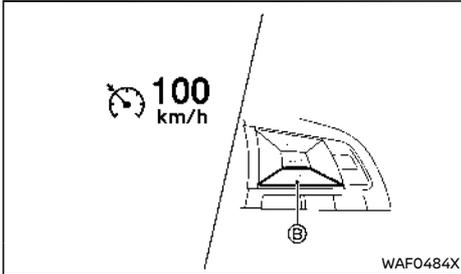
When pushing the Cruise ON/OFF switch on, the conventional (fixed speed) cruise control mode display and indicators are displayed in the vehicle information display. After you hold the Cruise ON/OFF switch on for longer than about 1.5 seconds, the ICC system display goes out. The cruise indicator appears. 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 (B) and release it. (The color 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:

1. Push the CANCEL switch. The vehicle speed indicator will turn off.
2. Tap the brake pedal. The vehicle speed indicator will turn off.

3. 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:

1. Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET/- switch.
2. Push and hold the RES/+ switch. When the vehicle attains the desired speed, release the switch.
3. 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:

1. Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET/- switch and release it.
2. Push and hold the SET/- switch. Release the switch when the vehicle slows down to the desired speed.
3. Push, then quickly release the SET/- switch. Each time you do this, the set speed will decrease by about 1 km/h (1 MPH).

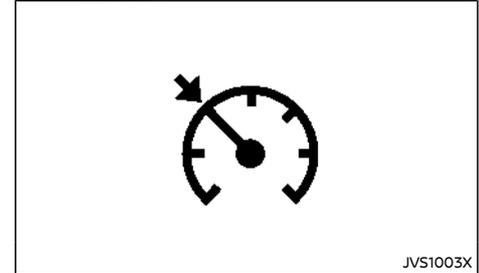
To resume the preset speed, push and release the RES/+ switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 40 km/h (25 MPH).

### System temporarily unavailable

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle slows down more than 13 km/h (8 MPH) below the set speed
- When the shift lever is not in the "D" (Drive) or "B" position
- When the parking brake is applied
- When the VDC (including the traction control system) operates
- When a wheel slips

### Warning



When the system is not operating properly, the chime sounds and the color of the cruise indicator will change to yellow.

### Action to take:

If the color of the cruise indicator changes to yellow, park the vehicle in a safe place. Turn the e-POWER system off, restart the e-POWER 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

## FUEL EFFICIENCY AND CARBON DIOXIDE REDUCTION DRIVING TIPS

vehicle checked by a NISSAN dealer.

Follow these easy-to-use Fuel Efficiency and Carbon Dioxide Reduction Driving Tips to help you achieve the most fuel economy from your vehicle and reduce carbon dioxide emissions.

1. Use smooth accelerator and brake pedal application.
  - Avoid rapid starts and stops.
  - Use smooth, gentle accelerator and brake application whenever possible.
  - Maintain constant speed while commuting and coast whenever possible.
2. Maintain constant speed.
  - Look ahead to try and anticipate and minimize stops.
  - Synchronizing your speed with traffic lights allows you to reduce your number of stops.
  - Maintaining a steady speed can minimize red light stops and improve fuel efficiency.
3. Drive at economical speeds and distances.
  - Observing the speed limit and not exceeding 97 km/h (60 MPH) (where legally allowed) can improve fuel efficiency due to reduced aerodynamic drag.
  - Maintaining a safe following distance behind other vehicles reduces unnecessary braking.
  - Safely monitoring traffic to anticipate changes in speed permits reduced braking and smooth acceleration changes.
  - Select a gear range suitable to road conditions.
4. Use cruise control.
  - Using cruise control during highway driving helps maintain a steady speed.
5. Plan for the shortest route.
  - Cruise control is particularly effective in providing fuel savings when driving on flat terrains.
  - Utilize a map or navigation system (if equipped) to determine the best route to save time.
6. Avoid idling.
  - Shutting off your engine when safe for stops exceeding 30-60 seconds saves fuel and reduces emissions.
7. Buy an automated pass for toll roads.
  - Automated passes permit drivers to use special lanes to maintain cruising speed through the toll and avoid stopping and starting.
8. Winter warm up.
  - Limit idling time to minimize impact to fuel economy.
  - Vehicles typically need no more than 30 seconds of idling at start-up to effectively circulate the engine oil before driving.
  - Your vehicle will reach its ideal operating temperature more quickly while driving versus idling.
9. Keeping your vehicle cool.
  - Park your vehicle in a covered parking area or in the shade whenever possible.
  - When entering a hot vehicle, opening the windows will help to reduce the inside temperature faster, resulting in reduced demand on your A/C system.
10. Do not carry excessive weight.
  - Remove unnecessary objects from the vehicle to reduce vehicle weight.

## INCREASING FUEL ECONOMY AND REDUCING CARBON DIOXIDE EMISSIONS

- Keep your engine tuned up.
- Follow the recommended scheduled maintenance.
- Keep the tires inflated to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Use the recommended viscosity engine oil. (See "Recommended fluids/lubricants and capacities" (P.9-2).)

## INTELLIGENT DRIVER ALERTNESS (if equipped)

The Intelligent Driver Alertness system helps alert the driver if the system detects a lack of attention or driving fatigue.

The system monitors driving style and steering behavior over a period of time, and it detects changes from the normal pattern. If the system detects that driver attention is decreasing over a period of time, the system uses an audible and visual warning to suggest that the driver take a break.



### WARNING:

**This system is not designed to assist driving impaired due to fatigue, or other causes. Be attentive at all times, and avoid driving when tired. Failure to do so could cause you to lose control of the vehicle, resulting in a serious accident.**

### SYSTEM OPERATION



If the system detects that driver attention is decreasing, the message "Take a break?" appears in the vehicle information display and a buzzer sounds when the vehicle is driven at speeds above 60 km/h (37 MPH).

### TURNING THE INTELLIGENT DRIVER ALERTNESS SYSTEM ON AND OFF

To activate or deactivate this function, see "Settings" (P.2-14).

#### NOTE:

**The setting will be retained even if the e-POWER system is restarted.**

### SYSTEM MALFUNCTION

If the Intelligent Driver Alertness system malfunctions, the system warning message will appear in the vehicle information display and the function will be stopped automatically.

#### Action to take:

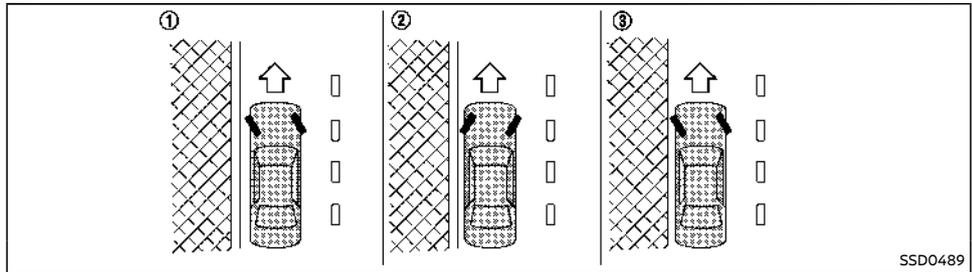
Stop the vehicle in a safe location, and then turn off and restart the e-POWER system. If the system warning message continues to appear, have the system checked by a NISSAN dealer.

## PARKING



### WARNING:

- Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.
- Safe parking procedures require that both the parking brake be applied and the shift position placed in the "P" (Park) position. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.
- When parking the vehicle, make sure the vehicle is placed in the "P" (Park) position. The shift position cannot be moved out of the "P" (Park) position without depressing the foot brake pedal.
- Never leave the e-POWER system running while the vehicle is unattended.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.
- To help avoid risk of injury or death through unintended operation of the vehicle and/or its systems, do not leave children, people who require the assistance of others or pets unattended in your vehicle. Additionally, the temperature inside a closed vehicle on a warm day can quickly become high enough to cause a significant risk of injury or death to people and pets.



SSD0489

1. Firmly apply the parking brake.
2. push the P position switch to engage the "P" (Park) position.
3. To help prevent the vehicle from moving into traffic when parked on an incline, it is a good practice to turn the wheels as illustrated.

#### HEADED DOWNHILL WITH CURB ①

Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb. Then apply the parking brake.

#### HEADED UPHILL WITH CURB ②

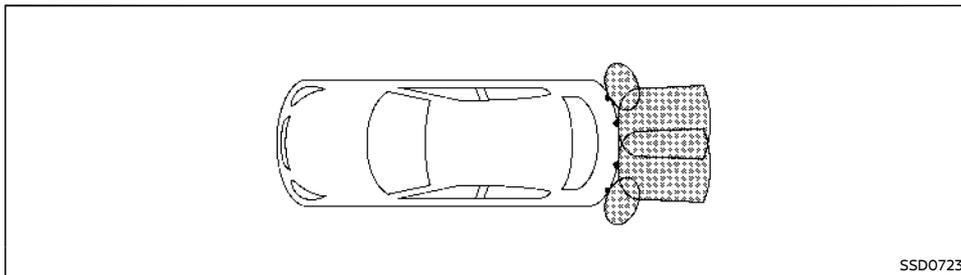
Turn the wheels away from the curb and allow the vehicle to move back until the curb side wheel gently touches the curb. Then apply the parking brake.

#### HEADED UPHILL OR DOWNHILL, WITHOUT CURB ③

Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if the vehicle moves. Then apply the parking brake.

4. Place the power switch in the "OFF" position.

## PARKING SENSOR (sonar) SYSTEM (if equipped)



### WARNING:

- The parking sensor (sonar) system is a convenience but it is not a substitute for proper parking. Always look around and check that it is safe to do so before parking. Always move slowly.
- Read and understand the limitations of the parking sensor (sonar) system as contained in this section. Inclement weather may affect the function of the parking sensor (sonar) system; this may include reduced performance or a false activation.
- This system is not designed to prevent contact with small or moving objects.
- 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.
- 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:

Keep the interior of the vehicle as quiet as possible to hear the tone clearly.

When the power switch is in the "ON" position, the parking sensor (sonar) system is operational.

The parking sensor (sonar) system sounds a tone to warn the driver of obstacles near the bumper. The system detects rear obstacles when the shift lever is in the "R" (Reverse) position. The system may not detect objects at speeds above 10 km/h (6 MPH) and may not detect certain angular or moving objects.

When the "Display" key is turned on in the Settings menu, the parking sensor indicator will also appear on the vehicle information display. (See "34. Parking sensor (sonar) indicator" (P.2-23).)

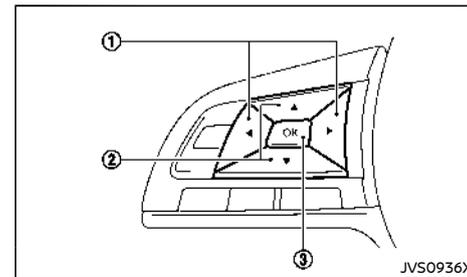
The parking sensor (sonar) system detects obstacles up to 1 m (3.3 ft) from the bumper with a decreased coverage area at the outer corners of the bumper (refer to the illustration

for approximate zone coverage areas). As you move closer to the obstacle, the rate of the tone increases. When the obstacle is less than 30 cm (11.8 in) away, the tone will sound continuously.

Keep the sonar sensors (located on the bumper fascia) free from snow, ice and large accumulations of dirt (do not clean the sensors with sharp objects). If the sensors are covered, it will affect the accuracy of the parking sensor (sonar) system.

**If the parking sensor (sonar) system malfunctions, the beep sounds for 3 seconds when the shift lever is moved to the "R" (Reverse) position. Have the system checked by a NISSAN dealer.**

## PARKING SENSOR (sonar) SYSTEM OFF SWITCH



The ◀ ▶ ①, ⬆ ② or "OK" ③ button on the steering wheel allows the driver to turn the parking sensor (sonar) system off.

**NOTE:**

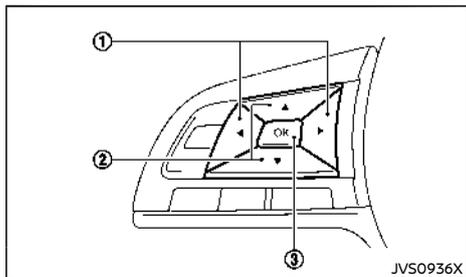
**When enabling/disabling the system, the system will retain current settings even if the e-POWER system is restarted.**

The parking sensor (sonar) system will turn on automatically under the following conditions.

- When the shift lever is placed in the "R" (Reverse) position from any other positions.
- When the vehicle speed decreases to approximately below 10 km/h (6 MPH).

The automatic turning on function can be turned on and off by "Driver Assistance" in the Settings menu. See "Parking sensor (sonar) system setting" (P.5-49).

## PARKING SENSOR (sonar) SYSTEM SETTING



Perform the following steps to select the parking sensor (sonar) setting mode.

1. Use the ◀ ▶ ① button on the steering wheel until "Settings" appears in the vehicle information display.
2. Use the ⬆ button ② to select "Driver Assistance". Then push OK ③.

3. Select "Parking Aids" and push OK ③.
4. Select "Sonar" and push OK ③.
5. Select a menu item to change from the following options.

- Rear Sensor
- Display
- Volume
- Range

### Rear Sensor

Activate or deactivate the use of parking sensor.

ON (default) - OFF

### Display

Automatically shows the parking sensor view on the vehicle information display when the parking sensor is activated.

ON (default) - OFF

### Volume

Adjust the tone volume of the parking sensor.

High - Med. (default) - Low

### Range

Adjust the detection range of the parking sensor.

Far - Mid (default) - Near

## TRAILER TOWING

Your vehicle was designed to be used to carry passengers and luggage. NISSAN does not recommend trailer towing, because it places additional loads on your vehicle's engine, drive-train, steering, braking, and other systems.



### CAUTION:

**Vehicle damage resulting from towing a trailer is not covered by the warranty.**

## ELECTRIC POWER STEERING



### WARNING:

- **If the e-POWER system is not running or is turned off while driving, the power assist for the steering will not work. The steering will be harder to operate.**
- **When the electric power steering warning light illuminates with the e-POWER system running, the power assist for the steering will cease operation. You will still have control of the vehicle but the steering will be harder to operate.**

The electric power steering is designed to provide power assist while driving to operate the steering wheel with light force.

When the steering wheel is operated repeatedly or continuously while parking or driving at a very low speed, the power assist for the steering wheel will be reduced. This is to prevent overheating of the electric power steering and protect it from getting damaged. While the power assist is reduced, steering wheel operation will become heavy. When the temperature of the electric power steering goes down, the power assist level will return to normal. Avoid repeating such steering wheel operations that could cause the electric power steering to overheat.

You may hear a fricative sound when the steering wheel is operated quickly. However, this is not a malfunction.

If the electric power steering warning light  illuminates while the e-POWER system is running, it may indicate the electric power steering is not functioning properly and may need servicing. Have the electric power steering checked by a NISSAN dealer. (See "Electric power steering warning light" (P.2-10).)

When the electric power steering warning light

illuminates with the e-POWER system running, the power assist for the steering will cease operation. You will still have control of the vehicle. However, greater steering effort is needed, especially in sharp turns and at low speeds.

## BRAKE SYSTEM

### BRAKE 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 regenerative brake system is to provide some power to help recharge the Lithium ion (Li-ion) battery and extend driving range. A secondary benefit is "engine braking" that operates based on battery conditions.

In the "D" (Drive) position, when the accelerator pedal 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 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. However, during high-speed driving you may feel that regenerative brake provides less deceleration than the engine braking in an ordinary vehicle. This is normal.

Less deceleration is provided by the regenerative brake system when the Li-ion battery is fully charged. Regenerative brake is automatically reduced when the Li-ion battery is fully charged to prevent the Li-ion battery from

## ANTI-LOCK BRAKING SYSTEM (ABS)

becoming overcharged.

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 e-POWER 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.**

### Using brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wearing 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 going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.



### WARNING:

**While driving on a slippery surface, be careful when braking or accelerating. Abrupt braking or accelerating could cause the wheels to skid, which could result in an accident.**

### Wet brakes

When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry the brakes, drive the vehicle at a safe speed while lightly depressing the foot brake pedal to heat up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

### Parking brake break-in

Break in the parking brake shoes whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums/rotors are replaced, in order to assure the best braking performance.

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

### BRAKE ASSIST

When the force applied to the brake pedal exceeds a certain level, the Brake Assist is activated, generating greater braking force than a conventional brake booster even with light pedal force.



### WARNING:

**The Brake Assist is only an aid to assist braking operation and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.**



### WARNING:

- **The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.**
- **Tire type and condition may also affect braking effectiveness.**
  - **When replacing tires, install the specified size of tires on all four wheels.**
  - **For detailed information, see "Tires and wheels" (P.8-24).**

The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

## USING SYSTEM

Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.



### **WARNING:**

**Do not pump the brake pedal. Doing so may result in increased stopping distances.**

## SELF-TEST FEATURE

The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the e-POWER system and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance.

If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked by a NISSAN dealer.

## NORMAL OPERATION

The ABS operates at speeds above 5 to 10 km/h (3 to 6 MPH). The speed varies according to road conditions.

When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

## VEHICLE SECURITY

When leaving your vehicle unoccupied:

- Always take the key with you - even when leaving the vehicle in your own garage.
- Close all windows completely and lock all doors.
- Always park your vehicle where it can be seen. Park in a well lit area during the night.
- If the security system is equipped, use it - even for a short period.
- Never leave children or pets in the vehicle unattended.
- Never leave valuables inside the vehicle. Always take valuables with you.
- Never leave the vehicle documents in the vehicle.
- Never leave articles on a roof rack. Remove them from the rack and keep and lock them inside the vehicle.
- Never leave the spare key in the vehicle.

## COLD WEATHER DRIVING



### WARNING:

- **Whatever the condition, drive with caution. Accelerate and decelerate with great care. If accelerating or decelerating too fast, the drive wheels will lose even more traction.**
- **Allow more stopping distance in cold weather driving. Braking should be started sooner than on dry pavement.**
- **Keep at a greater distance from the vehicle in front of you on slippery roads.**
- **Wet ice (0°C, 32°F and freezing rain), very cold snow and ice can be slick and very difficult to drive on. The vehicle will have a lot less traction or grip under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.**
- **Watch for slippery spots (glaring ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while actually on the ice, and avoid any sudden steering maneuvers.**
- **Do not use cruise control on slippery roads.**
- **Snow can trap dangerous exhaust gas under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.**

### 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" (P.8-15).

### ENGINE COOLANT

If the vehicle is to be left outside without anti-freeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see "Changing engine coolant" (P.8-6).

### TIRE EQUIPMENT

1. If you have snow tires installed on the front/rear wheels of your vehicle, they should be of the same size, loading range, construction and type (bias, bias-belted or radial) as the rear/front tires.
2. If the vehicle is to be operated in severe winter conditions, snow tires should be installed on all four wheels.
3. For additional traction on icy roads, studded tires may be used. However, some countries, provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.  
**Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.**
4. Snow chains may be used if desired. Make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's instructions. (See "Tire chains" (P.8-24).)

### SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during the winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snow-drifts.

### 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 to engage the "P" (Park) position
- Securely block the wheels.

To keep the electronic parking brake released after the e-POWER system is turned off, see "Parking brake" (P.3-22).

### CORROSION PROTECTION

Chemicals used for road surface deicing are extremely corrosive and will accelerate corrosion and the deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

**In the winter, the underbody must be cleaned periodically. For additional information, see "Corrosion protection" (P.7-5).**

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

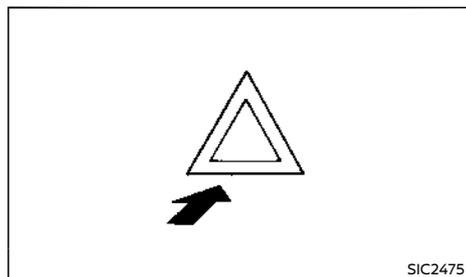
**MEMO**

# 6 In case of emergency

Hazard indicator flasher switch .....	6-2	If your vehicle overheats .....	6-7
Flat tire .....	6-2	Towing your vehicle .....	6-8
Repairing flat tire .....	6-2	Towing precautions .....	6-8
Jump starting .....	6-5	Towing e-POWER model .....	6-8
Push starting .....	6-7		



## HAZARD INDICATOR FLASHER SWITCH



The hazard indicator flasher switch operates with the power switch in any position except when the battery is discharged.

The hazard indicator flasher is used to warn other drivers when you have to stop or park under emergency conditions.

When the hazard indicator flasher switch is pushed, all turn signal lights will flash. To turn off the hazard indicator flasher, push the hazard indicator flasher switch again.

When an impact that could activate the supplemental air bags is detected, the hazard warning flasher lights blink automatically. If the hazard warning flasher switch is pushed, the hazard warning flashers will turn off.

### WARNING:

**Do not turn the hazard warning flasher switch to off until you can make sure that it is safe to do so. Also, the hazard flasher warning may not blink automatically depending on the force of impact.**

## FLAT TIRE

If you have a flat tire, follow the instructions as follows.

### REPAIRING FLAT TIRE

The emergency tire puncture repair kit is supplied with the vehicle instead of a spare tire. This repair kit must be used for temporarily fixing a minor tire puncture. After using the repair kit, see a NISSAN dealer as soon as possible for tire inspection and repair/replacement.

### CAUTION:

- **NISSAN recommends using only Genuine NISSAN Emergency Tire Sealant provided with your vehicle. Other tire sealants may damage the valve stem seal which can cause the tire to lose air pressure.**
- **Do not use the emergency tire puncture repair kit provided with your vehicle on other vehicles.**
- **Do not use the emergency tire puncture repair kit for a purpose other than to inflate and check the tire pressure for the vehicle.**
- **Use the emergency tire puncture repair kit only on DC12V.**
- **Keep water and dust off the emergency tire puncture repair kit.**
- **Do not disassemble or modify the emergency tire puncture repair kit.**
- **Do not galvanize the emergency tire puncture repair kit.**
- **Do not use the emergency tire puncture repair kit under the following conditions. Contact a NISSAN dealer or professional road assistance.**
  - when the sealant has passed its

**expiration date (shown on the label attached to the bottle)**

- when the cut or the puncture is approximately 6 mm (0.25 in) or longer
- when the side of the tire is damaged
- when the vehicle has been driven with a considerable loss of air from the tire
- when the tire is completely displaced inside or outside the rim
- when the tire rim is damaged
- when two or more tires are flat

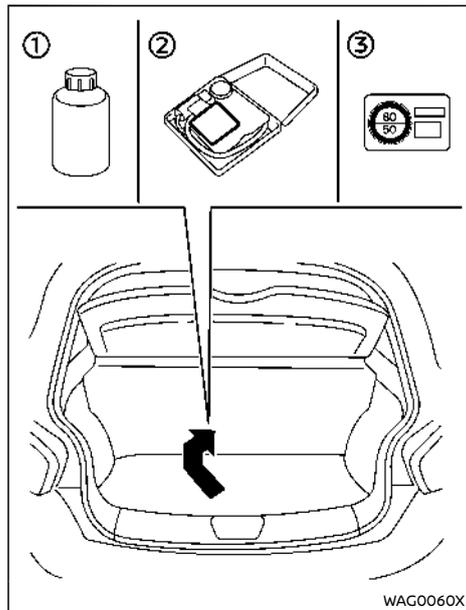
### Stopping vehicle

### WARNING:

- **Make sure the parking brake is securely applied and the vehicle is placed into the "P" (Park) position.**
  - **Never repair tires when the vehicle is on a slope, ice or slippery area. This is hazardous.**
  - **Never repair tires when the oncoming traffic is close to your vehicle. Call for professional road assistance.**
1. Safely move the vehicle off the road away from traffic.
  2. Turn on the hazard indicator flasher lights.
  3. Park on a level surface.
  4. Apply the parking brake.
  5. Push the P position switch to engage the "P" (Park) position.
  6. Turn off the e-POWER system.

7. Open the hood and set up the warning triangle (if equipped):
  - To warn other traffic.
  - To signal professional road assistance personnel that you need assistance.
8. Have all passengers get out from the vehicle and stand in a safe place, away from other traffic and clear of the vehicle.

### Getting emergency tire puncture repair kit



Take out the emergency tire puncture repair kit

from the storage area under the luggage floor board. The repair kit consists of the following items:

- ① Tire sealant bottle
- ② Air compressor\*
- ③ Speed restriction sticker\*

\*: The compressor shape and the sticker design may differ depending on the models.

### Before using emergency tire puncture repair kit

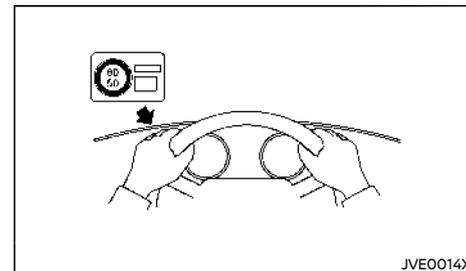
- If any foreign object (for example, a screw or nail) is embedded in the tire, do not remove it.
- Check the expiration date of the sealant (shown on the label attached to the bottle). Never use a sealant whose expiration date has passed.

### Repairing tire

#### **WARNING:**

Observe the following precautions when using the emergency tire puncture repair kit.

- Swallowing the compound is dangerous. Immediately drink as much water as possible and seek prompt medical assistance.
- Rinse well with lots of water if the compound comes into contact with skin or eyes. If irritation persists, seek prompt medical attention.
- Keep the repair compound out of the reach of children.

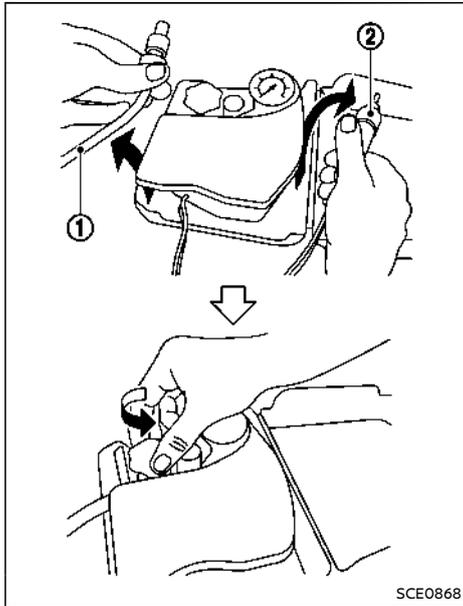


1. Take out the speed restriction sticker from the air compressor, then put it in a location where the driver can see it while driving.



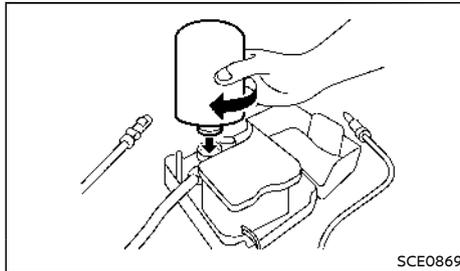
#### **CAUTION:**

Do not put the speed restriction sticker on the steering wheel pad, the speedometer or the warning light locations.



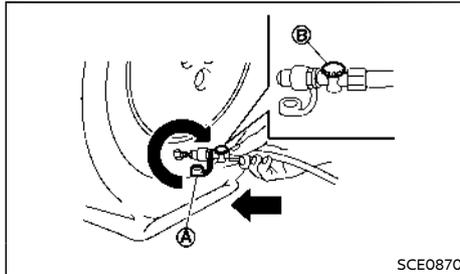
SCE0868

2. Take the hose ① and the power plug ② out of the air compressor. Remove the cap of the bottle holder from the air compressor.



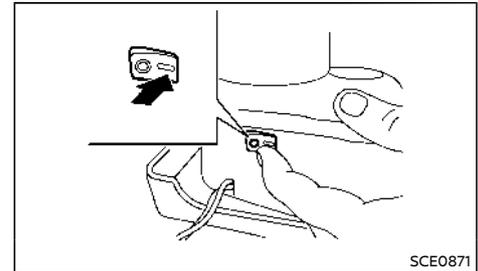
SCE0869

3. Remove the cap of the tire sealant bottle, and screw the bottle clockwise onto the bottle holder. (Leave the bottle seal intact. Screwing the bottle onto the bottle holder will pierce the seal of the bottle.)
4. Remove the cap of the tire valve on the flat tire.



SCE0870

5. Remove the protective cap ① of the hose and screw the hose securely onto the tire valve. Make sure that the pressure release valve ② is securely tightened. Make sure that the air compressor switch is in the OFF (○) position, and then insert its power plug into the power outlet in the vehicle.



SCE0871

6. Place the power switch in the "ON" position. Then turn the compressor switch to the ON (-) position and inflate the tire up to the pressure that is specified on the tire placard affixed to the driver's side center pillar if possible, or to the minimum of 180 kPa (26 psi). Turn the air compressor off briefly in order to check the tire pressure with the pressure gauge. If the tire is inflated to higher than the specified pressure, adjust the tire pressure by releasing air with the pressure release valve. The cold tire pressures are shown on the tire placard affixed to the driver's side center pillar.



**CAUTION:**

- An incomplete connection between the hose and tire valve causes air leakage or sealant scatter.
- Do not stand directly beside the damaged tire while it is being inflated because of the risk of the rupture. If there are any cracks or bumps, turn the compressor off immediately.
- There is a possibility that the pressure reaches 600 kPa (87 psi) while the tire is being inflated, but it is normal condition.

## JUMP STARTING

Usually the pressure will drop in about 30 seconds.

- **Do not operate the compressor for more than 10 minutes. If the tire pressure does not increase to 180 kPa (26 psi) within 10 minutes, the tire may be seriously damaged and the tire cannot be repaired with this tire puncture repair kit. Contact a NISSAN dealer.**
7. When the tire pressure is reaching the specified pressure or is at the minimum of 180 kPa (26 psi), turn the air compressor off. Remove the power plug from the power outlet and quickly remove the hose from the tire valve. Attach the protective cap and valve cap.



### CAUTION:

**Leave the tire sealant bottle on the bottle holder in order to prevent sealant from spilling out.**

8. Immediately drive the vehicle for 10 minutes or 3 km (2 miles) at a speed of 80 km/h (50 MPH) or less.
9. After driving, make sure that the air compressor switch is in the OFF (○) position, then screw the hose securely onto the tire valve. Check the tire pressure with the pressure gauge.

**If the tire pressure drops under 130 kPa (19 psi):**

**The tire cannot be repaired with this tire puncture repair kit. Contact a NISSAN dealer.**

**If the tire pressure is 130 kPa (19 psi) or more but less than the specified pressure:**

Turn the compressor switch to the ON (-) position and inflate the tire up to the specified pressure. Then repeat the steps from 8.

If the pressure drops again, **the tire cannot be repaired with this tire puncture repair kit. Contact a NISSAN dealer.**

**When the tire pressure is the specified pressure:**

The temporary repair is completed.

See a NISSAN dealer for tire repair/replacement as soon as possible.



### CAUTION:

**Do not reuse the tire sealant bottle or the hose.**

**For a new tire sealant bottle and hose, see a NISSAN dealer.**

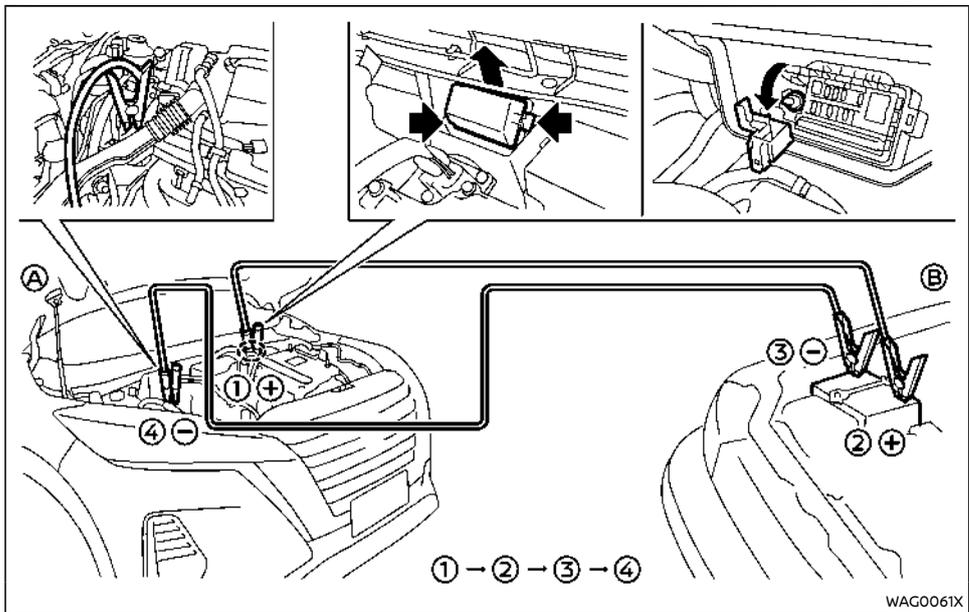
**After repairing tire**

See a NISSAN dealer for tire repair/replacement as soon as possible.



### WARNING:

- **Incorrect jump starting can lead to a 12-volt battery explosion. The 12-volt battery explosion may result in severe injury or death. It may also result in damage to the vehicle. Be sure to follow the instructions in this section.**
- **Explosive hydrogen gas is always present in the vicinity of the 12-volt battery. Keep all sparks and flames away from the 12-volt battery.**
- **Always wear suitable eye protection and remove rings, bracelets, and any other jewelry whenever working on or near a 12-volt battery.**
- **Never lean over the 12-volt battery while jump starting.**
- **Never allow 12-volt battery fluid to come into contact with eyes, skin, clothes or the vehicle's painted surfaces. 12-volt battery fluid is a corrosive sulfuric acid which can cause severe burns. If the fluid comes into contact with anything, immediately flush the contacted area with plenty of water.**
- **Keep the 12-volt battery out of the reach of children.**
- **The booster 12-volt battery must be rated at 12 volts. Use of an incorrectly rated 12-volt battery will damage your vehicle.**
- **Never attempt to jump start a frozen 12-volt battery. It could explode and cause serious injury.**



1. If the booster 12-volt battery is in another vehicle (B), position the two vehicles (A) and (B) to bring the fuse box of jumped vehicle (A) and the battery of booster vehicle (B) into close proximity to each other.
2. Apply the parking brake.
3. Push the P position switch to engage the "P" (Park) position.
4. Switch off all unnecessary electrical systems (headlights, air conditioner, etc.).

5. Place the power switch in the "OFF" position.
6. Remove the fuse box cover by pushing the tabs and then lift the cover.
7. Connect the jumper cables in the sequence as illustrated (①, ②, ③, ④).



**CAUTION:**

- Always connect positive ⊕ to positive ⊕ and negative ⊖ to body ground, NOT to the 12-volt battery's negative ⊖.

- Be sure that the jumper cables do not touch moving parts in the engine compartment.
  - Be sure that the jumper cable's clamps do not contact any other metal.
8. Start the engine of the booster vehicle (B) and let it run for a few minutes.
  9. Start the e-POWER system of the jumped vehicle (A) in the normal manner.



**CAUTION:**

Never keep the starter motor engaged for more than 10 seconds. If the e-POWER system does not start right away, place the power switch in the "OFF" position and wait at least 10 seconds before trying again.

10. After the e-POWER system is started, carefully disconnect the jumper cables in the opposite sequence from that illustrated (④, ③, ②, ①).
11. Replace the fuse box cover.

**NOTE:**

- Do not use this vehicle as a booster vehicle.
- If the e-POWER system cannot be started, place the power switch in the "OFF" position and wait for more than 10 seconds, and then restart the e-POWER system.
- If the 12-volt battery is discharged, the power switch cannot be placed in the "ON" or "OFF" position. Charge the 12-volt battery immediately.

## PUSH STARTING

Do not attempt to start the engine by pushing the vehicle.



### CAUTION:

- The e-POWER models cannot be push-started or tow-started. Attempting to do so may cause electric motor damage.
- Three-way catalyst equipped model should not be started by pushing. Attempting to do so may cause damage to the three-way catalyst.
- Never try to start the engine by towing. When the engine starts, the forward surge could cause the vehicle to collide with the towing vehicle.

## IF YOUR VEHICLE OVERHEATS



### WARNING:

- Never continue driving if your vehicle overheats. Doing so could cause a vehicle fire.
- Never open the hood if steam is coming out.
- Never remove the radiator cap or the engine coolant reservoir cap while the engine is hot. If the radiator cap or engine coolant reservoir cap is removed when the engine is hot, pressurized hot water will spurt out and possibly cause burning, scalding or serious injury.
- If steam or coolant is coming from the engine, stand clear of the vehicle to prevent getting scalded.
- The engine cooling fan can start at any time when the coolant temperature exceeds preset degrees.
- Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or to get caught in the cooling fan.

If your vehicle is overheating (indicated by the high temperature indicator), or if you feel a lack of traction motor power, detect unusual noise, etc., take the following steps:

1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard indicator flasher lights.
3. Apply the parking brake.
4. Push the P position switch to engage the "P" (Park) position.  
**DO NOT STOP THE e-POWER SYSTEM.**
5. Open all windows.

6. Turn off the cooler. Set the temperature control to maximum hot and fan control to maximum speed.
7. Get out from the vehicle.
8. Visually inspect and listen for steam or coolant escaping from the radiator before opening the hood. Wait until no steam or coolant can be seen before proceeding.
9. Open the engine hood.
10. Visually inspect if the cooling fan is running.
11. Visually inspect the radiator and radiator hoses for leakage.  
If the cooling fan is not running or the coolant is leaking, stop the e-POWER system.
12. After the engine cools down, check the coolant level in the reservoir with the engine running. **Do not open the radiator cap.**
13. Add coolant to the reservoir if necessary.  
Have your vehicle inspected/repaired at a NISSAN dealer.

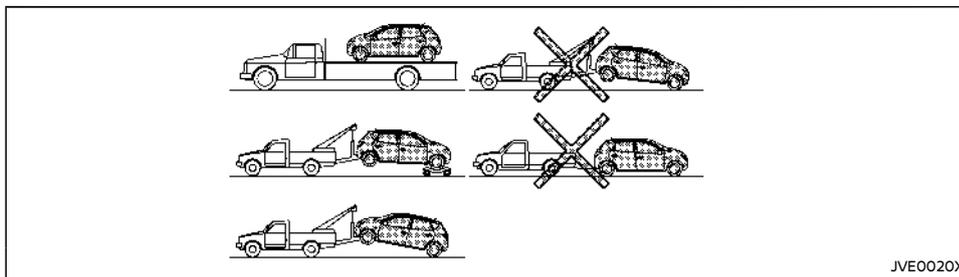
## TOWING YOUR VEHICLE

When towing your vehicle, local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends that you have professional road assistance personnel tow your vehicle. It is advisable to have the professional road assistant carefully read the following precautions.

### TOWING PRECAUTIONS

- Be sure that the transmission, steering system and powertrain are in working condition before towing. If any units are damaged, the vehicle must be towed using a dolly or flatbed tow truck.
- NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground.
- Always attach safety chains before towing.

### TOWING e-POWER MODEL



JVE0020X

#### Front wheels on the ground:



#### CAUTION:

**Never tow e-POWER model with the front wheels on the ground. Doing so will cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle, always use a dolly under the front wheels or use a flatbed tow truck.**

#### Rear wheels on the ground:

1. Place the power switch in the "OFF" position.
2. Secure the steering wheel in a straight-ahead position with rope or a similar device.
3. Move the shift lever to the "N" (Neutral) position.
4. Release the parking brake.
5. Attach safety chains for all towing.

#### All four wheels on the ground:



#### CAUTION:

**Never tow e-POWER model with all four wheels on the ground. Doing so will cause serious and expensive damage to the transmission.**

#### Freeing trapped vehicle



#### WARNING:

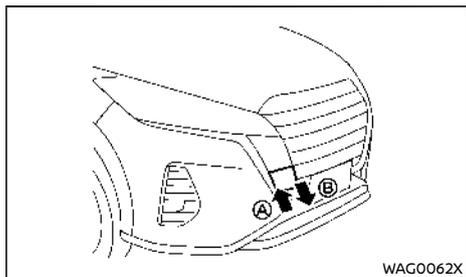
- **Never allow anyone to stand near the towing line during the pulling operation.**
- **Never spin the tires at high speed. This could cause them to explode and result in serious injury. Parts of the vehicle could also overheat and be damaged.**
- **Except for Indonesia: Do not pull the vehicle using the rear hook. The rear hook is not designed to pull the vehicle out in the event that the vehicle becomes trapped.**

In the event that your vehicle's tires become

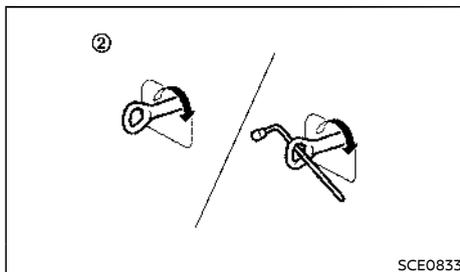
trapped in sand, snow, or mud, and the vehicle is unable to free itself without being pulled, use the recovery hooks.

- Use the recovery hooks only. Do not attach the pulling device to any other part of the vehicle body. Otherwise, the vehicle body may be damaged.
- Use the recovery hooks to free a vehicle only. Never tow a vehicle using only the recovery hooks.
- The recovery hooks are under tremendous stress when used to free a trapped vehicle. Always pull the pulling device straight out from the vehicle. Never pull on the recovery hooks at an angle.

#### Front:



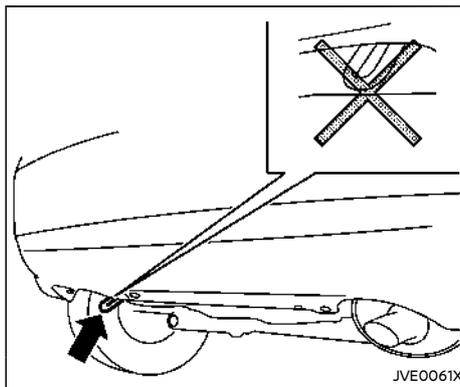
- ① Remove the hook cover from the bumper.
  - Push the left side of the edge of the cover **A**, and pull up the cover from the position **B**. If necessary, use a suitable tool wrapped with a cloth.



- ② Securely install the recovery hook as illustrated. (The hook is stored under the luggage floor board.)

Make sure that the recovery hook is properly secured in its storage area after use.

#### Rear (except for Indonesia):



#### Rear

Do not use the hook to tow the vehicle.

**MEMO**

# 7 Appearance and care

Cleaning exterior .....	7-2	Cleaning interior .....	7-3
Washing .....	7-2	Air fresheners .....	7-4
Removing spots .....	7-2	Floor mats .....	7-4
Waxing .....	7-2	Glass .....	7-4
Glass .....	7-3	Seat belts .....	7-4
Underbody .....	7-3	Corrosion protection .....	7-5
Wheels .....	7-3	Most common factors contributing to vehicle corrosion .....	7-5
Aluminum alloy wheel .....	7-3	Environmental factors influence rate of corrosion .....	7-5
Chrome parts .....	7-3	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.

Whenever possible, park your vehicle inside a garage or in a covered area to minimize the chances of damaging the paint surface of your vehicle.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover. **Be careful not to scratch the paint surface when putting on or removing the body cover.**

### WASHING

In the following instances, wash your vehicle as soon as possible to protect the paint surface:

- After a rainfall, which may cause the paint surface damage from acid rain.
  - After driving on coastal roads, which may cause rusting from the sea breeze.
  - When contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface.
  - When dust or mud builds up on the paint surface.
1. Wash the vehicle surface with a wet sponge and plenty of water.
  2. Clean the vehicle surface gently and thoroughly using a mild soap, a special vehicle soap or a general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.



#### CAUTION:

- **Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.**

- **Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the paint surface may become water-spotted.**
  - **Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.**
  - **Do not use a commercial or high-pressure sprayer on the surface or edge of the sashes. This could damage them and cause the tapes to peel away from the sashes.**
3. Rinse the vehicle thoroughly with plenty of clean water.
  4. Use a dampened chamois to dry the paint surface and avoid leaving water spots.

When washing the vehicle, take care of the following:

- Inside flanges, joints and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be cleaned regularly.
- Be sure that the drain holes in the lower edge of the doors are not clogged.
- Spray water to the underbody and in the wheel wells to loosen the dirt and/or wash away road salt.

### REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at a NISSAN dealer or any automotive accessory store.

### WAXING

Regular waxing protects the paint surface and helps maintain a new vehicle appearance.

After waxing, polishing is recommended to remove built-up residue and to avoid a weathered appearance.

A NISSAN dealer can assist you in choosing the appropriate waxing products.



#### CAUTION:

- **Wash your vehicle thoroughly and completely before applying wax to the paint surface.**
- **Always follow the manufacturer's instructions supplied with the wax.**
- **Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.**

Machine compounding or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

## GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

## UNDERBODY

In areas where road salt is used in the winter, it is necessary to clean the vehicle's underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension.

Before the winter and again in the spring, the underseal must be checked and, if necessary, re-treated.

## WHEELS

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. This may cause loss of pressure or damage the tire bead.
- NISSAN recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

## ALUMINUM ALLOY WHEEL

Wash the wheels regularly with a sponge dampened in a mild solution, especially during winter in areas where road salt is used.

The salt residue from road salt could discolor the wheels if it is not washed off regularly.



### CAUTION:

**Follow the directions below to avoid staining or discoloring the wheels:**

- **Do not use a cleaner that uses strong acid or alkali contents to clean the wheels.**
- **Do not apply wheel cleaners to the wheels when they are hot. The wheel temperature should be the same as ambient temperature.**
- **Rinse the wheel to completely remove the cleaner within 15 minutes after the cleaner is applied.**

## CHROME PARTS

Clean all chrome parts regularly with a non-abrasive chrome polish to maintain the finish.

## CLEANING INTERIOR

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a soft cloth dampened only with water to clean the meter and gauge lens covers.



### CAUTION:

- **Never use benzine, thinner or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather natural finish.**
- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens covers.**

## AIR FRESHENERS

Most air fresheners use a solvent that could affect the vehicle interior. If you use an air freshener, take the following precautions:

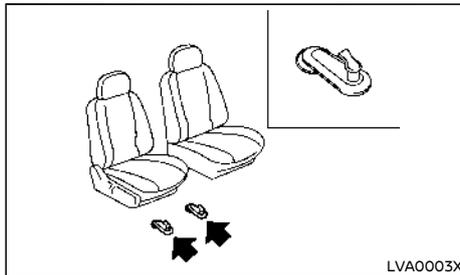
- Hanging-type air fresheners can cause permanent discoloration when they contact vehicle interior surfaces. Place the air freshener in a location that allows it to hang free and not contact an interior surface.
- Liquid-type air fresheners typically clip on the vents. These products can cause immediate damage and discoloration when spilled on interior surfaces.

Carefully read and follow the manufacturer's instructions before using air fresheners.

## FLOOR MATS

The use of genuine NISSAN floor mats (if equipped) can extend the life of your vehicle carpet and make it easier to clean the interior. Regardless of what mats are used, be sure they are fitted for your vehicle and are properly positioned in the foot well to prevent interference with pedal operation. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

## Floor mat positioning aid (driver's side)



This vehicle includes a front floor mat bracket to act as a floor mat positioning aid. NISSAN floor mats have been specially designed for your vehicle model. The driver's floor mat has a grommet hole 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 foot area.

Periodically check that the mats are properly positioned.

## GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.



### CAUTION:

**When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, such as rear window defogger elements.**

## SEAT BELTS



### WARNING:

- **Do not allow wet seat belts to roll up in the retractor.**
- **Never use bleach, dye or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.**

The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution.

Allow the belts to dry completely in the shade before using them. (See "Seat belts" (P.1-6).)

## 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 the paint surface and other protective coatings caused by gravel and stone chips or minor traffic accidents.

### ENVIRONMENTAL FACTORS INFLUENCE RATE OF CORROSION

#### Moisture

The accumulation of sand, dirt and water on the inside floor of the vehicle can accelerate corrosion. Wet floor carpet/floor mats will not dry completely inside the vehicle. They should be removed and completely dried to avoid floor panel corrosion.

#### Relative humidity

Corrosion will be accelerated in areas of high relative humidity.

#### Temperature

High temperatures accelerate the rate of corrosion to those parts which are not well ventilated.

Corrosion will also be accelerated in areas where the temperatures stay above freezing.

#### Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

### TO PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint surface and if any exists, repair it as soon as possible.
- Keep the drain holes in the lower edge of the doors open to avoid water accumulation.
- Check the vehicle underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.



#### CAUTION:

- **Never remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.**
- **Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.**

Chemicals used for road surface deicing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

**In the winter, the underbody must be cleaned periodically.**

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

**MEMO**

# 8 Maintenance and do-it-yourself

Maintenance requirements .....	8-2	Wiper blades .....	8-12
Scheduled maintenance .....	8-2	Windshield wiper blades .....	8-12
General maintenance .....	8-2	Rear window wiper blade .....	8-13
Where to go for service .....	8-2	Window washer fluid .....	8-14
General maintenance .....	8-2	12-volt battery .....	8-15
Explanation of general maintenance items .....	8-2	Vehicle 12-volt battery .....	8-15
Maintenance precautions .....	8-4	Intelligent Key battery .....	8-17
Engine compartment check locations .....	8-5	Battery replacement .....	8-17
HR12DE engine model .....	8-5	Variable voltage control system .....	8-18
Engine cooling system .....	8-6	Fuses .....	8-18
Checking engine coolant level .....	8-6	Engine compartment .....	8-18
Changing engine coolant .....	8-6	Passenger compartment .....	8-19
Inverter cooling system .....	8-7	Luggage compartment .....	8-20
Checking inverter coolant level .....	8-7	Lights .....	8-21
Changing inverter coolant .....	8-7	Headlights .....	8-21
Engine oil .....	8-8	Exterior lights .....	8-21
Checking engine oil level .....	8-8	Interior lights .....	8-21
Changing engine oil and oil filter .....	8-8	Light locations .....	8-22
Protect environment .....	8-9	Tires and wheels .....	8-24
Spark plugs .....	8-10	Tire inflation pressure .....	8-24
Platinum-tipped spark plugs .....	8-10	Types of tires .....	8-24
Brakes .....	8-10	Tire chains .....	8-24
Checking parking brake .....	8-10	Tire rotation .....	8-24
Checking foot brake pedal .....	8-10	Tire wear and damage .....	8-25
Brake booster .....	8-10	Tire age .....	8-25
Brake fluid .....	8-11	Changing tires and wheels .....	8-25
Gear fluid .....	8-12	Wheel balance .....	8-25
Air cleaner filter .....	8-12	Jacking up vehicle and replacing tires .....	8-25
		Emergency tire puncture repair kit .....	8-28

## MAINTENANCE REQUIREMENTS

Some day-to-day and regular maintenance is essential to maintain your vehicle's good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that the specified maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care.

### SCHEDULED MAINTENANCE

For your convenience, the required scheduled maintenance items are described and listed in a separate Warranty Information and Maintenance booklet. You must refer to that booklet to ensure that necessary maintenance is performed on your vehicle at regular intervals.

### GENERAL MAINTENANCE

General maintenance includes those items which should be checked during normal day-to-day operation of the vehicle. They are essential if your vehicle is to continue to operate properly. It is your responsibility to perform these procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by yourself, a qualified technician, or if you prefer, your NISSAN dealer.

### WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and tuned by an authorized NISSAN dealer.

## GENERAL MAINTENANCE

During normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smells, be sure to check for the cause or have a NISSAN dealer do it promptly. In addition, you should notify a NISSAN dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe "Maintenance precautions" (P.8-4).

### EXPLANATION OF GENERAL MAINTENANCE ITEMS

**Additional information on the following items with "" is found later in this section.**

#### Outside vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

#### **Doors and hood:**

Check that all doors and the hood operate smoothly as well as the back door, trunk lid and hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released. When driving in areas using road salt or other corrosive materials, check lubrication frequently.

#### **Lights\*:**

Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check the aim of the headlights.

**Tires\*:**

Check the pressure with a gauge often and always prior to long distance trips. Adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

**Tire rotation\*:**

In the case that Two-Wheel Drive (2WD) and front and rear tires are same size; tires should be rotated every 10,000 km (6,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed.

In the case that Four-Wheel Drive and All-Wheel Drive (4WD/AWD) and front and rear tires are same size; tires should be rotated every 5,000 km (3,000 miles). Tires marked with directional indicators can only be rotated between front and rear. Make sure that the directional indicators point in the direction of wheel rotation after the tire rotation is completed.

In the case that front tires are different size from rear tires; tires cannot be rotated.

However, the timing for tire rotation may vary according to your driving habits and the road surface conditions.

**Tire Pressure Monitoring System (TPMS) transmitter components (if so equipped):**

Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.

**Wheel alignment and balance:**

If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

**Windshield:**

Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Repair as necessary.

**Wiper blades\*:**

Check for cracks or wear if not functioning correctly. Replace as necessary.

**Inside vehicle**

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

**Accelerator pedal:**

Check the pedal for smooth operation and make sure that the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.

**Brake pedal\*:**

Check the pedal for smooth operation and make sure that it is the proper distance from the floor mat when depressed fully. Check the brake booster function. Be sure to keep the floor mats away from the pedal.

**Parking brake\*:**

Check the parking brake operation regularly. Check that the lever (if so equipped) or the pedal (if so equipped) has the proper travel. Also make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.

**Seat belts:**

Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

**Steering wheel:**

Check for changes in the steering condition, such as excessive play, hard steering or strange noises.

**Warning lights and chimes:**

Make sure that all warning lights and chimes are operating properly.

**Windshield defogger:**

Check that the air comes out of the defogger outlets properly and in good quantity when operating the heater or air conditioner.

**Windshield wiper and washer\*:**

Check that the wipers and washer operate properly and that the wipers do not streak.

**Under hood and vehicle**

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

### **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.

### **Engine coolant level\* :**

Check the coolant level when the engine is cold. Make sure that the coolant level is between the MAX and MIN lines on the reservoir.

### **Engine oil level\*:**

Check the level after parking the vehicle (on a level ground) and turning off the engine.

### **Fluid leaks:**

Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if fuel fumes are evident, check for cause and have it corrected immediately.

### **Inverter coolant level:**

Check the coolant level when the engine and inverter are cold. Make sure that the coolant level is between the MAX and MIN lines on the reservoir.

### **Window washer fluid\*:**

Check that there is adequate fluid in the reservoir.

## **MAINTENANCE PRECAUTIONS**

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.



### **WARNING:**

- **Never touch, disassemble, remove or replace the high voltage parts, harnesses and their connectors. High voltage harnesses are orange. Touching, disassembling, removing or replacing those parts and harnesses can cause severe burns or electric shock that may result in serious injury or death.**
- **Never try to remove the service plug located under the front passenger's seat. The service plug is used only when the vehicle is serviced by trained technicians wearing personal protection equipment and is part of the high voltage system. Touching the service plug can cause severe burns or electric shock that may result in serious injury or death.**
- **The e-POWER system uses high voltage up to approximately 350 volts. The system can be hot while and after starting. Be careful of both the high voltage and the high temperature. Obey the caution labels attached to the vehicle.**
- **The engine can start at any time without warning when the e-POWER system is in the READY to drive mode. If you must work with the e-POWER system in the READY to drive mode, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Push the P position switch to engage the "P" (Park) position.**
- **Be sure the power switch is in the "OFF" position when performing any parts replacement or repairs.**
- **Do not work under the hood while the engine is hot. Always turn off the e-POWER system and wait until it cools down.**
- **If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.**
- **It is advisable to secure or remove any loose clothing and any jewelry, such as rings, watches, etc. before working on your vehicle.**
- **If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.**
- **Never get under the vehicle while it is supported by a jack.**
- **Keep smoking materials, flame and sparks away from fuel and the battery.**
- **Never connect or disconnect either the battery or any transistorized component connector while the power switch is in the "ON" position.**

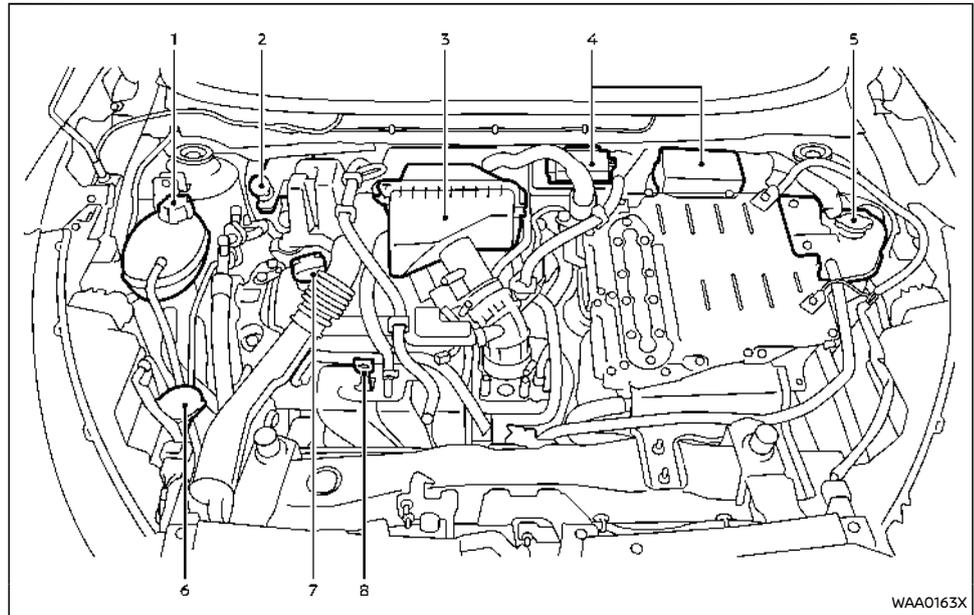
## ENGINE COMPARTMENT CHECK LOCATIONS

- For the gasoline engine models with the Multiport Fuel Injection (MFI) system, the fuel filter and fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is turned off.
- Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the power switch is in the "OFF" position and the e-POWER system is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.
- Always wear eye protection whenever you work on your vehicle.
- Never leave the e-POWER system or the transmission related component harness connector disconnected while the power switch is in the "ON" position.
- Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant, and/or other vehicle fluids can hurt the environment. Always conform to local regulations for disposal of vehicle fluids.

This "8. Maintenance and do-it-yourself" section provides instructions regarding only those items which are relatively easy for an owner to perform.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in doubt about any servicing, have it done by a NISSAN dealer.**

### HR12DE ENGINE MODEL



1. Engine coolant reservoir
2. Brake fluid reservoir
3. Air cleaner
4. Fuse/fusible link box
5. Inverter coolant reservoir
6. Window washer fluid reservoir
7. Engine oil filler cap
8. Engine oil dipstick

## ENGINE COOLING SYSTEM

### WARNING:

- Never remove the radiator or coolant reservoir cap when the engine is hot. Serious burns could be caused by high-pressure fluid escaping from the radiator. Wait until the engine and radiator cool down.
- Engine coolant is poisonous and should be stored carefully in marked containers out of the reach of children.

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

### CAUTION:

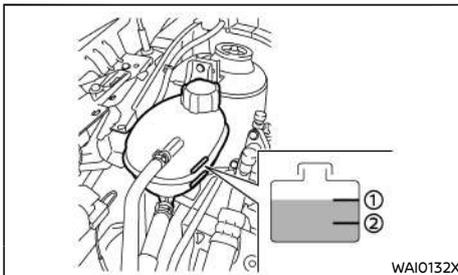
- Never use any cooling system additives such as radiator sealer. Additives may clog the cooling system and cause damage to the engine, transmission and/or cooling system.
- When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in its quality with the proper mixture ratio. Examples of the mixture ratio of coolant and water are shown in the following table:

Outside temperature down to		Composition	
°C	°F	Engine coolant (concentrated)	Deminer-alized or distilled water
-15	5	30%	70%
-35	-30	50%	50%

The use of other types of coolant solutions may damage the engine cooling system.

The radiator is equipped with a pressure cap. To prevent engine damage, use only a Genuine NISSAN radiator cap or its equivalent when replacement is required.

### CHECKING ENGINE COOLANT LEVEL



Check the coolant level in the reservoir when the engine is running and after it reaches normal operating temperature. If the coolant level is below MIN level ②, add coolant up to the MAX level ①. Tighten the cap securely after adding engine coolant.

**If the cooling system frequently requires coolant, have it checked by a NISSAN dealer.**

### CHANGING ENGINE COOLANT

Contact a NISSAN dealer if replacement is required.

Major engine cooling system repair should be performed by a NISSAN dealer. The service procedures can be found in the appropriate NISSAN Service Manual.

Improper servicing can result in engine overheating.

### WARNING:

- To avoid being scalded, never change the coolant when the engine is hot.
- Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.
- Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- Keep coolant out of reach of children and pets.

Engine coolant must be disposed of properly. Check your local regulations.

## INVERTER COOLING SYSTEM

### WARNING:

- Never remove the inverter coolant reservoir cap when the engine and inverter are hot. Serious burns could be caused by high-pressure fluid escaping from the reservoir. Wait until the engine and inverter cool down.
- Inverter coolant is poisonous and should be stored carefully in marked containers out of the reach of children.

The inverter 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 inverter cooling system additives are not necessary.

### CAUTION:

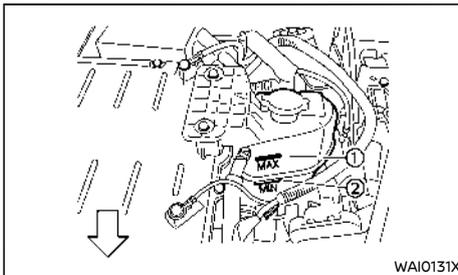
- Never use any additives in the coolant such as radiator sealer in the cooling system. This may cause damage to electrical equipment such as the motor and inverter, and also to engine and transmission.
- When adding or replacing coolant, be sure to use only Genuine NISSAN Engine Coolant or equivalent in its quality with the proper mixture ratio. Examples of the mixture ratio of coolant and water are shown in the following table:

Outside temperature down to		Inverter coolant (concentrated)	Demineralized or distilled water
°C	°F		
-15	5	30%	70%
-35	-30	50%	50%

The use of other types of coolant solutions may damage the inverter cooling system.

The inverter reservoir is equipped with a pressure cap. To prevent engine and inverter damage, use only a Genuine NISSAN inverter reservoir cap or its equivalent when replacement is required.

## CHECKING INVERTER COOLANT LEVEL



Check the coolant level in the reservoir when the engine and inverter are cold. If the coolant level is below the MIN level ②, add coolant to the MAX level ①.

If the inverter cooling system frequently requires coolant, have it checked by a NISSAN dealer.

## CHANGING INVERTER COOLANT

Contact a NISSAN dealer if replacement is required.

A NISSAN dealer can change the inverter coolant. The service procedures can be found in the NISSAN Service Manual.

Improper servicing can result in inverter overheating.

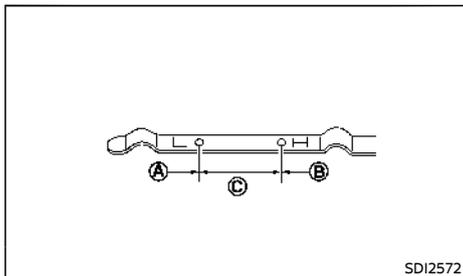
### WARNING:

- To avoid being scalded, never change the coolant when the inverter is hot.
- Never remove the cap when the inverter is hot. Serious burns could be caused by high pressure fluid escaping from the inverter coolant reservoir.
- Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- Keep coolant out of reach of children and pets.

Inverter coolant must be disposed of properly. Check your local regulations.

## ENGINE OIL

### CHECKING ENGINE OIL LEVEL



1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and warm it up until the engine temperature reaches the normal operating temperature (approximately 5 minutes).
3. Stop the engine.
4. Wait at least 15 minutes for the engine oil to drain back to the oil pan.
5. Remove the dipstick and wipe it clean.
6. Reinsert the dipstick all the way.
7. Remove the dipstick and check the oil level. It should be within the range C.
8. If the oil level is below A, remove the oil filler cap and pour the recommended oil into the opening. Do not overfill B.
9. Recheck the oil level with the dipstick.

**It is normal to add some oil between oil maintenance intervals, depending on the severity of operating conditions.**



#### CAUTION:

**The oil level should be checked regularly. Operating your vehicle with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.**

### CHANGING ENGINE OIL AND OIL FILTER



#### WARNING:

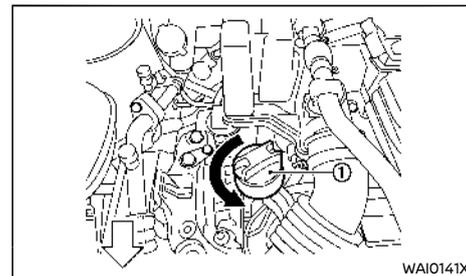
- **Used oil must be disposed of properly. Never pour or dump oil into the ground, canals, rivers, etc. It should be disposed of at proper waste facilities. NISSAN recommends having your oil changed by a NISSAN dealer.**
- **Be careful not to burn yourself, as the engine oil may be hot.**
- **Prolonged and repeated contact with used engine oil may cause skin cancer.**
- **Avoid direct skin contact with used oil. If contacted, wash thoroughly with soap or hand cleaner and plenty of water as soon as possible.**
- **Store used engine oil in marked containers out of the reach of children.**

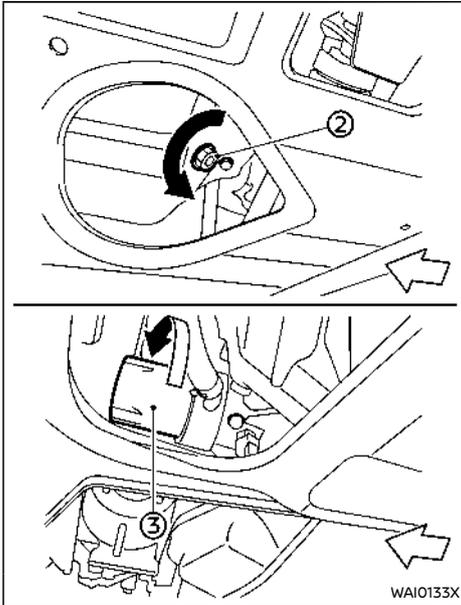
#### Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Start the engine and warm it up until the engine temperature reaches the normal operating temperature (approximately 5 minutes).
3. Stop the engine.
4. Wait at least 10 minutes for the engine oil to drain back to the oil pan.

5. Raise and support the vehicle using a suitable floor jack and safety jack stands.
  - Place the safety jack stands under the vehicle jack-up points.
  - A suitable adapter should be attached to the jack stand saddle.

### Engine oil and filter





- ① Oil filler cap
- ② Oil drain plug
- ③ Oil filter

1. Place a large drain pan under the drain plug.
2. Remove the drain plug with a wrench.
3. Remove the oil filter cap and completely drain the oil.

If the oil filter is to be changed, remove and replace it at this time.

**⚠ CAUTION:**

**Waste oil must be disposed of properly. Check your local regulations.**

4. Loosen the oil filter with an oil filter wrench.
5. Remove the oil filter by turning it by hand.
6. Wipe the engine oil filter mounting surface with a clean cloth.  
Be sure to remove any old gasket remaining on the mounting surface.
7. Apply new engine oil to the gasket of the new oil filter.
8. Screw in the oil filter until a slight resistance is felt and then tighten an additional 2/3 of a turn to secure the filter.

**Oil filter tightening torque:**  
**15 to 20 N·m**  
**(1.5 to 2.0 kg·m, 11 to 15 ft·lb)**

9. Clean and reinstall the drain plug and new washer. Securely tighten the drain plug with a wrench. Do not use excessive force.

**Drain plug tightening torque:**  
**29 to 39 N·m**  
**(3.0 to 4.0 kg·m, 22 to 29 ft·lb)**

10. Refill the recommended engine oil and quantity. (See "Recommended fluids/Lubricants and capacities" (P.9-2).)
11. Securely install the oil filler cap.
12. Start the engine.
13. Check the drain plug for any sign of leakage.
14. Dispose of the used oil in the proper manner. Check your local regulations.

15. Check the engine oil level according to the proper procedure. (See "Checking engine oil level" (P.8-8).)

**After operation**

1. Lower the vehicle carefully to the ground.
2. Dispose of waste oil and filter properly.

**PROTECT ENVIRONMENT**

It is illegal to pollute drains, watercourses and soil. Use authorized waste collection facilities, including civil amenity sites and garages providing facilities for disposal of used oil and used oil filters. If in doubt, contact your local authority for advice on disposal.

**The regulations concerning the pollution of the environment will vary from country to country.**

## SPARK PLUGS



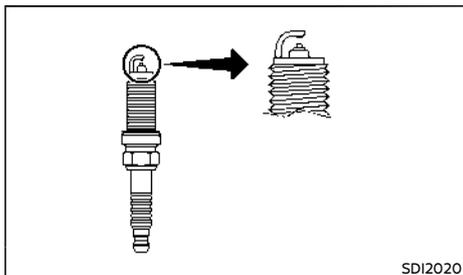
### WARNING:

**Be sure the engine and power switch are off and that the parking brake is applied.**

Replace the spark plugs according to the maintenance log shown in a separate maintenance booklet.

If replacement is required, contact a NISSAN dealer.

### PLATINUM-TIPPED SPARK PLUGS



It is not necessary to replace the platinum-tipped spark plugs as frequently as the conventional type of spark plugs. These spark plugs are designed to last much longer than the conventional type of spark plug.



### CAUTION:

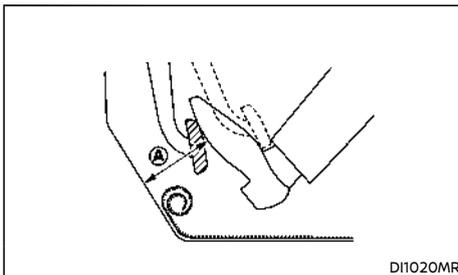
- **Do not reuse the platinum-tipped spark plugs by cleaning or re-gapping.**
- **Always replace with the recommended platinum-tipped spark plugs.**

## BRAKES

### CHECKING PARKING BRAKE

Periodically check the holding ability of the parking brake by parking on a steep hill and restraining the vehicle by using only the parking brake. If it does not hold satisfactorily, see a NISSAN dealer.

### CHECKING FOOT BRAKE PEDAL



### WARNING:

**See a NISSAN dealer for a brake system check if the foot brake pedal height does not return to normal.**

With the e-POWER system running, check the distance (A) between the upper surface of the pedal and the metal floor. If it is out the range listed, see a NISSAN dealer.

**(A): Depressing force**  
**490 N (50 kg, 110 lb)**  
**80 mm (3.15 in) or more**

### Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes. The disc-type brakes self-adjust every time the foot brake pedal is applied.

### Brake pad wear indicator

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

Under some driving or climate conditions, occasional brake squeaks, squeals or other noises may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

Proper brake inspection intervals should be followed. For additional information, see a separate maintenance booklet.

### BRAKE BOOSTER

Check the brake booster function as follows:

1. With the e-POWER system off, depress and release the foot brake pedal several times. When the foot brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the foot brake pedal, start the e-POWER system. The pedal height should drop a little.

## BRAKE FLUID

3. With the foot brake pedal depressed, stop the e-POWER system. Keep the pedal depressed for about 30 seconds. The pedal height should not change.
4. Run the e-POWER system for 1 minute without depressing the foot brake pedal, then turn it off. Depress the foot brake pedal several times. The pedal travel distance will decrease gradually with each depression as the vacuum is released from the booster.

If the brakes do not operate properly, have the brakes checked by a NISSAN dealer.



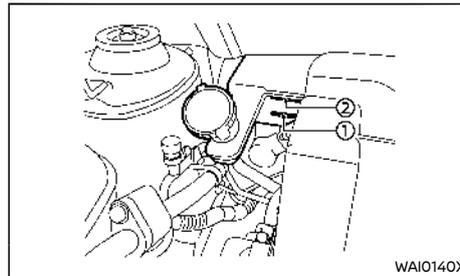
### WARNING:

- Use only new fluid from a sealed container. Old, inferior, or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.
- Clean the filler cap before removing.
- Brake fluid is poisonous and should be stored carefully in marked containers out of the reach of children.



### CAUTION:

Do not spill the fluid on painted surfaces. This will damage the paint. If fluid is spilled, wash it off with plenty of water immediately.



Check the fluid level in the reservoir. If the brake fluid is below the MIN line ①, the brake warning light will illuminate. Add brake fluid up to the MAX line ②. (See "Recommended fluids/lubricants and capacities" (P.9-2) for recommended types of brake fluid.)

If the brake fluid must be added frequently, the brake system should be thoroughly checked by

a NISSAN dealer.

## GEAR FLUID

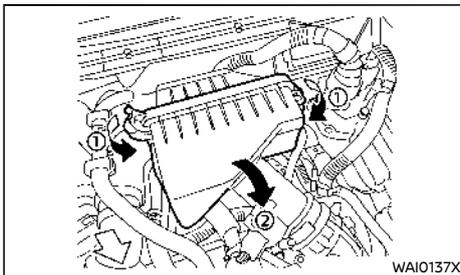
When checking or replacement is required, we recommend a NISSAN dealer for servicing.



### CAUTION:

- Use only Genuine NISSAN Matic S ATF. Do not mix with other fluids.
- Using gear fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and gear box durability, and may damage the gear box, which is not covered by the warranty.

## AIR CLEANER FILTER



### WARNING:

**Operating the engine with the air cleaner filter off can cause you or others to be burned. The air cleaner filter not only cleans the intake air, it also stops flame if the engine backfires. If the air cleaner filter is not installed and the engine backfires, you could be burned. Never drive with the air cleaner filter off. Be cautious working on the engine when the air cleaner filter is off.**

To remove the filter, unlatch the retaining clips ①, and pull the cover ②.

The viscous paper type filter element should not be cleaned and reused. The dry paper type filter element may be cleaned and reused. Replace the air filter according to the maintenance log shown in a separate maintenance booklet.

When replacing the air filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

## WIPER BLADES

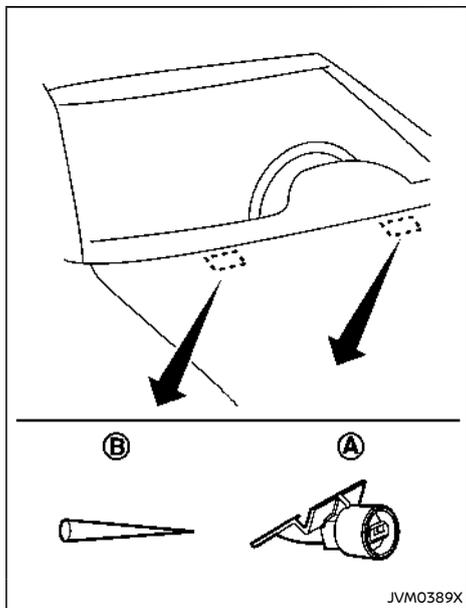
### WINDSHIELD WIPER BLADES

#### Cleaning

If the windshield does not become clear after using the windshield washer or if the wiper blades chatter when operating the windshield wipers, wax or other materials may be on the windshield and/or wiper blades.

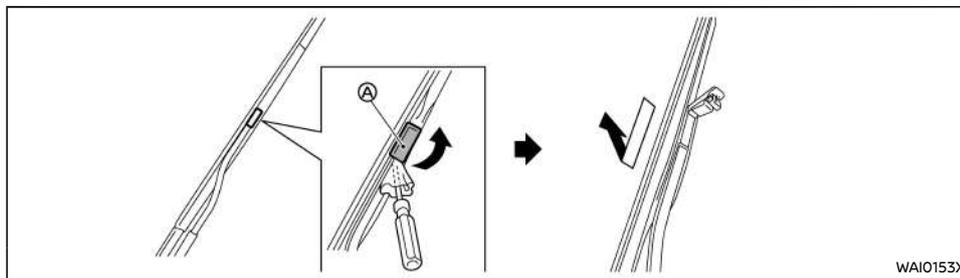
Clean the outside of the windshield surface with a washer solution or mild detergent. Your windshield is clean if beads do not form when rinsing with water.

Clean the blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Rinse the blade with water. If your windshield is still not clear after cleaning the blades and using the wipers, replace the blades.



Be careful not to clog the washer nozzle (A). This may cause improper windshield washer operation. If the nozzle is clogged, remove any objects with a needle or small pin (B). Be careful not to damage the nozzle.

## Replacing



1. Lift the wiper arm away from the windshield.
2. Pull up the release tab (A) using a suitable tool, and then move the wiper blade as shown to remove it from the wiper arm.
3. Remove the wiper blade.
4. Insert the new wiper blade onto the wiper arm until it clicks into place.

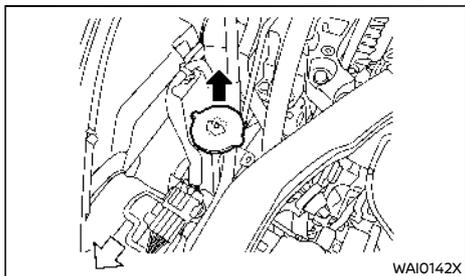
### REAR WINDOW WIPER BLADE

Contact a NISSAN dealer if checking or replacement is required.

### CAUTION:

- After wiper blade replacement, return the wiper arm to its original position. Otherwise the wiper arm or the engine hood may be scratched and may cause damage.
- Worn windshield wiper blades can damage the windshield and impair driver vision.

## WINDOW WASHER FLUID



### **WARNING:**

**Anti-freeze is poisonous and should be stored carefully in marked containers out of the reach of children.**

Check the fluid level in the window washer reservoir. If the fluid level is low, add window washer fluid. Fill the window washer fluid reservoir periodically.

Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer anti-freeze. Follow the manufacturer's instructions for the mixture ratio.

## 12-VOLT BATTERY

### VEHICLE 12-VOLT BATTERY

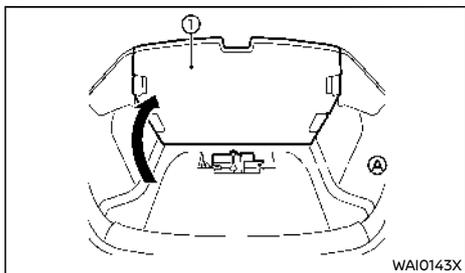
Caution symbols for battery			⚠ WARNING
①		No smoking, No exposed flames, No sparks	Never smoke around battery. Never expose battery to open flames or electrical sparks.
②		Shield eyes	Handle the battery cautiously. Always wear eye protection glasses to protect against explosion or battery acid.
③		Keep away from children	Never allow children to handle battery. Keep the battery out of the reach of children.
④		Battery acid	Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After handling the battery or battery cap, immediately wash your hands thoroughly. If the battery fluid gets into your eyes, or onto your skin or clothing, flush with water immediately for at least 15 minutes and seek medical attention. Battery fluid is acid. If the battery fluid gets into your eyes or onto your skin, it could cause loss of your eyesight or burns.
⑤		Note operating instructions	Before handling the battery, read this instruction carefully to ensure correct and safe handling.
⑥		Explosive gas	Hydrogen gas, generated by battery fluid, is explosive.

SD11573



#### WARNING:

Do not operate the vehicle if the fluid in the 12-volt battery is low. Low 12-volt battery fluid can cause a higher load on the 12-volt battery which can generate heat, reduce 12-volt battery life, and in some cases lead to an explosion.



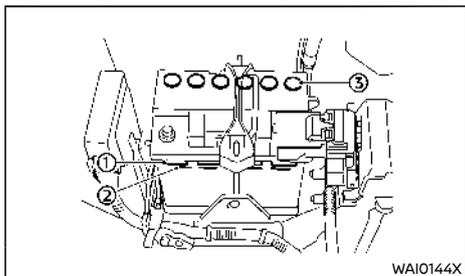
The 12-volt battery (A) is located on the luggage room. To access the 12-volt battery, raise the luggage floor board (1).



**CAUTION:**

**Do not touch floor metal directly. Doing so could result in any burns.**

**Checking 12-volt battery fluid level**

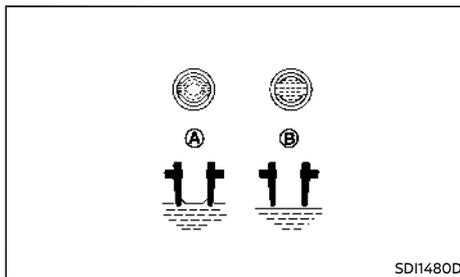


Check the fluid level in each cell. The 12-volt battery fluid level should be between the UPPER LEVEL (1) and LOWER LEVEL (2) lines.

If it is necessary to add fluid, add only demineralized/distilled water to bring the level to the

indicator in each filler opening. Do not overfill.

1. Remove the cell plugs (3) (if equipped) using a suitable tool.
2. Add demineralized/distilled water up to the UPPER LEVEL (1) line.



If the side of the battery is not clear, check the distilled water level by looking directly above the cell; the condition (A) indicates OK and the condition (B) needs more to be added.

3. Replace and tighten the cell plugs.
  - Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.
  - Keep the 12-volt battery surface clean and dry. Clean the 12-volt battery with a solution of baking soda and water.
  - Make certain the terminal connections are clean and securely tightened.
  - If the vehicle is not to be used for more than 30 days, disconnect the negative (-) 12-volt battery terminal cable to prevent 12-volt battery discharge.

**Jump starting**

If jump starting is necessary, see "Jump starting" (P.6-5). If the e-POWER system does not start by jump starting or the battery does not charge, the battery may have to be replaced. Contact a NISSAN dealer for replacing the battery.

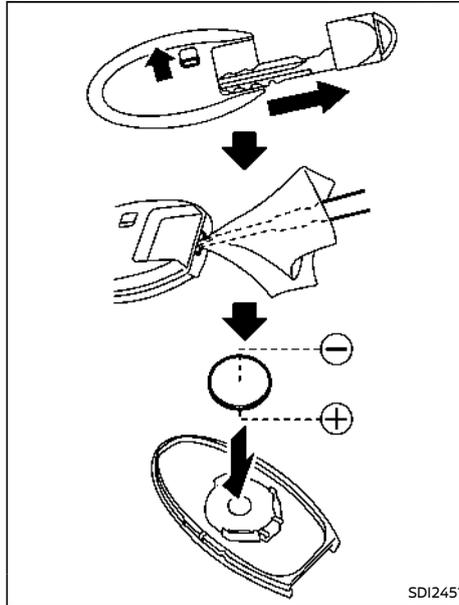
## INTELLIGENT KEY BATTERY

### BATTERY REPLACEMENT



#### CAUTION:

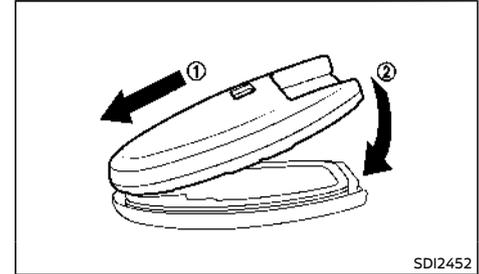
- Be careful not to allow children to swallow the battery and removed parts.
- An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.
- When changing batteries, do not let dust or oil get on the components.
- There is danger of explosion if lithium battery is incorrectly replaced. Replace only with the same or equivalent type.



To replace the battery:

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.
2. Insert a small 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: CR2032 or equivalent

- Do not touch the internal circuit and electric terminals as doing so could cause a malfunction.
- Make sure that the ⊕ side faces the bottom of the case.



4. Align the tips of the upper and lower parts ①, and then push them together until it is securely closed ②.
5. Operate the buttons to check its operation. See a NISSAN dealer if you need assistance for replacement.

## VARIABLE VOLTAGE CONTROL SYSTEM

The variable voltage control system measures the amount of electrical discharge from the 12-volt battery and controls voltage generated by the DC/DC converter system.

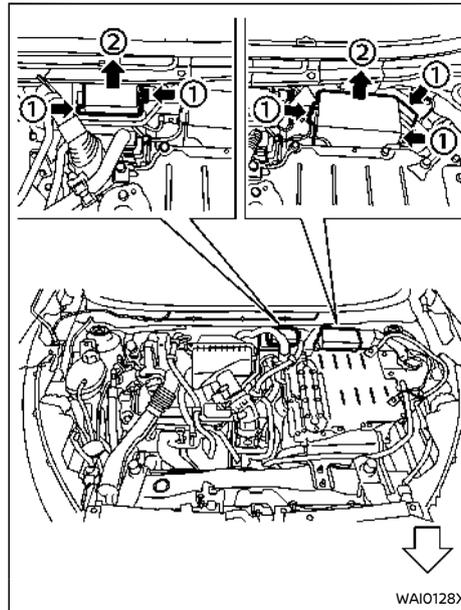


### CAUTION:

- Do not ground accessories directly to the 12-volt battery terminal. Doing so will bypass the variable voltage control system and the vehicle 12-volt battery may not charge completely.
- Use electrical accessories with the e-POWER system running to avoid discharging the vehicle 12-volt battery.

## FUSES

### ENGINE COMPARTMENT

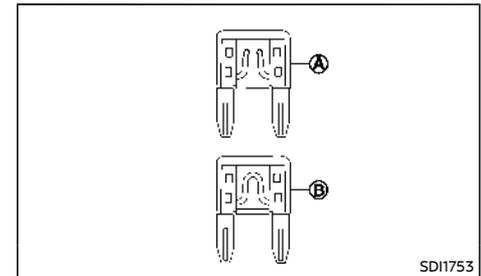


### CAUTION:

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the power switch is in the "OFF" position.
2. Be sure the headlight switch is in the "OFF" position.
3. Open the engine hood.
4. Remove the fuse/fusible link holder cover by pushing the tabs ① and then lift the cover ②.
5. Locate the fuse that needs to be replaced.



### Example

6. Remove the fuse using the fuse puller located in the passenger compartment.
7. If the fuse is open (A), replace it with a new fuse (B).

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by a NISSAN dealer.

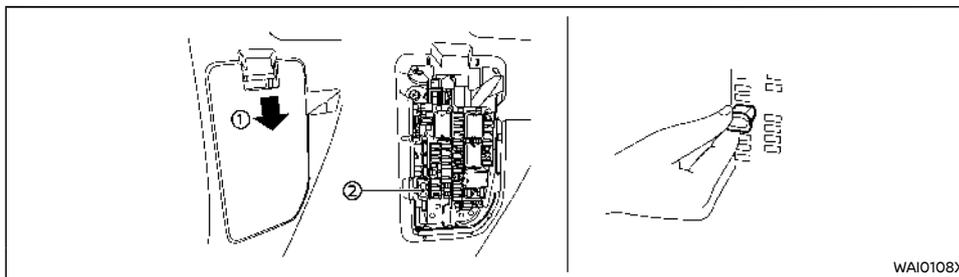
### Fusible links

If any electrical equipment does not operate and the fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine NISSAN parts.

**NOTE:**

Your vehicle may not be equipped with all fusible link listed on the fuse label.

PASSENGER COMPARTMENT

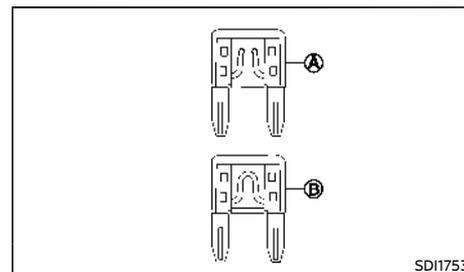


**CAUTION:**

**Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.**

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the power switch is in the "OFF" position.
2. Be sure the headlight switch is in the "OFF" position.
3. Remove the fuse box cover ①, if necessary, with a suitable tool.
4. Locate the fuse that needs to be replaced.
5. Remove the fuse using the fuse puller ②.

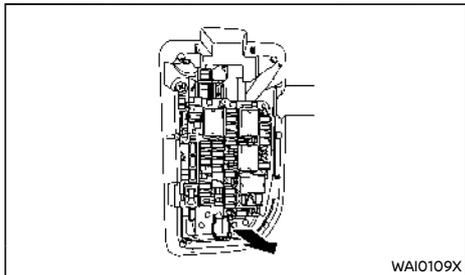


**Example**

6. If the fuse is open (A), replace it with a new fuse (B).

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by a NISSAN dealer.

## Extended storage fuse switch



To reduce battery drain, the extended storage fuse switch comes from the factory switched off. Prior to delivery of your vehicle, the switch is pushed in (switched on) and should always remain on.

If any electrical equipment does not operate, remove the extended storage fuse switch and push it in again.

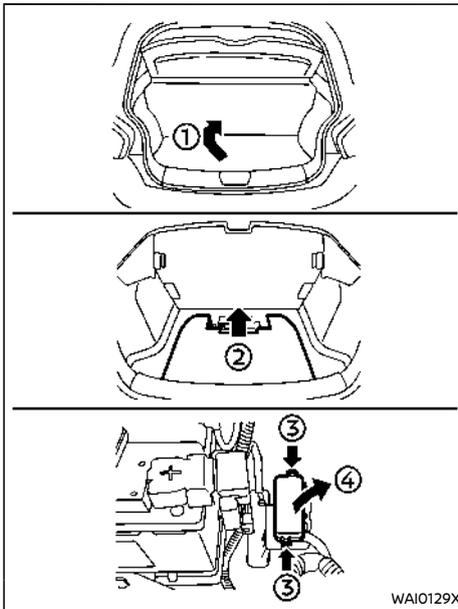
### NOTE:

**If the extended storage fuse switch malfunctions, see a NISSAN dealer.**

### How to remove the extended storage fuse switch:

1. To remove the extended storage fuse switch, be sure the power switch is in the "OFF" position.
2. Be sure the headlight switch is in the "OFF" position.
3. Remove the fuse box cover.
4. Pinch the storage fuse switch and pull it in the direction illustrated.

## LUGGAGE COMPARTMENT

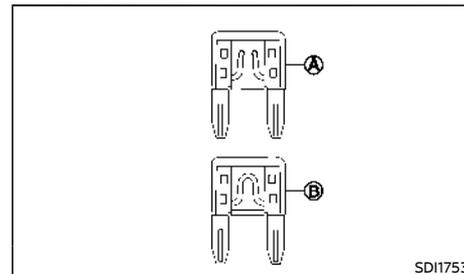


### CAUTION:

- **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.**
- **Do not touch floor metal directly. Doing so could result in any burns.**

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the power switch is in the "OFF" position.
2. Be sure the headlight switch is in the "OFF" position.
3. Raise the luggage floor board ①.
4. Remove the board containing the tool ②.
5. Remove the fuse box cover by pushing the tabs ③ and then lift the cover ④.
6. Locate the fuse that needs to be replaced.
7. Remove the fuse using the fuse puller located in the passenger compartment.



### Example

8. If the fuse is open (A), replace it with a new fuse (B).

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by a NISSAN dealer.

## LIGHTS

### Fusible links

If any electrical equipment does not operate and the fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine NISSAN parts.

#### NOTE:

**Your vehicle may not be equipped with all fusible link listed on the fuse label.**

### HEADLIGHTS

Fog may temporarily form inside the lens of the exterior lights in the rain or in a car wash. A temperature difference between the inside and the outside of the lens causes the fog. This is not a malfunction. If large drops of water collect inside the lens, contact a NISSAN dealer.

### LED headlight

If replacement is required, contact a NISSAN dealer.

### EXTERIOR LIGHTS

Item	Wattage (W)
Front turn signal light*	LED
Front clearance light*	LED
Front fog light (if equipped)*	LED
Daytime running light (if equipped)*	LED
Side turn signal light*	LED
Rear combination lights	
Turn signal light*	LED
Stop light*	LED
Tail light*	LED
Reverse light*	LED
High-mounted stop light*	LED
License plate light	5

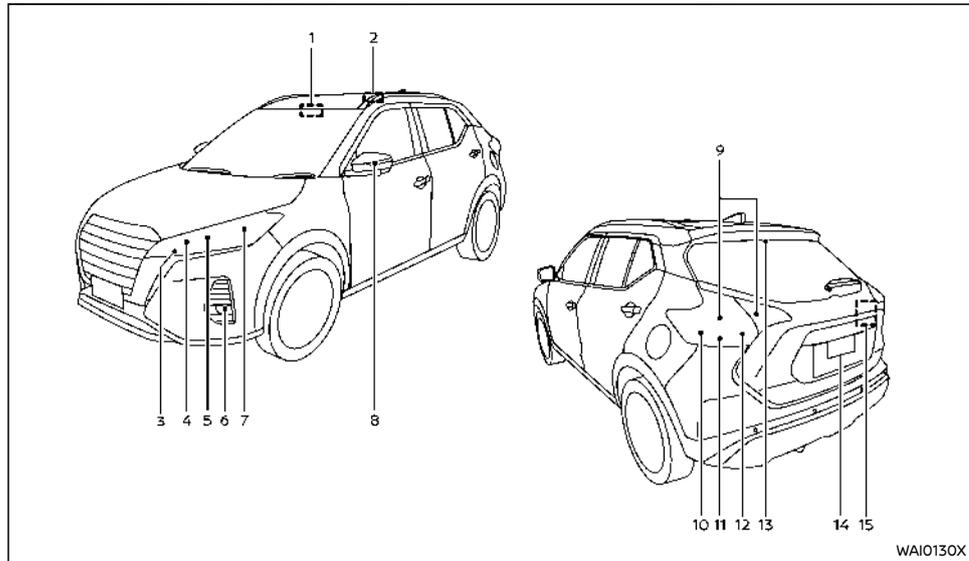
\*: See a NISSAN dealer for replacement.

### INTERIOR LIGHTS

Item	Wattage (W)
Map light	10
Room light	5
Luggage room light	5
Vanity mirror light (if equipped)*	1.8

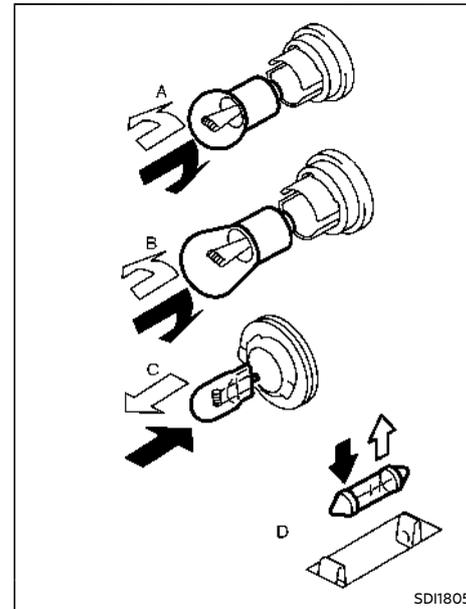
\*: See a NISSAN dealer for replacement.

## LIGHT LOCATIONS



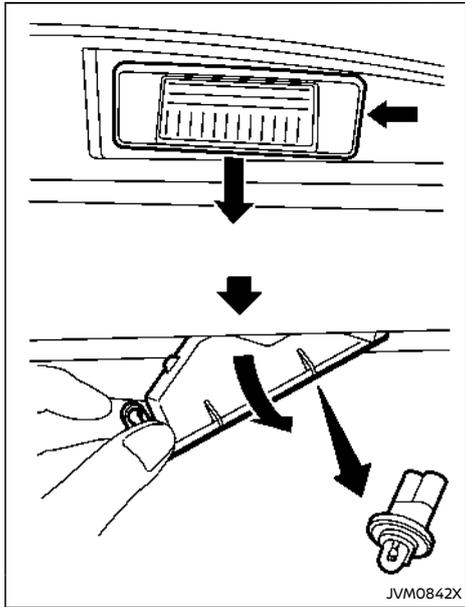
1. Map light
2. Room light
3. Front turn signal light
4. Clearance light/Daytime running light (if equipped)
5. Headlight (high-beam)
6. Front fog light (if equipped)
7. Headlight (low-beam)
8. Side turn signal light
9. Tail light
10. Stop light
11. Rear turn signal light
12. Reverse light
13. High-mounted stop light
14. License plate light
15. Luggage room light

## Replacement procedures

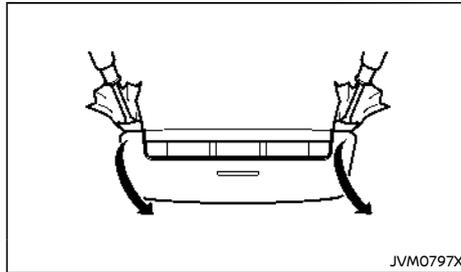


-  REMOVE  
 INSTALL

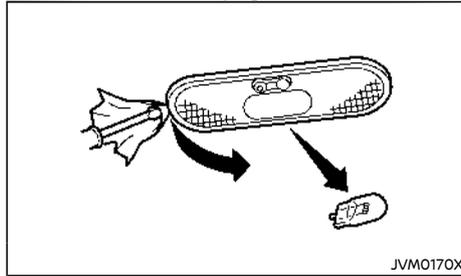
All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens and/or cover.



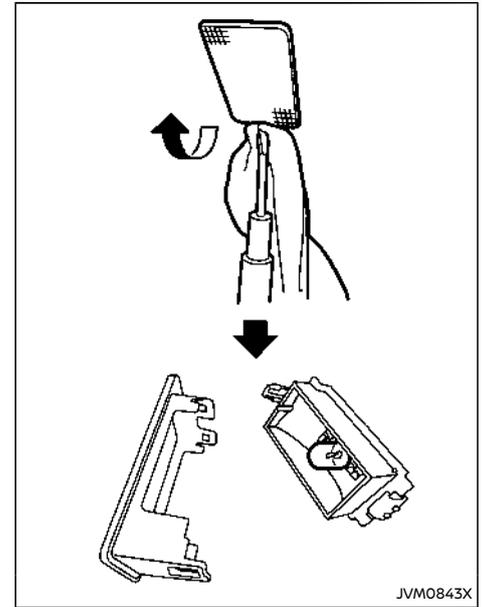
License plate light



Map light



Room light



Luggage room light

## TIRES AND WHEELS

If you have a flat tire, see "Flat tire" (P.6-2).

### TIRE INFLATION PRESSURE

Periodically check the pressure of the tires. An incorrect tire pressure may adversely affect tire life and vehicle handling. The tire pressure should be checked when tires are COLD. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1.6 km (1 mile). COLD tire pressures are shown on the tire placard. (See "Tire placard" (P.9-6) for the location of the tire placard.)

Insufficient pressure can lead to an overheating of the tire and subsequent internal damage. At high speeds, this could result in tread separation and even bursting of the tire.

### TYPES OF TIRES



#### CAUTION:

**When changing or replacing tires, be sure all four tires are of the same type (that is, summer, all season or snow) and construction. A NISSAN dealer may be able to help you with information about tire type, size, speed rating and availability.**

Replacement tires may have a lower speed rating than the factory equipped tires, and they may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

### All season tires

NISSAN specifies all season tires on some models to provide good performance all year, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than all season tires and may be more appropriate in some areas.

### Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating M&S on the tire sidewall.

If you plan to operate your vehicle in snowy or icy conditions, NISSAN recommends the use of snow or all season tires on all four wheels.

### Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire. If you install snow tires, they must be the same size, brand, construction and tread pattern on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some states and provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

### TIRE CHAINS

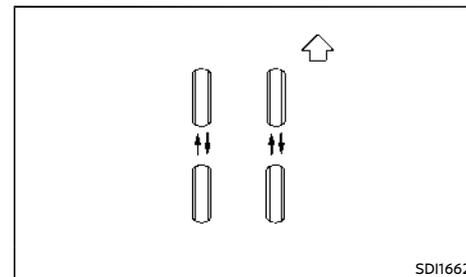
Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure that they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer's instructions.

Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chains must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

**Tire chains must be installed only on the front wheels and not on the rear wheels. Do not use the chains on dry roads.**

Do not drive with tire chains on paved roads which are clear of snow. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

### TIRE ROTATION



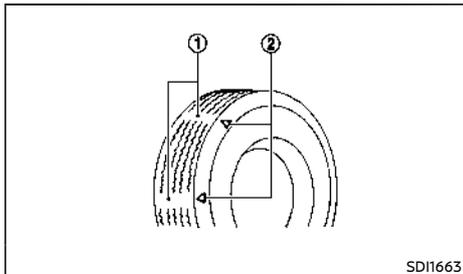
NISSAN recommends that tires be rotated every 10,000 km (6,000 miles). However, the timing for tire rotation may vary according to your driving habits and the road surface conditions. (See "Jacking up vehicle and replacing tires" (P.8-25) for the tire replacement.)



#### **WARNING:**

- **After rotating the tires, adjust the tire pressure.**
- **Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles) (also in cases of a flat tire, etc.).**
- **Incorrect tire selection, fitting, care or maintenance can affect vehicle safety with risk of accident and injury. If in doubt, consult a NISSAN dealer or the tire manufacturer.**

#### TIRE WEAR AND DAMAGE



- ① Wear indicator
- ② Wear indicator location marks. The locations are shown by "△", "TWI", etc. depending on tire types.

Tires should be periodically inspected for wear, cracking, bulging or objects caught in the

tread. If excessive wear, cracks, bulging or deep cuts are found, the tire should be replaced immediately.

The original tires have a built-in tread wear indicator. When the wear indicator is visible, the tire should be replaced.

#### TIRE AGE

Never use a tire over six years old, regardless of whether it has been used or not.

Tires degrade with age as well as with the vehicle usage. Have your tires checked and balanced often by a repair shop or, if you prefer, a NISSAN dealer.

#### CHANGING TIRES AND WHEELS



#### **WARNING:**

**Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.**

When replacing a tire, use the same size, speed rating and load carrying capacity as originally equipped. (See "Tires and wheels" (P.9-5).) The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted, or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, snow chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.

If the wheels are changed for any reason, always replace with wheels which have the same offset/rim width dimension. Wheels of a different offset/rim width could cause early tire

wear, possibly degraded vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear.

#### WHEEL BALANCE

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

#### JACKING UP VEHICLE AND REPLACING TIRES

This section provides the information about the vehicle jack-up procedures and the tire replacement.

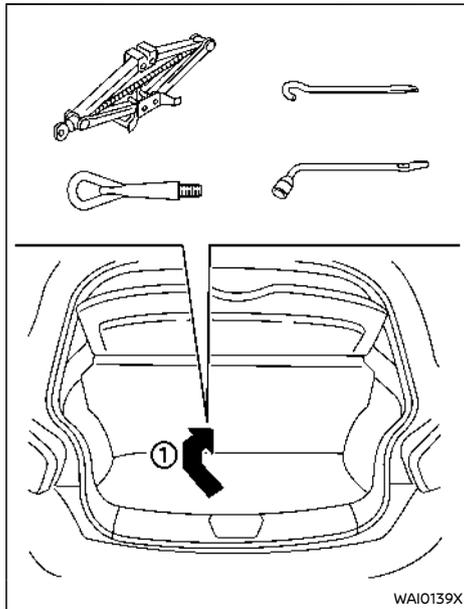
You can temporarily fix a minor tire puncture using the emergency tire puncture repair kit. (See "Repairing flat tire" (P.6-2).)



#### **WARNING:**

- **Be sure to apply the parking brake firmly.**
- **Be sure to push the P position switch to engage the "P" (Park) position.**
- **Never change tires when the vehicle is on a slope, ice or slippery area. This is hazardous.**
- **Never change tires when the oncoming traffic is close to your vehicle. Call for professional road assistance.**

## Preparing tools



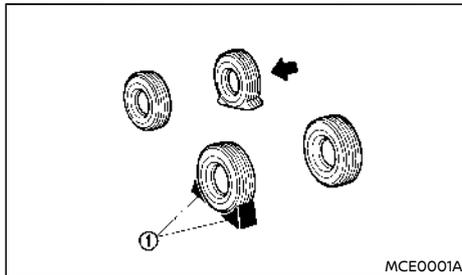
Open the back door. Raise the luggage floor board ①. Remove the jacking tools.

**Jacking tools are not equipped as standard with this vehicle. Contact a NISSAN dealer about acquiring them.**

### CAUTION:

Do not touch floor metal directly. Doing so could result in any burns.

## Blocking wheels



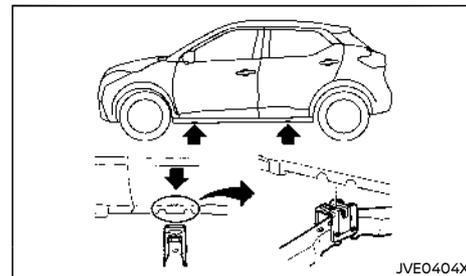
### WARNING:

**Be sure to block the appropriate wheel to prevent the vehicle from moving, which may cause personal injury.**

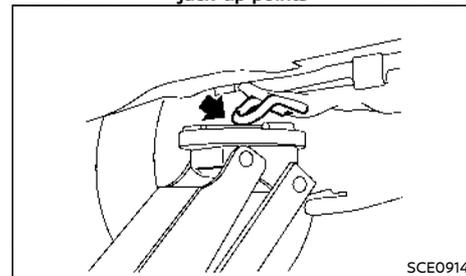
Place suitable blocks ① at both the front and back of the wheel diagonally opposite the flat tire ← to prevent the vehicle from moving when it is jacked up.

## Removing tire

### Jacking up vehicle:

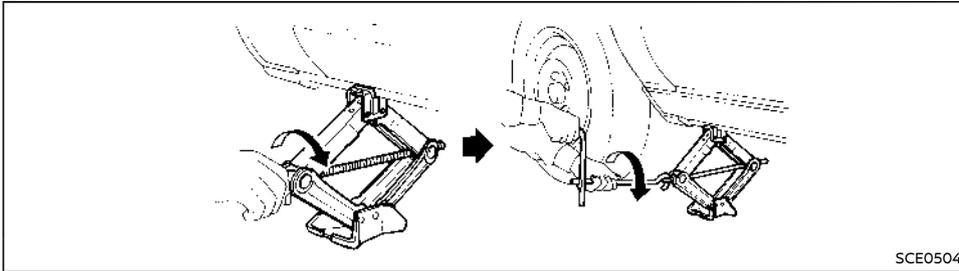


### jack-up points



### Floor jack-up point

For the rear, never jack up the vehicle at a location other than the floor jack-up point that is specified.



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**WARNING:**

- Be sure to read and follow the instructions in this section.
- **DO NOT GET UNDER A VEHICLE THAT IS SUPPORTED BY A JACK.**
- Never use a jack which was not provided with your vehicle.
- The jack, which is provided with your vehicle, is designed only to lift your vehicle during a tire change. Do not use the jack provided with your vehicle on other vehicles.
- Never jack up the vehicle at a location other than the jack-up point that is specified.
- Never lift the vehicle more than necessary.
- Never use blocks on or under the jack.
- Never start or run the e-POWER system while the vehicle is on the jack. The vehicle may move suddenly, and this may cause an accident.

- Never allow passengers to remain in the vehicle while the tire is off the ground.
- Be sure to read the caution label attached to the jack body before using.
- When jacking up the vehicle, be sure to apply the parking brake.

1. Place the jack directly under the jack-up point as illustrated so that the top of the jack contacts the vehicle at the jack-up point.

**The jack should be placed on firm level ground.**

2. Align the jack head between the two notches located at the jack-up point of either the front or the rear section.
3. Fit the groove of the jack head between the notches as shown.
4. Loosen each wheel nut, counterclockwise, one or two turns with the wheel nut wrench.

**Do not remove the wheel nuts until the tire is off the ground.**

5. Carefully raise the vehicle until the clearance between the tire and ground is achieved.

6. To lift the vehicle, securely hold the jack lever and rod with both hands and turn the jack lever.

**Removing tire:**

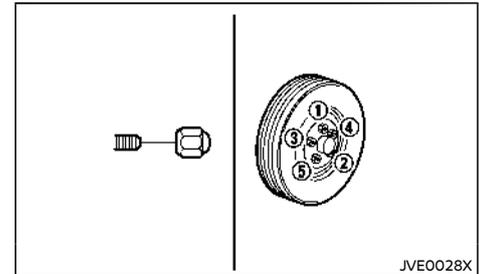
1. Remove the wheel nuts.
2. Remove the damaged tire.



**CAUTION:**

**The tire is heavy. Be sure that your feet are clear from the tire and use gloves as necessary to avoid injury.**

**Installing tire**



JVE0028X



**WARNING:**

- Never use wheel nuts which are not provided with your vehicle. Incorrect wheel nuts or improperly tightened wheel nuts may cause the wheel to become loose or come off. This could cause an accident.
- Never use oil or grease on the wheel studs or nuts. This may cause the wheel nuts to become loose.

1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the tire on and tighten the wheel nuts with your fingers. Check that all the wheel nuts contact the wheel surface horizontally.
3. Tighten the wheel nuts alternately and evenly, more than 2 times in the sequence illustrated (① - ⑤), with the wheel nut wrench, until they are tight.
4. Lower the vehicle slowly until the tire touches the ground.
5. Tighten the wheel nuts securely, with the wheel nut wrench, in the sequence illustrated.
6. Lower the vehicle completely.

**Tighten the wheel nuts to the specified torque with a torque wrench as soon as possible.**

**Wheel nut tightening torque:  
108 N·m (11 kg·m, 80 ft·lb)**

**The wheel nuts must be kept tightened to specification at all times. It is recommended that the wheel nuts be tightened to specification at each lubrication interval.**



**WARNING:**

**Retighten the wheel nuts when the vehicle has been driven for 1,000 km (600 miles). (also in cases of a flat tire, etc.)**

## Stowing damaged tire and tools



**WARNING:**

**Be sure that the tire, jack and tools used are properly stored after use. Such items can become dangerous projectiles in an accident or sudden stop.**

1. Securely store the damaged tire, jack and tools used in the storage area.
2. Replace the luggage floor board.
3. Close the back door.

## EMERGENCY TIRE PUNCTURE REPAIR KIT

The emergency tire puncture repair kit is supplied to the vehicle instead of a spare tire. The kit must be used for temporarily fixing a minor tire puncture. After using the repair kit, see a NISSAN dealer as soon as possible for tire inspection and repair/replacement.

See "Flat tire" (P.6-2) for more details.

# 9 Technical information

Recommended fluids/lubricants and capacities .....	9-2	Vehicle Identification Number (VIN) .....	9-6
Fuel information .....	9-3	Engine serial number .....	9-6
Recommended SAE viscosity number .....	9-3	Tire placard .....	9-6
Air conditioner system refrigerant and lubricant .....	9-3	Air conditioner specification label .....	9-7
Engine .....	9-4	Installation of an RF transmitter .....	9-7
Tires and wheels .....	9-5	Radio approval number and information .....	9-8
Dimensions .....	9-5	For Thailand .....	9-8
When travelling or registering in another country .....	9-6	For Singapore .....	9-8
Vehicle identification .....	9-6	For Indonesia .....	9-9
Vehicle identification label .....	9-6		



## RECOMMENDED FLUIDS/ LUBRICANTS AND CAPACITIES

The following are approximate capacities. The actual refill quantities may be slightly different. When refilling, follow the procedures instructed in the "8. Maintenance and do-it-yourself" section to determine the proper refill capacity.

Fluid type		Capacity (approximate)			Recommended Fluids/Lubricants
		Metric Measure	US Measure	Imperial Measure	
Fuel		41 L	10-7/8 gal	9 gal	See "Fuel information" (P.9-3).
Engine oil Drain and refill * For additional information, see "Changing engine oil and oil filter" (P.8-8).	with oil filter change	3.4 L	3-5/8 qt	3 qt	<ul style="list-style-type: none"> <li>· Genuine "NISSAN Motor Oil 0W-20 SN" is recommended.</li> <li>· If the above motor oil is not available, use "NISSAN Motor Oil" or equivalent that matches the following grade and viscosity.               <ul style="list-style-type: none"> <li>· Oil grade: API SN, ILSAC GF-5</li> <li>· SAE Viscosity: See "Recommended SAE viscosity number" (P.9-3).</li> </ul> </li> </ul>
	without oil filter change	3.2 L	3-3/8 qt	2-7/8 qt	
Engine coolant	Total	5.77 L	6-1/8 qt	5-1/8 qt	<ul style="list-style-type: none"> <li>· Genuine NISSAN Engine Coolant (blue) or equivalent</li> <li>· Use Genuine NISSAN Engine Coolant or equivalent in its quality, in order to avoid possible aluminum corrosion within the engine/inverter cooling system caused by the use of non-genuine engine coolant.</li> <li>· Note that any repairs for the incidents within the engine/inverter cooling system while using non-genuine engine coolant may not be covered by the warranty even if such incidents occurred during the warranty period.</li> </ul>
	Reservoir	0.77 L	7/8 qt	5/8 qt	
Inverter coolant	Total	3.56 L	3-3/4 qt	3-1/8 qt	
	Reservoir	0.57 L	5/8 qt	1/2 qt	
Gear fluid		—	—	—	<ul style="list-style-type: none"> <li>· Genuine NISSAN Matic S ATF</li> <li>· Using gear fluid other than Genuine NISSAN Matic S ATF will cause deterioration in drivability and gear box durability, and may damage the gear box, which is not covered by the warranty.</li> </ul>
Brake fluid		Refill to the proper fluid level according to the instructions in the "8. Maintenance and do-it-yourself" section.			<ul style="list-style-type: none"> <li>· Genuine NISSAN Brake Fluid or equivalent DOT 3</li> </ul>
Multi-purpose grease		—	—	—	<ul style="list-style-type: none"> <li>· NLGI No. 2 (Lithium soap base)</li> </ul>
Air conditioner system refrigerant		—	—	—	<ul style="list-style-type: none"> <li>· HFC-134a (R-134a)</li> </ul>
Air conditioner system lubricants		—	—	—	<ul style="list-style-type: none"> <li>· Compressor Oil AE10 or equivalent</li> </ul>

## FUEL INFORMATION

Gasoline engine (model with three-way catalyst)



### CAUTION:

**Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**

For Thailand:

Use UNLEADED REGULAR gasoline or gasohol (up to E20\*) with an octane rating of at least 91 (RON).

\*: Gasohol is alcohol blended gasoline. For example, "E20" is a mixture of approximately 20% fuel ethanol and 80% unleaded gasoline.

Except for Thailand:

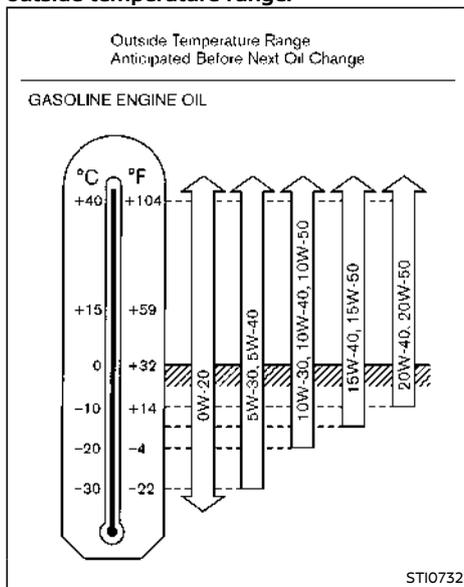
Use UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON).

## RECOMMENDED SAE VISCOSITY NUMBER

Gasoline engine oil

**0W-20 is preferable.**

**If 0W-20 is not available, select the viscosity, from the chart below, that is suitable for the outside temperature range.**



## AIR CONDITIONER SYSTEM REFRIGERANT AND LUBRICANT

The air conditioner system of your vehicle must be charged with the refrigerant HFC-134a (R134a) and the lubricant Compressor Oil AE10 or equivalents. Use of any other refrigerants or lubricants will cause severe damage, and you may need to replace your vehicle's entire air conditioner system.

The release of refrigerants into the atmosphere is prohibited in many countries and regions. The refrigerant HFC-134a (R-134a) in your vehicle will not harm the Earth's ozone layer. However, it may contribute in a small part to the global warming effect. NISSAN recommends that the refrigerant be appropriately recovered and recycled. Contact a NISSAN dealer when servicing the air conditioner system.

## ENGINE

Engine model		HR12DE
Type		Gasoline, 4-cycle, DOHC
Cylinder arrangement		3-cylinder, in-line
Bore × Stroke	mm (in)	78.0 × 83.6 (3.071 × 3.291)
Displacement	cm <sup>3</sup> (cu in)	1,198 (73.10)
Idle speed at the maintenance mode	rpm	1,400
Ignition timing (B.T.D.C.) at the maintenance mode	degree at idle	38°
Spark plugs		
Type	Standard	LZKAR6AP-11
Gap	mm (in)	1.1 (0.043)
Camshaft operation		Timing chain

## TIRES AND WHEELS

	Standard	Spare
Tire size	205/55R17 91V	- (*)

	Size	Offset mm (in)
Road wheel	Aluminum 17×6 1/2J	45 (1.77)

\*: The emergency tire puncture repair kit is supplied.

## DIMENSIONS

	Unit: mm (in)
Overall length	4,305 (169.5) *1 4,290 (168.9) *2
Overall width	1,760 (69.3)
Overall height	1,615 (63.6)
Front tread	1,520 (59.8)
Rear tread	1,535 (60.4)
Wheelbase	2,620 (103.1)

\*1: For Indonesia and Brunei

\*2: Except for Indonesia and Brunei

## WHEN TRAVELLING OR REGISTERING IN ANOTHER COUNTRY

When planning to travel in another country or region, find out whether the fuel required for your vehicle is available in that country or region. Using a low octane rated fuel may cause engine damage. Therefore, be sure that the required fuel is available wherever you go. For additional information regarding recommended fuel, see "Fuel information" (P.9-3).

When transferring the registration of your vehicle to another country, state, province or district, contact the appropriate authorities to find out that the vehicle complies with the local legal requirements. In some cases, a vehicle cannot meet the legal requirements, and it may be necessary to modify the vehicle to meet local laws and regulations. In addition, there may be possibilities that a vehicle cannot be adapted in certain areas.

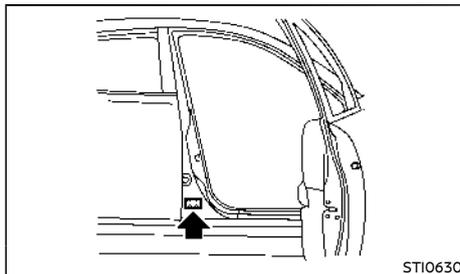
The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, the vehicle specification may differ.

When any vehicles are to be taken into another country, state, province or district, its modification, transportation, registration, and any other expenses which may result, are the responsibility of the user. NISSAN is not responsible for any inconveniences that may result.

## VEHICLE IDENTIFICATION

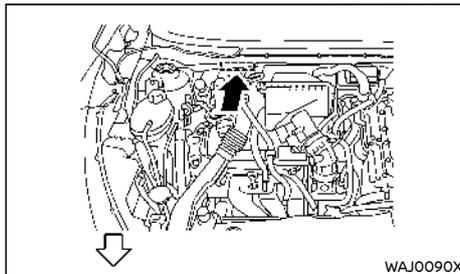
It is prohibited to cover, paint, weld, cut, drill, alter or remove Vehicle Identification Number (VIN).

### VEHICLE IDENTIFICATION LABEL



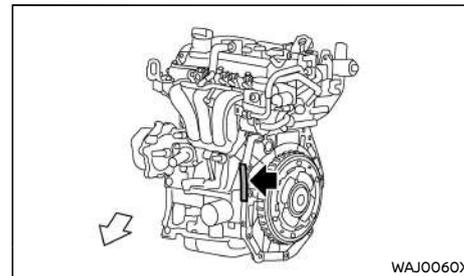
The vehicle identification label is affixed to the driver's side center pillar.

### VEHICLE IDENTIFICATION NUMBER (VIN)



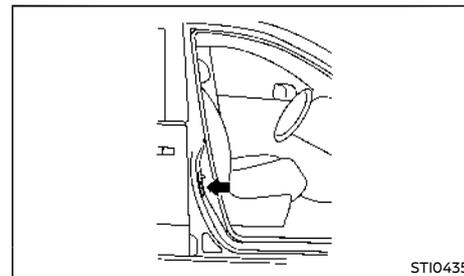
The vehicle identification number is stamped as shown.

### ENGINE SERIAL NUMBER



The engine serial number is stamped on the engine as shown.

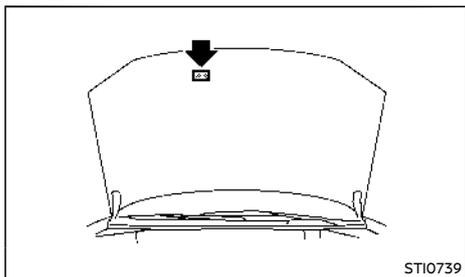
### TIRE PLACARD



The cold tire pressures are shown on the tire placard affixed to the driver's side center pillar.

## INSTALLATION OF AN RF TRANSMITTER

### AIR CONDITIONER SPECIFICATION LABEL



The air conditioner specification label is affixed to the underside of the hood as shown.

### For countries conforming to UN regulation No.10 or equivalent:

The installation of an RF transmitter in your vehicle could affect electric equipment systems. Be sure to check with your NISSAN dealer for precautionary measures or special instructions regarding installation. Upon request, your NISSAN dealer will provide the detailed information (frequency band, power, antenna position, installation guide, etc.) regarding installation.

## RADIO APPROVAL NUMBER AND INFORMATION

### FOR THAILAND

This telecommunication equipment is in compliance with NBTC requirements.

- BCM (Body Control Module)

### Front radar sensor (if equipped)

- 1) เครื่องวิทยุคมนาคมจะอุปกรณ์ที่มีความสอดคล้องตามมาตรฐานหรือข้อกำหนดของ กสทช.
- 2) เครื่องวิทยุคมนาคมมีระบบการแผ่คลื่นแม่เหล็กไฟฟ้าที่สอดคล้องตามมาตรฐานความปลอดภัยต่อสุขภาพของมนุษย์จากการใช้คลื่นวิทยุคมนาคมที่คณะกรรมการจัดการวิทยุคมนาคมแห่งชาติได้ประกาศกำหนด

WAJ0082X

### FOR SINGAPORE

### Front radar sensor (if equipped)

Complies with  
IMDA Standards  
DA03389

WAJ0093X

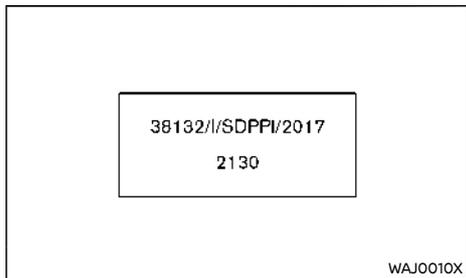
### Side radar sensor (if equipped)

Complies with  
IMDA Standards  
DA03389

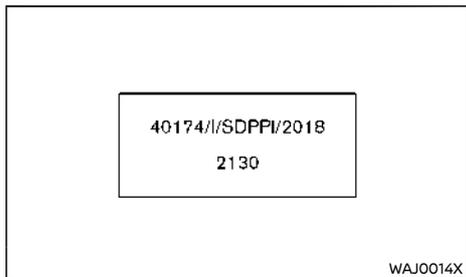
WAJ0093X

FOR INDONESIA

Front radar sensor (if equipped)



Side radar sensor (if equipped)



**MEMO**

**MEMO**

**MEMO**

# 10 Index

Number	
12-volt battery.....	8-15
Vehicle 12-volt battery.....	8-15

## A

Aiming control, Headlights.....	2-30
Air bag system.....	1-24
Air bag warning labels.....	1-23
Air bag warning light.....	1-24
Supplemental curtain side-impact air bag system.....	1-20, 1-25
Supplemental driver's knee air bag system.....	1-26
Supplemental driver's knee air bag.....	1-20
Supplemental front-impact air bag system.....	1-20, 1-25
Supplemental side-impact air bag system.....	1-20, 1-25
Air cleaner filter.....	8-12
Air conditioner	
Air conditioner operation.....	4-15
Air conditioner service.....	4-17
Air conditioner specification label.....	9-7
Air conditioner system refrigerant and lubricant.....	9-3
Air fresheners.....	7-4
Aluminum alloy wheels.....	7-3
AM-FM Radio with USB (Universal Serial Bus) connection port.....	4-24
Antenna.....	4-30
Anti-lock Braking System (ABS).....	5-51
Anti-lock braking system (ABS) warning light.....	2-9
Appearance care	
Exterior appearance care.....	7-2
Interior appearance care.....	7-3

Approaching Vehicle Sound for Pedestrians (VSP) system.....	e-POWER System-10
Audible reminders.....	2-13
Audio control steering wheel switch.....	4-28
Audio operation precautions.....	4-17
Audio system.....	4-17
Automatic brake hold.....	3-24
Automatic cooler.....	4-16
Auxiliary input jack.....	4-29

## B

Back door.....	3-14
Battery.....	8-4
Battery replacement, Intelligent Key.....	8-17
Intelligent Key.....	8-17
Intelligent Key battery discharge.....	5-6
Lithium ion (Li-ion) battery.....	e-POWER System-3
Variable voltage control system.....	8-18
Battery saver system.....	2-30
Before starting e-POWER system.....	5-3
Before using emergency tire puncture repair kit.....	6-3
Blind Spot Warning (BSW).....	5-14
Blocking wheels.....	8-26
Bluetooth® Hands-Free Phone System.....	4-31
Bluetooth® settings.....	4-32
Brake	
Brake booster.....	8-10
Brake fluid.....	8-11
Brake precautions.....	5-50
Brake system.....	5-50
Brakes.....	8-10
Checking foot brake pedal.....	8-10
Checking parking brake.....	8-10
Electronic parking brake system warning light.....	2-10
Parking brake.....	3-22, 5-53

Regenerative brake.....	e-POWER System-3, 5-50
Warning light.....	2-9
Brake assist.....	5-51
Brake precautions.....	5-50
Brakes.....	8-10
Brightness control, Instrument panel.....	2-7
Bulb replacement.....	8-2, 8-21

## C

Camera aiding parking sensor (sonar) function.....	4-10
Card holder.....	2-36
Care when driving.....	5-4
Cargo cover.....	2-37
Catalytic converter, Three way catalyst.....	5-4
Changing	
Changing engine coolant.....	8-6
Changing engine oil and oil filter.....	8-8
Changing tires and wheels.....	8-25
Changing inverter coolant.....	8-7
Charge mode.....	e-POWER System-8
Chassis control.....	5-12
Checking	
Checking engine coolant level.....	8-6
Checking engine oil level.....	8-8
Checking foot brake pedal.....	8-10
Checking lights.....	2-9
Checking parking brake.....	8-10
Checking inverter coolant level.....	8-7
Child restraint anchorage.....	1-15
Child restraint installation using ISOFIX.....	1-15
Child restraint installation using three-point type seat belt.....	1-17
Child restraints.....	1-10
Child safety.....	1-7
Child safety rear door lock.....	3-4
Chimes, Audible reminders.....	2-13
Chrome parts.....	7-3

Circuit breaker, Fusible link.....	8-18, 8-21
Cleaning exterior and interior.....	7-2, 7-3
Clock.....	2-28
Closing hood.....	3-14
Cockpit.....	2-2
Cold weather driving.....	5-53
Console box.....	2-36
Coolant	
Changing engine coolant.....	8-6
Checking engine coolant level.....	8-6
Coolant Temp. (trip computer).....	2-28
High Coolant Temp warning.....	2-21
Cooler.....	4-15
Cooler operation.....	4-15
Corrosion protection.....	7-5
Cover, Cargo cover.....	2-37
Cruise control.....	5-30
Fixed speed cruise control (on ICC system).....	5-42
Intelligent Cruise Control (ICC).....	5-31
Cup holders.....	2-36

## D

Defogger switch.....	2-32
Dimensions.....	9-5
Display	
Vehicle information display.....	2-14
Doors.....	3-3
Drive mode	
e-POWER Drive.....	e-POWER System-7
Driving	
Care when driving.....	5-4
Cold weather driving.....	5-53
Driving in wet conditions.....	5-4
Driving in winter conditions.....	5-5
e-POWER Drive.....	e-POWER System-7
Precautions when starting and driving.....	5-3
Driving range.....	2-5

Driving vehicle.....	5-8
----------------------	-----

## E

e-POWER Drive.....	e-POWER System-7
e-POWER system.....	e-POWER System-2
Before starting e-POWER system.....	5-3
e-POWER system start operation indicator.....	2-20
e-POWER	
system precautions.....	e-POWER System-4
e-POWER system start operation indicator.....	2-20
e-POWER system warning light.....	2-10
ECO Drive Report.....	2-6
ECO mode.....	e-POWER System-7
Economy, Fuel.....	5-46
Efficient use of your vehicle.....	e-POWER System-6
Electric power steering.....	5-50
Electric power steering warning light.....	2-10
Electric shift control system.....	5-8
Electric shift control system warning light.....	2-10
Emergency Brake	
Intelligent Emergency Braking system.....	5-24
Emergency	
shut-off system.....	e-POWER System-6
Emergency tire puncture repair kit.....	6-2, 8-28
Energy monitor.....	2-26
Engine	
Changing engine coolant.....	8-6
Changing engine oil and oil filter.....	8-8
Checking engine coolant level.....	8-6
Checking engine oil level.....	8-8
Engine compartment check locations.....	8-5
Engine cooling system.....	8-6
Engine oil.....	8-8
Engine serial number.....	9-6
Engine specifications.....	9-4

If your vehicle overheats.....	6-7
Spark plugs.....	8-10
Engine cold start period.....	5-4
EV mode.....	e-POWER System-9
Exhaust gas (carbon monoxide).....	5-3
Explanation of general maintenance items.....	8-2
Extended storage fuse switch.....	8-20
Exterior lights.....	8-21

## F

Flat tire.....	6-2
Floor mats.....	7-4
Fluid	
Brake fluid.....	8-11
Engine coolant.....	8-6
Engine oil.....	8-8
Gear fluid.....	8-12
Inverter coolant.....	8-7
Recommended fluids/lubricants and capacities.....	9-2
Window washer fluid.....	8-4, 8-14
Fog light switch.....	2-31
Freeing trapped vehicle.....	6-8
Front seats.....	1-2
Front-impact air bag system.....	1-25
Fuel	
Fuel economy.....	5-46
Fuel information.....	9-3
Fuel octane rating.....	9-3
Fuel-filler cap.....	3-16
Fuel-filler lid.....	3-16
Gauge.....	2-5
Opening fuel-filler lid.....	3-16
Recommended fluids/lubricants and capacities.....	9-2
Fuel Efficiency and Carbon Dioxide Reduction driving tips.....	5-45
Fuel-filler cap.....	3-16
Fuel-filler lid.....	3-16
Fuses.....	8-18

Fusible links..... 8-18, 8-21

## G

### Gauge

Fuel gauge..... 2-5  
Li-ion battery available charge gauge..... 2-6  
Speedometer..... 2-4  
Trip computer..... 2-25  
Gear fluid..... 8-12  
General maintenance..... 8-2  
Glove box..... 2-36

## H

Hands-free phone control steering  
wheel switch..... 4-31  
Hazard indicator and outside chime..... 3-10  
Hazard indicator flasher switch..... 6-2  
Head restraints..... 1-4  
Headlight  
Headlight and turn signal switch..... 2-29  
Headlights  
Aiming control..... 2-30  
Bulb replacement..... 8-21  
Headlight switch..... 2-29  
High Coolant Temp warning..... 2-21  
Hill start assist system..... 5-13  
Hood release..... 3-13  
Horn..... 2-33

## I

Indicator  
Vehicle information display..... 2-14  
Indicator lights..... 2-11  
Injured persons..... 1-8  
Inside rearview mirror..... 3-17  
Installing tire..... 8-27  
Instrument brightness control..... 2-7  
Instrument panel..... 2-3

Intelligent Around View Monitor..... 4-3  
Intelligent Cruise Control (ICC)..... 5-31  
Intelligent Driver Alertness..... 5-46  
Intelligent Emergency Braking system..... 5-24  
Intelligent Emergency Braking system  
warning light..... 2-10  
Intelligent Key..... 3-2  
Intelligent Key battery..... 8-17  
Intelligent Key battery discharge..... 5-6  
Intelligent Key system..... 3-4, 5-5  
Key System Error warning..... 2-21  
Intelligent Rear View Mirror..... 3-17  
Intelligent Trace Control..... 5-12  
Interior lights..... 2-38, 8-21  
Inverter cooling system..... 8-7  
ISOFIX child restraint system..... 1-14

## J

Jacking up vehicle..... 8-25  
Jump starting..... 6-5

## K

### Key

Intelligent Key battery..... 8-17  
Intelligent Key battery discharge..... 5-6  
Intelligent Key system..... 3-4, 5-5  
Keys..... 3-2  
Locking with key..... 3-3  
Mechanical key..... 3-2  
Using Intelligent Key system..... 3-6  
Using remote keyless entry system  
(Intelligent Key)..... 3-10  
Key Battery Low warning..... 2-20  
Key ID Incorrect warning..... 2-21  
Key System Error warning..... 2-21  
Keyless entry (See remote keyless  
entry system)..... 3-10

## L

### Labels

Air conditioner specification label..... 9-7  
Engine serial number..... 9-6  
Vehicle identification number..... 9-6  
Li-ion battery available charge gauge..... 2-6

### Light

Bulb replacement..... 8-2, 8-21  
Exterior lights..... 8-21  
Fog light switch..... 2-31  
Headlight and turn signal switch..... 2-29  
Headlight switch..... 2-29  
Headlights..... 8-21  
Indicator lights..... 2-11  
Interior lights..... 2-38, 8-21  
Light locations..... 8-22  
Luggage room light..... 2-39  
Map lights..... 2-38  
Replacement..... 8-2, 8-21  
Room light..... 2-39  
Vanity mirror light..... 2-39  
Warning lights..... 2-9

### Lithium ion

(Li-ion) battery..... e-POWER System-3

### Lock

Anti-lock Braking System (ABS)..... 5-51  
Back door lock..... 3-14  
Child safety rear door lock..... 3-4  
Doors..... 3-3  
Locking with inside lock knob..... 3-3  
Locking with key..... 3-3  
Locking with power door lock switch..... 3-4  
Low Fuel warning..... 2-21  
Low outside temperature warning..... 2-28  
Luggage compartment..... 8-20  
Luggage hooks..... 2-37  
Luggage light..... 2-39

**M**

Maintenance	
12-volt battery.....	8-15
Battery.....	8-4
Explanation of general maintenance items.....	8-2
General maintenance.....	8-2
Maintenance precautions.....	8-4
Maintenance requirements.....	8-2
Scheduled maintenance.....	8-2
Seat belt maintenance.....	1-10
Malfunction indicator light (MIL).....	2-12
Map lights.....	2-38
Master warning light.....	2-10
Mechanical key.....	3-2
Meter	
Trip computer.....	2-25
Meters and gauges.....	2-4
Instrument brightness control.....	2-7
Mirror	
Inside rearview mirror.....	3-17
Intelligent Rear View Mirror.....	3-17
Mirrors.....	3-17
Outside rearview mirrors.....	3-21
Moving Object Detection (MOD) function.....	4-12

**N**

Neutral hold mode.....	5-10
NISSAN Anti-Theft System (NATS).....	3-12
NissanConnect Owner's Manual.....	4-2
No Key Detected warning.....	2-20

**O**

Odometer/Twin trip odometer.....	2-4
Oil	
Changing engine oil and oil filter.....	8-8
Checking engine oil level.....	8-8

Engine oil.....	8-8
Opening fuel-filler lid.....	3-16
Opening hood.....	3-14
Outside air temperature.....	2-28
Outside rearview mirrors.....	3-21
Overheat, if your vehicle overheats.....	6-7

**P**

P position switch.....	5-8
Parking	
Brake break-in.....	5-51
Parking brake.....	3-22
Parking brake	
Electronic parking brake indicator light.....	2-11
Parking sensor indicator.....	2-23
Parking sensor system.....	5-48
Parking sensor system OFF switch.....	5-48
Parking, Parking brake.....	5-53
Passenger compartment.....	8-19
Phone	
Bluetooth® Hands-Free Phone System.....	4-31
Platinum-tipped spark plugs.....	8-10
Power	
Electric power steering.....	5-50
Locking with power door lock switch.....	3-4
Power outlet.....	2-35
Power windows.....	2-33
Power limitation indicator light.....	2-12
Power meter.....	2-5
Power switch	
Power switch positions.....	5-6
Push-button power switch.....	5-5
Power switch positions.....	5-6
Pre-tensioner seat belt system.....	1-23, 1-28
Precautions	
Audio operation.....	4-17
Brake precautions.....	5-50
Cruise control.....	5-30
e-POWER system.....	e-POWER System-4

Maintenance.....	8-4
Precautions on child restraint usage.....	1-10
Precautions on push-button power switch operation.....	5-5
Precautions on Supplemental Restraint System.....	1-20
Precautions when starting and driving.....	5-3
Seat belt usage.....	1-6
Towing precautions.....	6-8
Pregnant women.....	1-8
Preparing tools.....	8-26
Push starting.....	6-7
Push-button power switch.....	5-5

**R**

Radio.....	4-17
AM-FM Radio with USB connection port.....	4-24
READY to drive indicator light.....	2-13
Rear Cross Traffic Alert (RCTA).....	5-19
Rear seats.....	1-3
Rear window wiper and washer switch.....	2-32
Recommended fluids/lubricants and capacities.....	9-2
Recommended SAE viscosity number.....	9-3
Regenerative brake.....	e-POWER System-3, 5-50
Remote keyless entry system (Intelligent Key).....	3-10
Removing spots.....	7-2
Removing tire.....	8-26
Repairing flat tire.....	6-2
Replacing tires.....	8-25
Road accident cautions.....	e-POWER System-5
Roof rack.....	2-37
Room light.....	2-39

## S

S (Smart) mode.....	e-POWER System-7
<b>Safety</b>	
Child safety.....	1-7
Child safety rear door lock.....	3-4
Scheduled maintenance.....	8-2
<b>Seat</b>	
Front seats.....	1-2
Precautions on seat belt usage.....	1-6
Seat belts.....	1-6, 7-4
Seats.....	1-2
Three-point type seat belts.....	1-8
Seat belt warning light.....	2-11
<b>Seat belt(s)</b>	
Child safety.....	1-7
Cleaning.....	7-4
Injured persons.....	1-8
Pre-tensioner seat belt system.....	1-23, 1-28
Precautions on seat belt usage.....	1-6
Pregnant women.....	1-8
Seat belt hooks.....	1-9
Seat belt maintenance.....	1-10
Shoulder belt height adjustment.....	1-9
Security system.....	3-12
Shift position indicator.....	2-7
Shoulder belt height adjustment.....	1-9
Soft bottle holder.....	2-36
Sonar system.....	5-48
Sonar system OFF switch.....	5-48
Spark plugs.....	8-10
Speedometer.....	2-4
SRS air bag deployment conditions.....	1-26
<b>Starting</b>	
Before starting e-POWER system.....	5-3
Jump starting.....	6-5
Precautions when starting and driving.....	5-3
Push starting.....	6-7
Starting the e-POWER system.....	5-7

<b>Steering</b>	
Audio control steering wheel switch.....	4-28
Electric power steering.....	5-50
Hands-free phone control steering wheel switch.....	4-31
Steering wheel.....	3-16
Stopping vehicle.....	6-2
Storage.....	2-36
Stowing damaged tire and tools.....	8-28
Sun visors.....	2-38
<b>Supplemental air bag system</b>	
Supplemental curtain side-impact air bag system.....	1-25
Supplemental front-impact air bag system.....	1-25
Supplemental side-impact air bag system.....	1-25
Supplemental air bag systems.....	1-24
Supplemental driver's knee air bag system.....	1-26
Supplemental curtain side-impact air bag system.....	1-20, 1-25
Supplemental driver's knee air bag system.....	1-20
Supplemental front-impact air bag system.....	1-20, 1-25
Supplemental Restraint System (SRS).....	1-20
Supplemental side-impact air bag system.....	1-20, 1-25
<b>Switch</b>	
Audio control steering wheel switch.....	4-28
Defogger switch.....	2-32
Drive mode switch.....	e-POWER System-7
EV mode switch.....	e-POWER System-8, e-POWER System-9
Fog light switch.....	2-31
Hands-free phone control steering wheel switch.....	4-31
Hazard indicator flasher switch.....	6-2
Headlight aiming control.....	2-30
Headlight and turn signal switch.....	2-29
Headlight switch.....	2-29

P position switch.....	5-8
Power door lock switch.....	3-4
Turn signal switch.....	2-30
<b>Vehicle Dynamic Control (VDC)</b>	
OFF switch.....	5-12
Wiper and washer switch.....	2-31

## T

Theft warning system.....	3-12
Three-point type seat belts.....	1-8
Three-way catalyst.....	5-4
<b>Tire</b>	
Changing tires and wheels.....	8-25
Installing tire.....	8-27
Preparing tools.....	8-26
Removing tire.....	8-26
Stowing damaged tire and tools.....	8-28
Tire age.....	8-25
Tire equipment.....	5-53
Tire inflation pressure.....	8-24
Tire placard.....	9-6
Tire wear and damage.....	8-25
Tires and wheels.....	8-24, 9-5
<b>Tires</b>	
Flat tire.....	6-2
Tire chains.....	8-24
Tire rotation.....	8-3, 8-24
Types of tires.....	8-24
Tonneau cover (see cargo cover).....	2-37
<b>Towing</b>	
Towing e-POWER model.....	6-8
Towing precautions.....	6-8
Towing your vehicle.....	6-8
Trailer towing.....	5-49
<b>Transmitter (See remote keyless entry system)</b>	
Trip computer.....	2-25
Troubleshooting guide.....	3-9
Turn signal switch.....	2-30

Types of tires..... 8-24

## U

Underbody cleaning..... 7-3  
USB (Universal Serial Bus)  
charging connector..... 2-35  
USB connection port..... 4-29  
Using Intelligent Key system..... 3-6  
Using remote keyless entry system  
(Intelligent Key)..... 3-10

## V

Vanity mirror light..... 2-39  
Variable voltage control system..... 8-18  
Vehicle  
    Dimensions..... 9-5  
    Identification number..... 9-6  
Vehicle 12-volt battery..... 8-15  
Vehicle Dynamic Control (VDC) system.... 5-11  
Vehicle dynamic control (VDC)  
warning light..... 2-11  
Vehicle information display..... 2-14  
    How to use the vehicle  
    information display..... 2-14  
    Settings..... 2-14  
    Startup display..... 2-14  
    Vehicle information display warnings  
    and indicators..... 2-19  
Vehicle security..... 5-52  
Ventilators..... 4-14  
VSP system..... e-POWER System-10

## W

Warning  
    Key Battery Low warning..... 2-20  
    Key System Error warning..... 2-21  
    Lights..... 2-9  
    Vehicle information display..... 2-14

Warning lights..... 2-9  
Warning lights, indicator lights and  
audible reminders..... 2-8  
Warning light  
    e-POWER system warning light..... 2-10  
    Electric shift control system  
    warning light..... 2-10  
    Electronic parking brake  
    indicator light..... 2-11  
    Electronic parking brake system  
    warning light..... 2-10  
Washer switch  
    Rear window wiper and  
    washer switch..... 2-32  
    Windshield wiper and  
    washer switch..... 2-31  
Washing..... 7-2  
Waxing..... 7-2  
Wheels and tires, Care of wheels..... 7-3  
When travelling or registering in  
another country..... 9-6  
Where to go for service..... 8-2  
Window washer fluid..... 8-4, 8-14  
Window(s)  
    Cleaning..... 7-3, 7-4  
    Power windows..... 2-33  
Windows..... 2-33  
Windshield wiper and washer switch..... 2-31  
Wiper  
    Rear window wiper and  
    washer switch..... 2-32  
    Windshield wiper and  
    washer switch..... 2-31  
    Wiper and washer switch..... 2-31  
    Wiper blades..... 8-12

**MEMO**

## GAS STATION INFORMATION

### FUEL INFORMATION

Gasoline engine (Model with three-way catalyst)



#### CAUTION:

**Do not use leaded gasoline. Using leaded gasoline will damage the three-way catalyst.**

For Thailand:

Use UNLEADED REGULAR gasoline or gasohol (up to E20\*) with an octane rating of at least 91 (RON).

\*: Gasohol is alcohol blended gasoline. For example, "E20" is a mixture of approximately 20% fuel ethanol and 80% unleaded gasoline.

Except for Thailand:

Use UNLEADED REGULAR gasoline with an octane rating of at least 91 (RON).

### RECOMMENDED ENGINE OIL

See "Recommended fluids/lubricants and capacities" (P.9-2).

### TIRE COLD PRESSURE

See the tire placard affixed to the driver's side center pillar.

## QUICK REFERENCE

- In case of emergency ... (P.6-1)  
(Flat tire, e-POWER system will not start, overheating, towing)
- How to start the e-POWER system ... (P.5-1)
- How to read the meters and gauges ... (P.2-1)
- Maintenance and do-it-yourself ... (P.8-1)
- Technical information ... (P.9-1)