FOREWORD

Your INFINITI represents a new way of thinking about vehicle design. It integrates advanced engineering and superior craftsmanship with a simple, refined aesthetic sensitivity associated with traditional Japanese culture.

The result is a different notion of luxury and beauty. The car itself is important, but so is the sense of harmony that the vehicle evokes in its driver, and the sense of satisfaction you feel with the INFINITI — from the way it looks and drives to the high level of retailer service.

To ensure that you enjoy your INFINITI to the fullest, we encourage you to read this Owner's Manual immediately. It explains all of the features, controls and performance characteristics of your INFINITI; it also provides important instructions and safety information.

A separate Warranty Information Booklet is included in your Owner's literature portfolio. The INFINITI Service and Maintenance Guide explains details about maintaining and servicing your vehicle. Always carry it with you when you take your vehicle to an INFINITI retailer. The Warranty Information Booklet contents provide complete information about all warranties covering this vehicle, the requirements to keep the warranties in effect as well as the INFINITI Roadside Assistance program.

Additionally, a separate Customer Care and Lemon Law Information Booklet will explain how to resolve any concerns you may have with your vehicle, as well as clarify your rights under your state's lemon law.

READ FIRST — THEN DRIVE SAFELY

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

WARNING

IMPORTANT SAFETY INFORMATION REMINDERS FOR SAFETY!

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

- NEVER drive under the influence of alcohol or drugs.
- ALWAYS observe posted speed limits and never drive too fast for conditions.
- ALWAYS give your full attention to driving and avoid using vehicle features or taking other actions that could distract you.
- ALWAYS use your seat belts and appropriate child restraint systems. Pre-teen children should be seated in the rear seat.
- ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.
- ALWAYS review this Owner's Manual for important safety information.
MODIFICATION OF YOUR VEHICLE

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

WHEN READING THE MANUAL

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

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

IMPORTANT INFORMATION ABOUT THIS MANUAL

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

**WARNING**

This is used to indicate the presence of a hazard that could cause death or serious personal injury. To avoid or reduce the risk, the procedures must be followed precisely.

**CAUTION**

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

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

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

Arrows in an illustration that are similar to those above indicate movement or action.
Arrows in an illustration that are similar to those above call attention to an item in the illustration.

CALIFORNIA PROPOSITION 65 WARNING

- Engine Exhaust, some of its constituents, and certain vehicle components contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain or emit chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

CALIFORNIA PERCHLORATE ADVISORY

- Some vehicle parts, such as lithium batteries, may contain perchlorate material. The following advisory is provided: “Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate.”

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INFINITI CUSTOMER CARE PROGRAM

INFINITI CARES...

Both INFINITI and your INFINITI retailer are dedicated to serving all your automotive needs. Your satisfaction with your vehicle and your INFINITI retailer are our primary concerns. Your INFINITI retailer is always available to assist you with all your automobile sales and service needs.

However, if there is something that your INFINITI retailer cannot assist you with or you would like to provide INFINITI directly with comments or questions, please contact our (INFINITI’s) Consumer Affairs Department using our toll-free number:

For U.S. customers 1-800-662-6200

For Canadian customers 1-800-361-4792

The Consumer Affairs Department will ask for the following information:

– Your name, address, and telephone number
– Vehicle identification number (on dash panel)
– Date of purchase
– Current odometer reading
– Your INFINITI retailer’s name
– Your comments or questions

OR

You can write to INFINITI with the information on the left at:

For U.S. customers
INFINITI Division
Nissan North America, Inc.
Consumer Affairs Department
P.O. Box 685003
Franklin, TN 37068-5003

For Canadian customers
INFINITI Division
Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario L4W 4Z5

We appreciate your interest in INFINITI and thank you for buying a quality INFINITI vehicle.
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07/15/10—tbrooks ☺
WARNING

● Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.

● For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat with both feet on the floor and adjust the seat belt properly. See “PRECAUTIONS ON SEAT BELT USAGE” later in this section.

● Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.

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

CAUTION

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

1-2 Safety — Seats, seat belts and supplemental restraint system
FRONT SEATS
Front power seat adjustment

Operating tips:

- The power seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power seat switch for a long period of time when the engine is off. This will discharge the battery.

See “AUTOMATIC DRIVE POSITIONER” in the “3. Pre-driving checks and adjustments” section for the seat position memory function.

Forward and backward:

Moving the switch ① forward or backward will slide the seat forward or backward to the desired position.

Reclining:

Move the recline switch ② backward until the desired angle is obtained. To bring the seatback forward again, move the switch ② forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See “PRECAUTIONS ON SEAT BELT USAGE” later in this section.) Also, the seatback can be reclined to allow occupants to rest when the vehicle is parked.

Safety — Seats, seat belts and supplemental restraint system  1-3

01/11/10—pattie
**Seat lifter:**
Push the front or rear end of the switch up or down to adjust the angle of the front portion or height of the seat.

**Lumbar support (if so equipped):**
The lumbar support feature provides lower back support to the driver.
Push the front ① or back ② end of the switch to adjust the seatback lumbar area.

### HEAD RESTRAINTS

**WARNING**
Head restraints supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear end collisions. Adjust the head restraints properly, as specified in this section. Check the adjustment after someone else 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 restraints. This may increase the risk of serious injury or death in a collision.
The illustration shows the seating positions equipped with head restraints. The head restraints are adjustable.

▲ Indicates the seating position is equipped with a head restraint.

**Components**
1. Head restraint
2. Adjustment notches
3. Lock knob
4. Stalk

**Adjustment**
Adjust the head restraint so the center is level with the center of your ears.
To raise the head restraint, pull it up. To lower, push and hold the lock knob and push the head restraint down.

Removal

Use the following procedure to remove the adjustable head restraints.

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.

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 notches 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.

Front-seat Active Head Restraints

The Active Head Restraint moves forward utilizing the force that the seatback receives from the occupant in a rear-end collision. The movement of the head restraint helps support the occupant's head by reducing its backward movement and helping absorb some of the forces that may lead to whiplash-type injuries.

Active Head Restraints are effective for collisions at low to medium speeds in which it is said that whiplash-type injury occurs most.

Active Head Restraints operate only in certain rear-end collisions. After the collision, the head restraints return to their original positions.

Adjust the Active Head Restraints properly as described earlier in this section.

ADJUSTABLE HEADRESTS

**WARNING**

The adjustable headrests supplement the other vehicle safety systems. They may provide additional protection against injury in certain rear-end collisions. Adjust the headrest properly, as specified in this section. Check the adjustment after someone else uses the seat. Do not attach anything to the headrest stalks or remove the headrest. Do not use the seat if the headrest has been removed. If the headrest was removed, install and properly adjust the headrest before an occupant uses the seating position. Failure to follow these instructions can reduce the effectiveness of the headrests. This may increase the risk of serious injury or death in a collision.
The illustration shows the seating positions equipped with adjustable headrests.

- Indicates the seating position is equipped with an adjustable headrest.

Components
1. Adjustable headrest
2. Adjustment notches
3. Lock knob
4. Stalks

Adjustment
Adjust the headrest so the center is level with the center of your ears.
To raise the headrest, pull it up.

To lower, push and hold the lock knob and push the headrest down.

**Removal**

Use the following procedure to remove the adjustable headrests.

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

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

ARMREST

Rear armrest
Pull the armrest forward until it is horizontal.

Trunk pass-through
The rear center seatback can be folded to allow trunk access from inside of the vehicle.
To access the trunk, pull down the rear center armrest and pull out the trunk pass-through lid 1.
To lock the lid, use the mechanical key and turn it to the LOCK position 2. To unlock, turn the mechanical key to the UNLOCK position 3. For the mechanical key usage, see “KEYS” in the “3. Pre-driving checks and adjustments” section.
Make sure that the mechanical key is removed from the trunk pass-through lid key cylinder before opening or closing the lid. Otherwise the lid and the rear armrest may be damaged.
SEAT BELTS

PRECAUTIONS ON SEAT BELT USAGE

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

Most U.S. states and Canadian provinces or territories specify that seat belts be worn at all times when a vehicle is being driven.
WARNING

● 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.

● The seat belt should be properly adjusted to a snug fit. Failure to do so may reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.

● Always route the shoulder belt over your shoulder and across your chest. Never run the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.

● Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.

● Be sure the seat belt tongue is securely fastened to the proper buckle.

● Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.

● Do not allow more than one person to use the same seat belt.

● Never carry more people in the vehicle than there are seat belts.

● If the seat belt warning light glows continuously while the ignition is turned ON with all doors closed and all seat belts fastened, it may indicate a malfunction in the system. Have the system checked by an INFINITI retailer.

● No changes should be made to the seat belt system. For example, do not modify the seat belt, add material or install devices that may change the seat belt routing or tension. Doing so may affect the operation of the seat belt system. Modifying or tampering with the seat belt system may result in serious personal injury.

● Once a seat belt pretensioner has activated, it cannot be reused and must be replaced together with the retractor. See an INFINITI retailer.

● Removal and installation of the pretensioner seat belt system components should be done by an INFINITI retailer.

● All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by an INFINITI retailer. INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly.

Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.

● All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer’s inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.
PREGNANT WOMEN

INFINITI 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, and 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

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

PRE-CRASH SEAT BELTS WITH COMFORT FUNCTION (front seats) (if so equipped)

The pre-crash seat belt tightens the seat belt with a motor to help restrain front seat occupants. This helps reduce the risk of injury in a collision.

The motor retracts the seat belt under the following emergency conditions:

- During emergency braking
- During sudden steering maneuvers
- Activation of the Intelligent Brake Assist (IBA) system. (See “INTELLIGENT BRAKE ASSIST (IBA) SYSTEM” in the “5. Starting and driving” section.)

The pre-crash seat belt will not be active when:

- the seat belt is not fastened
- the vehicle speed is under 10 MPH (15 km/h) during emergency braking
- the vehicle speed is under 16 MPH (30 km/h) during sudden steering maneuvers.

The pre-crash seat belt will not be active when the brake pedal is not depressed except when sudden steering maneuvers occur and the Intelligent Brake Assist (IBA) system activates.

The motor also retracts the seat belt when the seat belt is fastened or unfastened. When the seat belt is fastened, the motor tightens the seat belt for a snug fit. When the seat belt is unfastened, the motor retracts the seat belt. If the seat belt is not fully retracted, the motor retracts the seat belt when the door is opened.

Always wear your seat belt correctly and sit upright and well back.

If the motor cannot retract the seat belt when the seat belt is fastened or unfastened, it may
indicate the pre-crash seat belt system has a malfunction. Have your INFINITI retailer check and repair the system.

When the seat belt is retracted repeatedly in a short period of time, the motor may not be able to retract the seat belt. After 30 seconds, the motor reactivates and retracts the seat belt. If the seat belt still cannot be retracted by the motor, the pre-crash seat belt system has a malfunction. Have your INFINITI retailer check and repair the system.

THREE-POINT TYPE SEAT BELT

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

Fastening the seat belts

1. Adjust the seat. (See “SEATS” earlier in this section.)
2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.
   • The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the belt to move, and allows you some freedom of movement in the seat.
   • If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.
3. Position the lap belt portion low and snug on the hips as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

The three-point type seat belts have two modes of operation:
   • Emergency Locking Retractor (ELR)
   • Automatic Locking Retractor (ALR)

The Emergency Locking Retractor (ELR) mode allows the seat belt to extend and retract to allow the driver and passengers some freedom
of movement in the seat. The ELR locks the seat belt when the vehicle slows down rapidly or during impacts.

The Automatic Locking Retractor (ALR) mode (child restraint mode) locks the seat belt for child restraint installation.

When the ALR mode is activated the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. The seat belt returns to the ELR mode after the seat belt fully retracts. For additional information, see “CHILD RESTRAINTS” later in this section.

The ALR mode should be used only for child restraint installation. During normal seat belt use by an occupant, the ALR mode should not be activated. If it is activated, it may cause uncomfortable seat belt tension.

**WARNING**

When fastening the seat belts, be certain that seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.

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

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

If the retractor does not lock during this check or if you have any question about seat belt operation, see an INFINITI retailer.

Unfastening the seat belts

To unfasten the seat belt, push the button on the buckle. The seat belt automatically retracts.

Checking seat belt operation

Seat belt retractors are designed to lock seat belt movement by two separate methods:

- When the belt is pulled quickly from the retractor.
- When the vehicle slows down rapidly.
Selecting correct set of seat belts:
The center seat belt buckle is identified by the CENTER mark (A). The center seat belt tongue can be fastened only into the center seat belt buckle.

Shoulder belt height adjustment (front seats)
The shoulder belt anchor height should be adjusted to the position best for you. (See “PRECAUTIONS ON SEAT BELT USAGE” earlier in this section.)
To adjust, push the button (A), and then move the shoulder belt anchor to the desired position, so that the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

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

SEAT BELT EXTENDERS
If, because of body size or driving position, it is not possible to properly fit the lap-shoulder belt and fasten it, an extender that is compatible with the installed seat belts is available that can be purchased. The extender adds approximately 8 in (200 mm) of length and may be used for either the driver or front passenger seating position. See an INFINITI retailer for assistance with purchasing an extender if an extender is required.
**WARNING**

- Only INFINITI seat belt extenders, made by the same company which made the original equipment seat belts, should be used with the INFINITI seat belts.
- Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event of an accident.
- Never use seat belt extenders to install child restraints. If the child restraint is not secured properly, the child could be seriously injured in a collision or a sudden stop.

**SEAT BELT MAINTENANCE**

- To clean the seat belt webbing, apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. Then, wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.
- If dirt builds up in the shoulder belt guide of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- Periodically check to see that the seat belt and the metal components such as buckles, tongues, retractors, flexible wires and anchors work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

**CHILD SAFETY**

Children need adults to help protect them. They need to be properly restrained.

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

There are three basic types of child restraint systems:

- Rear-facing child restraint
- Forward-facing child restraint
- Booster seat

The proper restraint depends on the child’s size. Generally, infants up to about 1 year and less than 20 lbs (9 kg) should be placed in rear-facing child restraints. Forward-facing child restraints are available for children who outgrow rear-facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a forward-facing child restraint.
WARNING
Infants and children need special protection. The vehicle's seat belts may not fit them properly. The shoulder belt may come too close to the face or neck. The lap belt may not fit over their small hip bones. In an accident, an improperly fitting seat belt could cause serious or fatal injury. Always use appropriate child restraints.

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. See “CHILD RESTRAINTS” later in this section.

A child restraint may be secured in the vehicle by using either the LATCH (Lower Anchor and Tethers for CHildren) system or with the vehicle seat belt. See “CHILD RESTRAINTS” later in this section for more information.

INFINITI recommends that all pre-teens and children be restrained in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat.

This is especially important because your vehicle has a supplemental restraint system (Air bag system) for the front passenger. See “SUPPLEMENTAL RESTRAINT SYSTEM” later in this section.

INFANTS
Infants up to at least 1 year old should be placed in a rear-facing child restraint. INFINITI recommends that infants be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

SMALL CHILDREN
Children that are over one year old and weigh at least 20 lbs (9 kg) can be placed in a forward-facing child restraint. Refer to the manufacturer's instructions for minimum and maximum weight and height recommendations. INFINITI recommends that small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

LARGER CHILDREN
Children who are too large for child restraints should be seated and restrained by the seat belts which are provided. The seat belt may not fit properly if the child is less than 4 ft 9 in (142.5 cm) tall and weighs between 40 lbs (18 kg) and 80 lbs (36 kg). A booster seat should be used to obtain proper seat belt fit.

INFINITI recommends that a child be placed in a commercially available booster seat if the shoulder belt fits close to the face or neck or if the lap portion of the seat belt goes across the abdomen. 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. A booster seat can only be used in seating positions that have a three-point type seat belt. The booster seat should fit the vehicle seat and have a label certifying that it complies with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. Once the child has grown so the shoulder belt is no longer on or near the face and neck, use the shoulder belt without the booster seat.
**WARNING**

Never let a child stand or kneel on any seat and do not allow a child in the cargo area. The child could be seriously injured or killed in a sudden stop or collision.

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**PRECAUTIONS ON CHILD RESTRAINTS**

**WARNING**

- Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:
  - The child restraint must be used and installed properly. Always follow all of the child restraint manufacturer's instructions for installation and use.
  - Infants and children should never be held on anyone’s lap. Even the strongest adult cannot resist the forces of a collision.
  - Do not put a seat belt around both a child and another passenger.
  - INFINITI recommends that all child restraints be installed in the rear seat. Studies show that children are safer when properly restrained in the rear seat than in the front seat. If you must install a forward-facing child restraint in the front seat, see “FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS” later in this section.

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- Even with the INFINITI Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating air bag could seriously injure or kill a child. A rear-facing child restraint must only be used in the rear seat.

- Be sure to purchase a child restraint that will fit the child and vehicle. Some child restraints may not fit properly in your vehicle.

- Child restraint anchor points are designed to withstand loads from child restraints that are properly fitted.

- Never use the anchor points for adult seat belts or harnesses.

- A child restraint with a top tether strap should not be used in the front passenger seat.

- Keep seatbacks as upright as possible after fitting the child restraint.

- Infants and children should always be placed in an appropriate child restraint while in the vehicle.

- When the child restraint is not in use, keep it secured with the LATCH system or a seat belt. In a sudden stop or collision, loose objects can injure occupants or damage the vehicle.

- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.

- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.

- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Choose a child restraint that is designed for your child's height and weight. Always follow all recommended procedures.

- All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated. Canadian law requires the top tether strap on forward-facing child restraints be secured to the designated anchor point on the vehicle.
Lower Anchors and Tethers for Children System (LATCH)

Your vehicle is equipped with special anchor points that are used with the LATCH (Lower Anchors and Tethers for Children) system compatible child restraints. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint.

LATCH Lower Anchor

**WARNING**

Failure to follow the warnings and instructions for proper use and installation of child restraints could result in serious injury or death of a child or other passengers in a sudden stop or collision:

- Attach LATCH system compatible child restraints only at the locations shown in the illustration.
- Do not secure a child restraint in the center rear seating position using the LATCH lower anchors. The child restraint will not be secured properly.
- Inspect the lower anchors by inserting your fingers into the lower anchor area. Feel to make sure there are no obstructions over the anchors such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the lower anchors are obstructed.

LATCH lower anchor location

The LATCH 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 LATCH anchors.
Installing child restraint LATCH lower anchor attachments

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

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

Top tether anchor point locations

Anchor points are located on the rear parcel shelf.

The child restraint top tether strap must be used when installing child restraints with the LATCH lower anchor attachments or seat belts. (See ‘Installing top tether strap’ later in this section).

If you have any questions when installing a top tether strap child restraint on the rear seat, consult an INFINITI retailer for details.
REAR-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Follow these steps to install a rear-facing child restraint using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.
3. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your hand to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.

4. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint or try installing by using the vehicle seat belt (if applicable).

5. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 4.

Not all child restraints fit in all types of vehicles.
REAR-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

**WARNING**
The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See “Front passenger air bag and status light” later in this section.

Refer to all Warnings and Cautions in the “CHILD SAFETY” earlier in this section and “CHILD RESTRAINTS” earlier in this section before installing a child restraint.

Follow these steps to install a rear-facing child restraint using the vehicle seat belts in the rear seats:

1. Child restraints for infants must be used in the rear-facing direction and therefore must not be used in the front seat. Position the child restraint on the seat. Always follow the restraint manufacturer’s instructions.

2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer’s instructions for belt routing.
3. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to the Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.

4. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.

5. Remove any additional slack from the seat belt; press downward and rearward firmly in the center of the child restraint to compress the vehicle seat cushion and seatback while pulling up on the seat belt.
6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

7. Check to make sure that the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 1 through 6.

After the child restraint is removed and the seat belt fully retracted, the ALR mode (child restraint mode) is canceled.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING LATCH

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Follow these steps to install a forward-facing child restraint using the LATCH system:

1. Position the child restraint on the seat. Always follow the child restraint manufacturer’s instructions.

2. Secure the child restraint anchor attachments to the LATCH lower anchors. Check to make sure the LATCH attachment is properly attached to the lower anchors.

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 “Installing top tether strap” in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.
3. The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the headrest to obtain the correct child restraint fit. If the headrest is removed, store it in a secure place. **Be sure to reinstall the headrest when the child restraint is removed.** See “Adjustable headrest” in this section for headrest adjustment information.

   If the seating position does not have an adjustable headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.

4. For child restraints that are equipped with webbing-mounted attachments, remove any additional slack from the anchor attachments. Press downward and rearward firmly in the center of the child restraint with your knee to compress the vehicle seat cushion and seatback while tightening the webbing of the anchor attachments.

5. Tighten the tether strap according to the manufacturer’s instructions to remove any slack.

6. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the LATCH attachment path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the LATCH attachment holds the restraint in place. If the restraint is not secure, tighten the LATCH attachment as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.
7. Check to make sure the child restraint is properly secured prior to each use. If the child restraint is loose, repeat steps 1 through 6.

FORWARD-FACING CHILD RESTRAINT INSTALLATION USING THE SEAT BELTS

**WARNING**

- The three-point seat belt with Automatic Locking Retractor (ALR) must be used when installing a child restraint. Failure to use the ALR mode will result in the child restraint not being properly secured. The restraint could tip over or be loose and cause injury to a child in a sudden stop or collision. Also, it can change the operation of the front passenger air bag. See “Front passenger air bag and status light” later in this section.

- When installing a child restraint system in the rear center position, both the center seat belt connector tongue and buckle tongue must be secured. See “Center of rear seat” earlier in this section.

Refer to all Warnings and Cautions in the “Child safety” and “Child restraints” sections before installing a child restraint.

Follow these steps to install a forward-facing child restraint using the vehicle seat belt in the rear seats or in the front passenger seat:

1. If you must install a child restraint in the front seat, it should be placed in a forward-facing direction only. Move the seat to the rearmost position. Child restraints for infants must be used in the rear-facing direction and, therefore, must not be used in the front seat.

2. Position the child restraint on the seat. Always follow the child restraint manufacturer's instructions.

   The back of the child restraint should be secured against the vehicle seatback.

   If necessary, adjust or remove the head restraint or headrest to obtain the correct child restraint fit. If the head restraint or headrest is removed, store it in a secure place. Be sure to reinstall the head restraint or headrest when the child restraint is removed. See “HEAD RESTRAINTS” earlier in this section or “ADJUSTABLE HEADRESTS” earlier in this section for head restraint or headrest adjustment, removal and installation information.

   If the seating position does not have an adjustable head restraint or headrest and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.
3. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.

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 (rear seat installation only). See "INSTALLING TOP TETHER STRAP" later in this section. Do not install child restraints that require the use of a top tether strap in seating positions that do not have a top tether anchor.

4. Pull the shoulder belt until the belt is fully extended. At this time, the seat belt retractor is in the Automatic Locking Retractor (ALR) mode (child restraint mode). It reverts to Emergency Locking Retractor (ELR) mode when the seat belt is fully retracted.

5. Allow the seat belt to retract. Pull up on the shoulder belt to remove any slack in the belt.

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6. Remove any additional slack from the seat belt; press downward and rearward 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.

7. Tighten the tether strap according to the manufacturer’s instructions to remove any slack.

8. After attaching the child restraint, test it before you place the child in it. Push it from side to side while holding the child restraint near the seat belt path. The child restraint should not move more than 1 inch (25 mm), from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the seat belt as necessary, or put the restraint in another seat and test it again. You may need to try a different child restraint. Not all child restraints fit in all types of vehicles.

9. Check to make sure the child restraint is properly secured prior to each use. If the seat belt is not locked, repeat steps 2 through 8.
10. If the child restraint is installed in the front passenger seat, place the ignition switch in the ON position. The front passenger air bag status light should illuminate. If this light is not illuminated, see “Front passenger air bag and status light” in this section. Move the child restraint to another seating position. Have the system checked by an INFINITI retailer.

After the child restraint is removed and the seat belt is fully retracted, the ALR mode (child restraint mode) is canceled.

INSTALLING TOP TETHER STRAP

First, secure the child restraint with the LATCH lower anchors (rear outboard seat positions only) or the seat belt, as applicable.

1. Flip up the anchor cover from the anchor point which is located directly behind the child seat.

2. If necessary, raise or remove the headrest to position the top tether strap over the top of the seatback. If the headrest is removed, store it in a secure place. Be sure to reinstall the headrest when the child restraint is removed.

See “ADJUSTABLE HEADRESTS” earlier in this section for headrest adjustment, removal and installation information.

Position the top tether strap over the top of the seatback.

3. Secure the tether strap to the tether anchor point on the rear parcel shelf.

4. Refer to the appropriate child restraint installation procedure steps in this section before tightening the tether strap.

If you have any questions when installing a top tether strap, consult your INFINITI retailer for details.
**Booster Seats**

Precautions on booster seats

**WARNING**

If a booster seat and seat belt are not used properly, the risk of a child being injured in a sudden stop or collision greatly increases:

- Make sure the shoulder portion of the belt is away from the child’s face and neck and the lap portion of the belt does not cross the stomach.
- Make sure the shoulder belt is not behind the child or under the child’s arm.
- A booster seat must only be installed in a seating position that has a lap/shoulder belt.

Booster seats of various sizes are offered by several manufacturers. When selecting any booster seat, keep the following points in mind:

- Choose only a booster seat with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the booster seat in your vehicle to ensure it is compatible with the vehicle’s seat and seat belt system.
- Make sure the child’s head will be properly supported by the booster seat or vehicle seat. The seatback must be at or above the center of the child’s ears. For example, if a low back booster seat is chosen, the vehicle seatback must be at or above the center of the child’s ears. If the seatback is lower than the center of the child’s ears, a high back booster seat should be used.
- If the booster seat is compatible with your vehicle, place your child in the booster seat and check the various adjustments to be sure the booster seat is compatible with your child. Always follow all recommended procedures.
All U.S. states and Canadian provinces or territories require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.

The instructions in this section apply to booster seat installation in the rear seats or the front passenger seat.

Booster seat installation

**CAUTION**

Do not use the lap/shoulder belt Automatic Locking Retractor (ALR) mode when using a booster seat with the seat belts.

Refer to all Warnings and Cautions in the “Child safety”, “Child restraints” and “Booster seats” sections earlier in this section before installing a child restraint.

Follow these steps to install a booster seat in the rear seat or in the front passenger seat:

1. If you must install a booster seat in the front seat, move the seat to the rearmost position.
2. Position the booster seat on the seat. Only place it in a forward-facing direction. Always follow the booster seat manufacturer’s instructions.
3. The booster seat should be positioned on the vehicle seat so that it is stable.

   If necessary, adjust or remove the head restraint or headrest to obtain the correct booster seat fit. If the head restraint or headrest is removed, store it in a secure place. **Be sure to reinstall the head restraint or headrest when the booster seat is removed.** See “HEAD RESTRAINTS” earlier in this section or “ADJUSTABLE HEADRESTS” earlier in this section for head restraint or headrest adjustment, removal and installation information.

   If the seating position does not have an adjustable head restraint or headrest and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.

4. Position the lap portion of the seat belt low and snug on the child’s hips. Be sure to follow the booster seat manufacturer’s instructions for adjusting the seat belt routing.

5. Pull the shoulder belt portion of the seat belt toward the retractor to take up extra slack. Be sure the shoulder belt is positioned across the top, middle portion of the child’s shoulder. Be sure to follow the booster seat manufacturer’s instructions for adjusting the seat belt routing.

6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in “SEAT BELTS” earlier in this section.

7. If the booster seat is installed in the front passenger seat, push the ignition switch to the ON position. The front passenger air bag status light may or may not illuminate depending on the size of the child and the type of booster seat used. See “Front passenger air bag and status light” page 1-43.
SUPPLEMENTAL RESTRAINT SYSTEM

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the driver and passenger front impact supplemental air bags (INFINITI Advanced Air Bag System), front seat-mounted side-impact supplemental air bag system, roof-mounted curtain side-impact supplemental air bag and seat belt with pretensioners.

Supplemental front-impact air bag system: The INFINITI Advanced Air Bag System can help cushion the impact force to the head and chest of the driver and front passenger in certain frontal collisions.

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

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

These supplemental restraint systems are designed to supplement the crash protection provided by the driver and passenger seat belts and are not a substitute for them. Seat belts should always be correctly worn and the occupant seated a suitable distance away from the steering wheel, instrument panel and door finishers. (See “SEAT BELTS” earlier in this section for instructions and precautions on seat belt usage.)

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

After pushing the ignition switch to the ON position, the supplemental air bag warning light illuminates. The supplemental air bag warning light will turn off after about 7 seconds if the systems are operational.
The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.

The front passenger air bag will not inflate if the passenger air bag status light is lit or if the front passenger seat is unoccupied. See “Front passenger air bag and status light” later in this section.

The seat belts and the supplemental front air bags are most effective when you are sitting well back and upright in the seat with both feet on the floor. The front air bags inflate with great force. Even with the INFINITI advanced air bag system, if you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the supplemental front 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.
• The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The Advanced Air Bag System monitors the severity of a collision and seat belt usage then inflates the air bags. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.

• The front passenger seat is equipped with an occupant classification sensor (pattern sensor) that turns the front passenger air bag OFF under some conditions. This sensor is only used in this seat. Failure to be properly seated and wearing the seat belt can increase the risk or severity of injury in an accident. See “Front passenger air bag and status light” later in this section.

• Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk of injury if the front air bag inflates.
**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 front air bags, side air bags or curtain air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.

- Even with the INFINITI Advanced Air Bag System, never install a rear-facing child restraint in the front seat. An inflating front air bag could seriously injure or kill your child. See “CHILD RESTRAINTS” earlier in this section for details.
WARNING

Front seat-mounted side-impact supplemental air bags and roof-mounted curtain side-impact supplemental air bags:

- The front seat-mounted side-impact air bags and roof-mounted curtain air bags ordinarily will not inflate in the event of a frontal impact, rear impact, rollover or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.

- The seat belts, side air bags and curtain air bags are most effective when you are sitting well back and upright in the seat. The side air bag and curtain air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the window or lean against the door. Some examples of dangerous riding positions are shown in the previous illustrations.

- When sitting in the rear seat, do not hold onto the seatback of the front seat. If the supplemental side air bag inflates, you may be seriously injured. Be especially careful with children, who should always be properly restrained. Some examples of dangerous riding positions are shown in the illustrations.

- Do not use seat covers on the front seatbacks. They may interfere with supplemental side air bag inflation.
1. Crash zone sensor
2. Supplemental front air bag modules (INFINITI Advanced Air Bags)
3. Front seat-mounted side-impact supplemental air bags
4. Occupant classification sensor (pattern sensor)
5. Occupant classification system control unit
6. Roof-mounted curtain side-impact supplemental air bags
7. Roof-mounted curtain side-impact supplemental air bag inflators
8. Lap outer pretensioners (if so equipped)
9. Air bag Control Unit (ACU)
10. Satellite sensors
11. Seat belts with pretensioners

INFINITI ADVANCED AIR BAG SYSTEM (front seats)

This vehicle is equipped with the INFINITI Advanced Air Bag System for the driver and front passenger seats. This system is designed to meet certification requirements under U.S. regulations. It is also permitted in Canada. However, all of the information, cautions and warnings in this manual still apply and must be followed.

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

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The INFINITI Advanced Air Bag System has dual stage air bag inflators. The system monitors information from the crash zone sensor, the Air bag Control Unit (ACU), seat belt buckle switches and the occupant classification sensor (pattern sensor). Inflator operation is based on the severity of a collision and seat belt usage for the driver. For the front passenger, the occupant classification sensor is also monitored. Based on information from the sensors, only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. Additionally, the front passenger air bag may be automatically turned OFF under some conditions, depending on the information provided by the occupant classification sensor. If the front passenger air bag is OFF, the passenger air bag status light will be illuminated (if the seat is unoccupied, the light will not be illuminated, but the air bag will be off). (See “Front passenger air bag and status light” later in this section for further details.) One front air bag inflating does not indicate improper performance of the system.

If you have any questions about your air bag system, contact an INFINITI retailer. If you are considering modification of your vehicle due to a disability, you may also contact an INFINITI retailer. Contact information is contained in the front of this Owner’s Manual.

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

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

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

The front air bags deflate quickly after a collision.

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

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

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

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**Status light:**

The front passenger air bag status light \( \text{ON} \) is located above the ashtray. The light operates as follows:

- **Unoccupied passenger seat:** The \( \text{OFF} \) is OFF and the front passenger air bag is OFF and will not inflate in a crash.
- **Passenger seat occupied by a small adult, child or child restraint as outlined in this section:** The \( \text{ON} \) illuminates to indicate that the front passenger air bag is OFF and will not inflate in a crash.
- **Occupied passenger seat and the passenger meets the conditions outlined in this section:** The \( \text{ON} \) is OFF to indicate that the front passenger air bag is operational.

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**Front passenger air bag:**

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

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

The occupant classification sensor (pattern sensor) is in the front passenger seat cushion and is designed to detect an occupant and objects on the seat. For example, if a child is in the front passenger seat, the Advanced Air Bag System is designed to turn the passenger air bag OFF in accordance with the regulations. Also, if a child restraint of the type specified in the regulations is on the seat, the occupant classification sensor can detect it and cause the air bag to turn OFF.

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

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

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

Using the passenger air bag status light, you can monitor when the front passenger air bag is automatically turned OFF with the seat occupied. The light will not illuminate when the front passenger seat is unoccupied.

If an adult occupant is in the seat but the passenger air bag status light is illuminated (indicating that the air bag is OFF), it could be that the person is a small adult, or is not sitting on the seat properly.

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

If the passenger air bag status light will not illuminate even though you believe that the child restraint, the seat belts and the occupant are properly positioned, the system may be sensing an unoccupied seat (in which case the air bag is OFF). Your INFINITI retailer can check that the system is OFF by using a special tool. However, until you have confirmed with your retailer that your air bag is working properly, reposition the occupant or child restraint in a rear seat.

The INFINITI advanced air bag system and passenger air bag status light will take a few seconds to register a change in the passenger seat status. However, if the seat becomes unoccupied, the air bag status light will remain off.

If a malfunction occurs in the front passenger air bag system, the supplemental air bag warning light, located in the meter and gauges area will blink. Have the system checked by an INFINITI retailer.

Other supplemental front-impact air bag precautions

**WARNING**

- Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the front air bags inflate.
Do not place objects with sharp edges on the seat. Also, do not place heavy objects on the seat that will leave permanent impressions in the seat. Such objects can damage the seat or occupant classification sensor (pattern sensor). This can affect the operation of the air bag system and result in serious personal injury.

Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensor. This can also affect the operation of the air bag system and result in serious personal injury.

Immediately after inflation, several front 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 air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.

Do not make unauthorized changes to your vehicle’s electrical system, suspension system or front end structure. This could affect proper operation of the front air bag system.

Tampering with the air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.

Modifying or tampering with the front passenger seat may result in serious personal injury. For example, do not change the front seats by placing material on the seat cushion or by installing additional trim material, such as seat covers, on the seat that is not specifically designed to assure proper air bag operation. Additionally, do not stow any objects under the front passenger seat or the seat cushion and seatback. Such objects may interfere with the proper operation of the occupant classification sensor.

No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the front air bag system. Tampering with the seat belt system may result in serious personal injury.

Work on and around the front air bag system should be done by an INFINITI retailer. Installation of electrical equipment should also be done by an INFINITI retailer. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.

A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect the function of the supplemental air bag system.

* The SRS wiring harness connectors are yellow and orange for easy identification.

When selling your vehicle, we request that you inform the buyer about the front air bag system and guide the buyer to the appropriate sections in this Owner’s Manual.
FRONT SEAT-MOUNTED SIDE-IMPACT SUPPLEMENTAL AIR BAG AND ROOF-MOUNTED CURTAIN SIDE-IMPACT SUPPLEMENTAL AIR BAG SYSTEMS

The side air bags are located in the outside of the seatback of the front seats. The curtain air bags are located in the side roof rails. These systems are designed to meet voluntary guidelines to help reduce the risk of injury to out-of-position occupants. However, all of the information, cautions and warnings in this manual still apply and must be followed. The side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions on the side where the vehicle is impacted.

Vehicle damage (or lack of it) is not always an indication of proper supplemental side air bag and curtain side-impact air bag operation.

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

Side air bags, along with the use of seat belts, help to cushion the impact force on the chest and pelvis of the front occupants. Curtain air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bags and curtain air bags may cause abrasions or other injuries. Side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical from the door finishers and side roof rails. The side air bags and curtain air bags inflate quickly in order to help protect the occupants. Because of this, the force of the side air bags and curtain air bags inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bags and curtain air bags will deflate quickly after the collision is over.

The side air bags and curtain air bags operate only when the ignition switch is in the ON position.

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

WARNING

- Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if side air bag inflates.
Right after inflation, several side air bags and curtain 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 side air bag and curtain air bags. This is to prevent damage to or accidental inflation of the side air bag and curtain air bag systems.

Do not make unauthorized changes to your vehicle’s electrical system, suspension system or side panel. This could affect proper operation of the side air bag and curtain air bag systems.

Tampering with the air bag system may result in serious personal injury. For example, do not change the front seats by placing material near the seatback or by installing additional trim material, such as seat covers, around the side air bags.

Work around and on the side air bag and curtain air bag systems should be done by an INFINITI retailer. Installation of electrical equipment should also be done by an INFINITI retailer. The Supplemental Restraint System (SRS) wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side-impact air bag system.

Tampering with the air bag system may result in serious personal injury. For example, do not change the front seats by placing material near the seatback or by installing additional trim material, such as seat covers, around the side air bags.

SEAT BELTS WITH PRETENSIONERS (front seats)

WARNING

The pretensioners cannot be reused after activation. They must be replaced together with the retractor and buckle as a unit.

If the vehicle becomes involved in a collision but a pretensioner is not activated, be sure to have the pretensioner system checked and, if necessary, replaced by an INFINITI retailer.

No unauthorized changes should be made to any components or wiring of the pretensioners. This is to prevent damage to or accidental activation of the pretensioner system. Tampering with the pretensioner system may result in serious personal injury.

Work around and on the pretensioners should be done by an INFINITI retailer. Installation of electrical equipment should also be done by an INFINITI retailer. Unauthorized electrical test equipment and probing devices should not be used on the pretensioner system.

If you need to dispose of the pretensioner or scrap the vehicle, contact an INFINITI retailer. Correct pretensioner disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.

The pretensioner system may activate with the supplemental air bag system in certain types of collisions. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle...
becomes involved in certain types of collisions, helping to restrain front seat occupants.

The pretensioner is encased with the seat belt retractor. These seat belts are used the same way as conventional seat belts.

When a pretensioner seat belt activates, smoke is released and a loud noise may be heard. The smoke is not harmful, and it 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.

After pretensioner activation, load limiters allow the seat belt to release webbing (if necessary) to reduce forces against the chest.

The supplemental air bag warning light is used to indicate malfunctions in the pretensioner system. See “SUPPLEMENTAL AIR BAG WARNING LIGHT” later in this section. If the supplemental air bag warning light illuminates, have the system checked by a NISSAN dealer.

When selling your vehicle, we request that you inform the buyer about the seat belt pretensioners and guide the buyer to the appropriate sections in this Owner’s Manual.

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SUPPLEMENTAL AIR BAG WARNING LABELS

Warning labels about the supplemental front-impact air bag systems are placed in the vehicle as shown in the illustration.

SRS air bag

The warning labels are located on the surface of the sun visors.

SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying in the instrument panel, monitors the circuits of the supplemental front-impact air bag, front seat-mounted side-impact supplemental air bag, roof-mounted curtain side-impact supplemental air bag, and seat belt pretensioner systems. The monitored circuits include the Air bag Control Unit (ACU), satellite sensors, crash zone sensor, occupant classification system, front air bag modules, side air bag modules, curtain air bag modules, pretensioner and all related wiring.

When the ignition switch is in the ON position, the supplemental air bag warning light illuminates.
nates for about 7 seconds and then turns off. This means the system is operational.

If any of the following conditions occur, the front air bag, side air bag, curtain air bag and pretensioner systems need servicing:

- The supplemental air bag warning light remains on approximately 7 seconds after the ignition switch is pushed to the ON position.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not come on at all.

Under these conditions, the front air bag, side air bag, curtain air bag or pretensioner systems may not operate properly. They must be checked and repaired. Take your vehicle to the nearest INFINITI retailer.

**WARNING**

If the supplemental air bag warning light is on, it could mean that the front air bag, side air bag, curtain air bag and/or pretensioner systems will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a retailer as soon as possible.

**REPAIR AND REPLACEMENT PROCEDURE**

The front air bags, side air bags, curtain air bags and pretensioners are designed to activate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light will remain illuminated after inflation has occurred. Repair and replacement of these systems should be done only by an INFINITI retailer.

When maintenance work is required on the vehicle, the front air bags, side air bags, curtain air bags, pretensioners and related parts should be pointed out to the person conducting the maintenance. The ignition switch should always be in the LOCK position when working under the hood or inside the vehicle.

**WARNING**

- Once a front air bag, side air bag, or curtain air bag has inflated, the air bag module will not function again and must be replaced. Additionally, the activated pretensioner must also be replaced. The air bag module and pretensioner should be replaced by an INFINITI retailer. The air bag module and pretensioner system cannot be repaired.

- The front air bag, side air bag, curtain air bag and the pretensioner system should be inspected by an INFINITI retailer if there is any damage to the front end or side portion of the vehicle.

- If you need to dispose of the supplemental air bag or pretensioner or scrap the vehicle, contact an INFINITI retailer. Correct supplemental air bag and seat belt pretensioner system disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.
2 Instruments and controls

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*: The needle indicators in the speedometer, tachometer, engine coolant temperature gauge and fuel gauge may move slightly after the ignition switch is pushed to the LOCK position. This is not a malfunction.
SPEEDOMETER AND ODOMETER

Speedometer
The speedometer indicates vehicle speed in miles per hour (MPH) and kilometers per hour (km/h).

Odometer/twin trip odometer
The odometer ① and twin trip odometer ② are displayed on the dot matrix crystal display when the ignition switch is in the ON position. The odometer records the total distance the vehicle has been driven. The twin trip odometer records the distance of individual trips.

Changing the display:
Pushing the TRIP RESET switch ③ on the right of the combination meter panel changes the display as follows:
TRIP A → TRIP B → TRIP A

Resetting the trip odometer:
Pushing the TRIP RESET switch ③ for more than 1 second resets the trip odometer to zero.
Average fuel economy and distance to empty information is also available. (See “DOT MATRIX LIQUID CRYSTAL DISPLAY” later in this section and “HOW TO USE STATUS BUTTON” in the “4. Monitor, climate, audio, phone and voice recognition systems” section.)
TACHOMETER

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

The scale length and the red zone vary with the engine model.

**CAUTION**

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

ENGINE COOLANT TEMPERATURE GAUGE

The gauge indicates the engine coolant temperature.

The engine coolant temperature is within the normal range when the gauge needle points within the zone \( \textcircled{1} \) shown in the illustration.

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

**CAUTION**

If the gauge indicates the engine coolant temperature is near the hot (H) end of the normal range, reduce vehicle speed to decrease the temperature. If the gauge is over the normal range, stop the vehicle as soon as safely possible and let the engine idle. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See “IF YOUR VEHICLE OVERHEATS” in the “6. In case of emergency” section for immediate action required.
FUEL GAUGE

The gauge indicates the approximate fuel level in the tank.

The gauge may move slightly during braking, turning, acceleration, or going up or down hills.

The gauge needle returns to “0” (Empty) after the ignition switch is pushed to the OFF position.

Refill the fuel tank before the gauge registers “0” (Empty).

The low fuel warning appears on the dot matrix liquid crystal display when the fuel level is getting low. Refuel as soon as it is convenient, preferably before the gauge reaches “0”.

There will be a small reserve of fuel in the tank when the fuel gauge needle reaches “0”.

⚠️ CAUTION

- If the vehicle runs out of fuel, the malfunction indicator light (MIL) may come on. Refuel as soon as possible. After a few driving trips, the light should turn off. If the light remains on after a few driving trips, have the vehicle inspected by an INFINITI retailer.
- For additional information, see “Malfunction Indicator Light (MIL)” later in this section.
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*: if so equipped

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**Instruments and controls** 2-9
CHECKING BULBS

With all doors closed, apply the parking brake and push the ignition switch to the ON position without starting the engine. The following lights will come on (if so equipped):

- , BRAKE or , , , , , , AWD , 4WAS , CRUISE

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

- , ABS or , , , , , , , ECO , , ,
- , AT , CHECK , , , , ,

If any light does not come on, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system checked by an INFINITI retailer.

Some indicators and warnings are also displayed on the dot matrix crystal display between the speedometer and tachometer. (See “DOT MATRIX LIQUID CRYSTAL DISPLAY” later in this section.)

WARNING LIGHTS

**AWD** All-Wheel Drive (AWD) warning light (if so equipped)

The AWD warning light comes on when the ignition switch is pushed to ON. It turns off soon after the engine is started.

If the Intelligent AWD system malfunctions, or the diameter of the front and the rear wheels are different, the warning light will either remain illuminated or blink. (See “INTELLIGENT ALL-WHEEL DRIVE (AWD)” in the “5. Starting and driving” section.)

- **CAUTION**

  - If the warning light comes on while driving there may be a malfunction in the Intelligent AWD system. Reduce the vehicle speed and have your vehicle checked by an INFINITI retailer as soon as possible.
  - If the AWD warning light blinks on when you are driving:
    - **CAUTION**
      - blinks rapidly (about twice a second):
        Pull off the road in a safe area, and idle the engine. The driving mode will change to 2WD to prevent the AWD system from malfunctioning. If the warning light turns off, you can drive again.
    - blinks slowly (about once every 2 seconds):
      Pull off the road in a safe area, and idle the engine. Check that all tire sizes are the same, tire pressure is correct and tires are not worn.
    - If the warning light is still on after the above operations, have your vehicle checked by an INFINITI retailer as soon as possible.

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

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

If the ABS warning light illuminates while the engine is running, or while driving, it may indicate the ABS is not functioning properly. Have the system checked by an INFINITI retailer.

If an ABS malfunction occurs, the anti-lock function is turned off. The brake system then operates normally, but without anti-lock assistance. (See “BRAKE SYSTEM” in the “5. Starting and driving” section.)
Automatic transmission check warning light
When the ignition switch is pushed to the ON position, the light comes on for 2 seconds. If
the light comes on at any other time, it may indicate the transmission is not functioning
properly. Have your INFINITI retailer check and repair the transmission.

or Brake warning light
This light functions for both the parking brake and the foot brake systems.

Parking brake indicator:
When the ignition switch is in the ON position, the light comes on when the parking brake
is applied.

Low brake fluid warning light:
When the ignition switch is in the ON position, the light warns of a low brake fluid level. If the
light comes on while the engine is running with the parking brake not applied, stop the vehicle
and perform the following:

1. Check the brake fluid level. If brake fluid is
   necessary, add fluid and have the system
   checked by your INFINITI retailer. (See
   “BRAKE FLUID” in the “8. Maintenance
   and do-it-yourself” section.)
2. If the brake fluid level is correct, have the
   warning system checked by an INFINITI
   retailer.

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 re-
paired, by an INFINITI retailer promptly. (See
“Anti-lock Braking System (ABS) warning light”
earlier in this section.)

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

Pressing the brake pedal with the engine
stopped and/or low brake fluid level may
increase your stopping distance and braking
will require greater pedal effort as well as
pedal travel.

If the brake fluid level is below the minimum
or MIN mark on the brake fluid reservoir, do
not drive until the brake system has been
checked at an INFINITI retailer.

Blind Spot Warning (BSW)/Blind Spot
Intervention (BSI) system warning light (orange; if so
equipped)
When the ignition switch is pushed to the ON
position, the indicator light will first illuminate
in orange and turn green before turning off. This
indicates that the Blind Spot Warning (BSW)
and Blind Spot Intervention (BSI) systems are
operational.

If the light comes on in orange and remains on,
it may indicate that the BSW and BSI systems
are not functioning properly. Although the ve-
hicle is still driveable, have the systems
checked by an INFINITI retailer. See “BLIND
SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM in the “5. Starting and driving” section.

Charge warning light

If the light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the alternator belt. If the belt is loose, broken, missing or if the light remains on, see an INFINITI retailer immediately.

\textbf{CAUTION}

Do not continue driving if the alternator belt is loose, broken or missing.

Distance Control Assist (DCA) system warning light (orange; if so equipped)

This light comes on if there is a malfunction in the Distance Control Assist (DCA) system.

If the warning light illuminates, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and turn on the DCA system again.

If it is not possible to turn on the system or the warning light stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

4 Wheel Active Steer (4WAS) warning light (if so equipped)

If the light comes on while the engine is running, it may indicate that there is a malfunction with the 4 Wheel Active Steer (4WAS) portion of the steering system. Push the ignition switch to the OFF position and then to the ON position. If the light does not turn off after cycling the engine, have the system checked by an INFINITI retailer.

For further information about the 4 Wheel Active Steer system, see “4 WHEEL ACTIVE STEER (4WAS) SYSTEM” in the “5. Starting and driving” section.

If a malfunction occurs in the system, the 4 Wheel Active Steer (4WAS) function will cease but driving can be continued. However, the steering wheel is slightly turned even when driving on a straight road. Drive carefully to the nearest INFINITI retailer.

Engine oil pressure warning light

This light warns of low engine oil pressure. If the light flickers or comes on during normal driving, pull off the road in a safe area, stop the engine immediately and call an INFINITI retailer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. (See “ENGINE OIL” in the “8. Maintenance and do-it-yourself” section.)

\textbf{CAUTION}

Running the engine with the engine oil pressure warning light on could cause serious damage to the engine almost immediately. Such damage is not covered by warranty. Turn off the engine as soon as it is safe to do so.

Intelligent Cruise Control (ICC) system warning light (orange; if so equipped)

This light comes on if there is a malfunction in the Intelligent Cruise Control (ICC) system.

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and set the ICC system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is...
still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

Lane departure warning light (orange; if so equipped)

When the ignition switch is pushed to the ON position, the light will come on in orange, turn green, and then turn off. This indicates that the Lane Departure Warning (LDW) and Lane Departure Prevention (LDP) systems are operational. While the LDW and/or LDP system is on, the light will blink in orange and a warning chime will sound if the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers.

If the light comes on in orange and remains on, it may indicate that the LDW and LDP systems are not functioning properly. Have the systems checked by an INFINITI retailer.

See “LANE DEPARTURE WARNING (LDW) SYSTEM/LANE DEPARTURE PREVENTION (LDP) SYSTEM” in the “5. Starting and driving” section.

Low tire pressure warning light

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

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

After the ignition switch is pushed ON, this light illuminates for about 1 second and turns off. Low tire pressure warning:

If the vehicle is being driven with low tire pressure, the warning light will illuminate. A CHECK TIRE PRESSURE warning (if so equipped) also appears in the dot matrix crystal display. If you select tire pressure information in the display, the LOW PRESSURE warning message will be displayed. The tire pressure for each tire will also be displayed.

When the low tire pressure warning light illuminates, you should stop and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The CHECK TIRE PRESSURE warning (if so equipped) is active as long as the low tire pressure warning light remains illuminated.

For additional information, see “DOT MATRIX LIQUID CRYSTAL DISPLAY” later in this section, “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section and “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “6. In case of emergency” section.

TPMS malfunction:

If the TPMS is not functioning properly, the low tire pressure warning light will flash for approximately 1 minute when the ignition switch is pushed ON. The light will remain on after the 1 minute. Have the system checked by an INFINITI retailer. The CHECK TIRE PRESSURE warning (if so equipped) does not appear if the low tire pressure warning light illuminates to indicate a TPMS malfunction.

For additional information, see “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section.

WARNING

● If the light does not illuminate with the ignition switch pushed ON, have the vehicle checked by an INFINITI retailer as soon as possible.
● If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.

● When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after the 1 minute. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.

● Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.

CAUTION

● The TPMS is not a substitute for the regular tire pressure check. Be sure to check the tire pressure regularly.

● If the vehicle is being driven at speeds of less than 16 MPH (25 km/h), the TPMS may not operate correctly.

● Be sure to install the specified size of tires to the four wheels correctly.

Master warning light

When the ignition switch is in the ON position, the master warning light illuminates if any of the following are displayed on the dot matrix liquid crystal display:

● No key warning
● Low fuel warning
● Low washer fluid warning
● Parking brake release warning
● Door/trunk open warning
● Loose fuel cap warning (if so equipped)
● Check tire pressure warning (if so equipped)
● Intelligent key system warning

See “DOT MATRIX LIQUID CRYSTAL DISPLAY” later in this section.

Preview Function warning light (orange; if so equipped)

The light comes on if there is a malfunction in the Brake Assist (with Preview Function) system.

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, then resume driving.

If the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

Seat belt warning light and chime

The light and chime remind you to fasten seat belts. The light illuminates whenever the ignition switch is pushed to the ON position, and will remain illuminated until the driver’s seat belt is fastened. At the same time, the chime will sound for about 6 seconds unless the driver’s seat belt is securely fastened.

The seat belt warning light for the front passenger will illuminate if the seat belt is not fastened when the front passenger’s seat is occupied. For 7 seconds after the ignition switch is in the ON position, the system does not activate the warning light for the front passenger.
See “SEAT BELTS” in the “1. Safety — Seats, seat belts and supplemental restraint system” section for precautions on seat belt usage.

Supplemental air bag warning light

After pushing the ignition switch to the ON position, the supplemental air bag warning light will illuminate. The supplemental air bag warning light will turn off after about 7 seconds if the supplemental front air bag and supplemental side air bag, curtain side-impact air bag systems and/or pretensioner seat belt are operational.

If any of the following conditions occur, the supplemental front air bag, supplemental side air bag, supplemental curtain side-impact air bag and pretensioner seat belt needs servicing and your vehicle must be taken to your nearest INFINITI retailer.

● The supplemental air bag warning light remains on after approximately 7 seconds.

● The supplemental air bag warning light flashes intermittently.

● The supplemental air bag warning light does not come on at all.

Unless checked and repaired, the Supplemental Restraint Systems and/or the pretensioner seat belt may not function properly.

For additional information, see “SUPPLEMENTAL RESTRAINT SYSTEM” in the “1. Safety — Seats, seat belts and supplemental restraint system” section.

**WARNING**

If the supplemental air bag warning light is on, it could mean that the supplemental front air bag, supplemental side air bag, curtain side-impact air bag systems and/or pretensioner seat belt will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a retailer as soon as possible.

Vehicle Dynamic Control (VDC) warning light

The light will blink when the VDC system or the traction control system is operating, thus alerting the driver that the vehicle is nearing its traction limits. The road surface may be slippery.

When the vehicle dynamic control warning light illuminates when the vehicle dynamic control system is turned on, this light alerts the driver to the fact that the vehicle dynamic control system’s fail-safe mode is operating, for example the vehicle dynamic control, active trace control (if so equipped), Rise-up & Build-up function, Brake Force Distribution or hill start assist system may not be functioning properly. Have the system checked by an INFINITI retailer. If a malfunction occurs in the system, the vehicle dynamic control system function will be canceled but the vehicle is still driveable. For additional information, see “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” in the “5. Starting and driving” section of this manual.

**INDICATOR LIGHTS**

**Adaptive Front lighting System (AFS) off indicator light (if so equipped)**

When the ignition switch is pushed to the ON position, the Adaptive Front lighting System (AFS) off indicator light will illuminate. The light will turn off in about 1 second if the AFS is operational.

If the AFS off indicator light blinks, it may indicate the AFS is not functioning properly. Have the system checked by an INFINITI retailer.

See “Adaptive Front lighting System (AFS)” later in this section.
Automatic Transmission (AT) position indicator light

When the ignition switch is pushed to the ON position, the indicator shows the automatic selector position.

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

See “AUTOMATIC TRANSMISSION” in the “5. Starting and driving” section for further details.

Blind Spot Intervention (BSI) ON indicator light (green; if so equipped)

The light comes on in green when the Blind Spot Intervention (BSI) system is turned on. The light turns off when the system is turned off.

NOTE:

This light is common with the blind spot warning light (orange). (See “Blind Spot Warning (BSW)/Blind Spot Intervention (BSI) system warning light” earlier in this section).

For more details, see “BLIND SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM” in the “5. Starting and driving” section.

ECO drive indicator light

When the ignition switch is pushed to the ON position, the light will come on in orange, turn green, and then turn off.

When the drive mode select switch is turned to the ECO mode, the ECO drive indicator light will illuminate or change its color depending on the accelerator pedal operation to help assist the driver to drive economically. For more details, see “ECO MODE” in the “5. Starting and driving” section.

Front fog light indicator light

The front fog light indicator light illuminates when the front fog lights are on. (See “FOG LIGHT SWITCH” later in this section.)

Front passenger air bag status light

The front passenger air bag status light ( ) will be lit and the passenger front air bag will be OFF depending on how the front passenger seat is being used.

For front passenger air bag status light operation, see “INFINITI ADVANCED AIR BAG SYSTEM (front seats)” in the “1. Safety — Seats, seat belts and supplemental restraint system” section of this manual.

High beam indicator light

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

Intelligent Brake Assist (IBA) off indicator light (if so equipped)

The light illuminates when the Intelligent Brake Assist (IBA) off switch is pushed to OFF. This indicates that the Intelligent Brake Assist (IBA) system is not operating.

When the IBA off indicator light illuminates while the system is turned on (without the warning chime sound), this light indicates that the system control is temporarily unavailable.

When the IBA off indicator light illuminates with the warning chime sound while the IBA system is turned on, this light indicates that the system may not be functioning properly. Park the vehicle in a safe place. Check to see if the laser sensor is clean. Turn the engine off, then restart the engine.
If the IBA off indicator light illuminates after following the procedures above, it may indicate that the system or Active Trace Control (if so equipped) is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer. (See “INTELLIGENT BRAKE ASSIST (IBA) SYSTEM” in the “5. Starting and driving” section and “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” in the “5. Starting and driving” section.)

Lane Departure Prevention (LDP) ON indicator light (green; if so equipped)

The light comes on in green when the Lane Departure Prevention (LDP) system is turned on. The light turns off when the system is turned off.

NOTE:
This light is common with the lane departure warning light (orange). (See “Lane departure warning light” earlier in this section.)

For more details, see “LANE DEPARTURE WARNING (LDW) SYSTEM/LANE DEPARTURE PREVENTION (LDP) SYSTEM” in the “5. Starting and driving” section.

Malfunction Indicator Light (MIL)

If the malfunction indicator light comes on steady or blinks while the engine is running, it may indicate a potential emission control malfunction.

The malfunction indicator light may also come on steady if the fuel-filler cap is loose or missing, or if the vehicle runs out of fuel. Check to make sure the fuel-filler cap is installed and closed tightly, and that the vehicle has at least 3 US gallons (14 liters) of fuel in the fuel tank.

After a few driving trips, the light should turn off if no other potential emission control system malfunction exists.

If this indicator light remains on for 20 seconds and then blinks for 10 seconds when the engine is not running, it indicates that the vehicle is not ready for an emission control system inspection/maintenance test. (See “READINESS FOR INSPECTION/MAINTENANCE (I/M) TEST (US only)” in the “9. Technical and consumer information” section.)

Operation:

The malfunction indicator light will come on in one of two ways:

- Malfunction indicator light on steady — An emission control system malfunction has been detected. Check the fuel-filler cap if the LOOSE FUEL CAP warning (if so equipped) appears in the dot matrix crystal display. If the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by an INFINITI retailer. You do not need to have your vehicle towed to the retailer.

- Malfunction indicator light blinking — An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:
  a) Do not drive at speeds above 45 MPH (72 km/h).
  b) Avoid hard acceleration or deceleration.
  c) Avoid steep uphill grades.
  d) If possible, reduce the amount of cargo being hauled or towed.

Instruments and controls 2-17
The malfunction indicator light may stop blinking and remain on.
Have the vehicle inspected by an INFINITI retailer. You do not need to have your vehicle towed to the retailer.

**CAUTION**

Continued vehicle operation without having the emission control system checked and repaired as necessary could lead to poor driveability, reduced fuel economy, and possible damage to the emission control system.

Security indicator light

The light blinks when the ignition switch is in the ACC, OFF or LOCK position. This function indicates the security system equipped on the vehicle is operational.
If the security system is malfunctioning, this light will remain on while the ignition switch is in the ON position. For additional information, see “SECURITY SYSTEMS” later in this section.

Low beam indicator light (green)
The low beam indicator light illuminates when the front park lights, rear combination lights and license plate lights are on. The indicator light turns off when the \( \text{ACC} \) is turned off.

**Turn signal/hazard indicator lights**
The light flashes when the turn signal switch lever or hazard switch is turned on.

Vehicle Dynamic Control (VDC) off indicator light

The light comes on when the vehicle dynamic control off switch is pushed to OFF. This indicates that the vehicle dynamic control system and traction control system are not operating.

**AUDIBLE REMINDERS**

Key reminder chime

A chime will sound if the driver side door is opened while the ignition switch is pushed to the ACC position. Make sure the ignition switch is pushed to the OFF position, and take the Intelligent Key with you when leaving the vehicle.

Light reminder chime

A chime will sound when the driver side door is opened with the light switch in the \( \text{OFF} \) position and the ignition switch in the ACC, OFF or LOCK position.

Turn the light switch off when you leave the vehicle.
The chime will also sound for 2 seconds when the ignition switch is turned to the OFF position with the fog lights on while the headlight switch is in the AUTO position.

Parking brake reminder chime

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

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion. This scraping sound will first occur only when the brake pedal is depressed. After more wear of the brake pad, the sound will always be heard even if the brake pedal is not depressed. Have the brakes checked as soon as possible if the warning sound is heard.
The dot matrix liquid crystal display is located between the tachometer and the speedometer, and it displays the automatic transmission position indicator, the cruise control, the Intelligent Cruise Control (ICC) system (if so equipped), the Distance Assist (DCA) system (if so equipped) information, the Intelligent Key operation information and other warnings and information.

For details about the automatic transmission position indicator, see “INDICATOR LIGHTS” earlier in this section. For details about the cruise control, see “CRUISE CONTROL” in the “5. Starting and driving” section. For details about the ICC system, see “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” in the “5. Starting and driving” section. For details about the DCA system, see “DISTANCE CONTROL ASSIST (DCA) SYSTEM” in the “5. Starting and driving” section. For the details about the Intelligent Key system, see “INTELLIGENT KEY SYSTEM” in the “3. Pre-driving checks and adjustments” section.
2-20  Instruments and controls
INDICATORS FOR OPERATION

1. Engine start operation indicator
This indicator appears when the selector lever is in the P (Park) position.
This indicator means that the engine will start by pushing the ignition switch with the brake pedal depressed. You can start the engine directly in any position.

2. Steering lock release malfunction indicator
This indicator appears when the steering wheel cannot be released from the LOCK position.
If this indicator appears, push the push-button ignition switch while lightly turning the steering wheel right and left.

3. NO KEY warning
This warning appears in either of the following conditions.
No key inside the vehicle:
The warning appears when the door is closed with the Intelligent Key left outside the vehicle and the ignition switch in the ACC or ON position. Make sure that the Intelligent Key is inside the vehicle.

Unregistered Intelligent Key:
The warning appears when the ignition switch is pushed from the LOCK position and the Intelligent Key cannot be recognized by the system. You cannot start the engine with an unregistered key. Use the registered Intelligent Key.
See “INTELLIGENT KEY SYSTEM” in the “3. Pre-driving checks and adjustments” section for more details.

4. SHIFT “P” warning
This warning appears when the ignition switch is pushed to stop the engine with the selector lever in any position except the P (Park) position.
If this warning appears, move the selector lever to the P (Park) position or push the ignition switch to the ON position.
An inside warning chime will also sound. (See “INTELLIGENT KEY SYSTEM” in the “3. Pre-driving checks and adjustments” section.)

5. “PUSH” warning
This warning appears when the selector lever is moved to the P (Park) position with the ignition switch in the ACC position after the SHIFT “P” warning appears.

6. Intelligent Key battery discharge indicator
This indicator appears when the Intelligent Key battery is running out of power.
If this indicator appears, replace the battery with a new one. (See “INTELLIGENT KEY BATTERY REPLACEMENT” in the “8. Maintenance and do-it-yourself” section.)

7. Engine start operation for Intelligent Key system indicator
This indicator appears when the Intelligent Key battery is running out of power and when the Intelligent Key System and vehicle are not communicating normally.
If this indicator appears, touch the ignition switch with the Intelligent Key while depressing the brake pedal. (See “INTELLIGENT KEY BATTERY DISCHARGE” in the “5. Starting and driving” section.)
8. Parking brake release warning
This warning appears when the vehicle speed is above 4 MPH (7 km/h) and the parking brake is applied.

9. 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.

10. Low washer fluid warning
This warning appears when the washer tank fluid is at a low level. Add washer fluid as necessary. (See “WINDOW WASHER FLUID” in the “8. Maintenance and do-it-yourself” section.)

11. Door/trunk open warning (ignition switch is in the ON position)
This warning appears if any of the doors and/or the trunk lid are open or not closed securely. The vehicle icon indicates which door or the trunk lid is open on the display.

12. Intelligent Key system warning
This warning appears if there is a malfunction in the steering lock system or Intelligent Key system.

If this warning appears while the engine is stopped, the steering lock cannot be released or the engine cannot be started. If this warning appears while the engine is running, the vehicle can be driven. However, contact an INFINITI retailer for repair as soon as possible.

13. Loose fuel cap warning (if so equipped)
This warning appears when the fuel-filler cap is not tightened correctly after the vehicle has been refueled. (See “FUEL-FILLER CAP” in the “3. Pre-driving checks and adjustments” section.)

14. Check tire pressure warning (if so equipped)
This warning appears when the low tire pressure warning light in the meter illuminates and low tire pressure is detected. If this warning appears, stop the vehicle and adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label. (See “Low tire pressure warning light” earlier in this section and “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section.)

15. “TIMER” indicator
This indicator appears when the set “TIMER” indicator activates. You can set the time for up to 6 hours. (See “TRIP COMPUTER” later in this section.)

16. Low outside temperature warning
This warning appears if the outside temperature is below 37°F (3°C). The warning can be set not to be displayed. (See “TRIP COMPUTER” later in this section.)

17. Cruise indicator
Cruise main switch indicator:
The indicator is displayed when the cruise control main switch is pushed. When the main switch is pushed again, the indicator disappears. When the cruise control main switch indicator is displayed, the cruise control system is operational.

Cruise set switch indicator:
The indicator is displayed while the vehicle speed is controlled by the cruise control system. If the indicator blinks while the engine is running, it may indicate that the cruise control system is not functioning properly. Have the system checked by an INFINITI retailer.

See “CRUISE CONTROL” in the “5. Starting and driving” section for details.

18. Intelligent Cruise Control (ICC)
system MAIN switch indicator (if so equipped)
The indicator is displayed when the Intelligent Cruise Control (ICC) system main switch is pushed. When the main switch is pushed again,
the indicator disappears. While the main switch indicator is displayed, the ICC system is operational. (See “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” in the “5. Starting and driving” section.)

19. Distance Control Assist (DCA) system switch indicator (if so equipped)

The indicator is displayed when the Distance Control Assist (DCA) system switch is pushed on. When the switch is pushed again, the indicator disappears. While the indicator is displayed, the DCA system is operational. (See “DISTANCE CONTROL ASSIST (DCA) SYSTEM” in the “5. Starting and driving” section.)

20. INFINITI Drive Mode Selector indicator

When a driving mode is selected, the selected mode indicator is displayed for approximately 2 seconds.

- STANDARD
- SPORT
- ECO
- SNOW

(See “INFINITI DRIVE MODE SELECTOR” in the “5. Starting and driving” section.)

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INDICATORS FOR MAINTENANCE

1. Engine oil replacement indicator

This indicator appears when the set time comes for changing the engine oil. You can set or reset the distance for changing the engine oil. (See “TRIP COMPUTER” later in this section.)

2. Oil filter replacement indicator

This indicator appears when the set time comes for replacing the oil filter. You can set or reset the distance for replacing the oil filter. (See “TRIP COMPUTER” later in this section.)

3. Tire replacement indicator

This indicator appears when the set time comes for replacing tires. You can set or reset the distance for replacing tires. (See “TRIP COMPUTER” later in this section.)

4. “OTHER” indicator

This indicator appears when the set time comes for replacing items other than the engine oil, oil filter and tires. You can set or reset the distance for replacing the items. (See “TRIP COMPUTER” later in this section.)

More maintenance reminders are also available on the center display. (See “HOW TO USE INFO BUTTON” in the “4. Monitor, climate, audio, phone and voice recognition systems” section.)
Switches for the trip computer are located on the right side of the combination meter panel. To operate the trip computer, push the side or front of the switches as shown above.

- **A** switch
- **B** switch

When the ignition switch is pushed to the ON position, modes of the trip computer can be selected by pushing the **A** switch **B**.
Each time the switch A is pushed, the display will change as follows:

Current fuel consumption → Average fuel consumption and speed → Elapsed time and trip odometer → Distance to empty (dte) → Outside air temperature (ICY) → Setting → Warning check

1. Current fuel consumption
   The current fuel consumption mode shows the current fuel consumption.

2. Average fuel consumption (MPG or l (liter)/100 km) and speed (MPH or km/h)
   **Fuel consumption**:
   The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pushing the B switch for longer than 1 second. (The average speed is also reset at the same time.) The display is updated every 30 seconds. At about the first 1/3 mile (500 m) after a reset, the display shows “——”.

3. Elapsed time and trip odometer (mls or km)
   **Elapsed time**:
   The elapsed time mode shows the time since the last reset. The displayed time can be reset by pushing the B switch for longer than 1 second. (The trip odometer is also reset at the same time.)
   **Trip odometer**:
   The trip odometer mode shows the total distance the vehicle has been driven since the last reset. Resetting is done by pushing the B switch for longer than 1 second. (The elapsed time is also reset at the same time.)

4. Distance to empty (dte — mls or km)
   The distance to empty (dte) mode provides you with an estimation of the distance that can be driven before refueling. The dte is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.
   The display is updated every 30 seconds. The dte mode includes a low range warning feature. If the fuel level is low, the warning is displayed on the screen.
   When the fuel level drops even lower, the dte display will change to “——”.
   ● If the amount of fuel added is small, the display just before the ignition switch is pushed to 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.

5. Outside air temperature (ICY — °F or °C)
   The outside air temperature is displayed in °F or °C in the range of −22 to 131°F (−30 to 55°C).

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*Instruments and controls 2-25*
The outside air temperature mode includes a low temperature warning feature. If the outside air temperature is below 37°F (3°C), the warning 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.

6. Setting

Setting cannot be made while driving. A message "Setting can only be operated when stopped" is also displayed on the dot matrix crystal display.

The \( \text{switch A} \) and \( \text{switch B} \) are used in the setting mode to select and decide a menu.

**SKIP:**

Push the \( \text{switch A} \) to move to the warning check mode.

Push the \( \text{switch B} \) to select other menus.

---

**ALERT:**

There are 3 submenus under the alert menu.

- **BACK**
  Select this submenu to return to the top page of the setting mode.

- **TIMER**
  Select this submenu to specify when the "TIMER" indicator activates.

- **ICY**
  Select this submenu to display the low outside temperature warning.

**MAINTENANCE:**

There are 5 submenus under the maintenance menu.

- **BACK**
  Select this submenu to return to the top page of the setting mode.

- **OIL**
  Select this submenu to set or reset the distance for changing the engine oil.

- **FILTER**
  Select this submenu to set or reset the distance for replacing the oil filter.

- **TIRE**
  Select this submenu to set or reset the distance for replacing tires.

- **OTHER**
  Select this submenu and set or reset the distance for replacing items other than the engine oil, oil filter and tires.

**OPTIONS:**

There are 4 submenus under the display menu.

- **BACK**
  Select this submenu to return to the top page of the setting mode.

- **LANGUAGE**
  Select this submenu to choose English or French for display.

- **UNIT**
  Select this submenu to choose the unit from miles, MPG, °F or km, l/100km, °C.

- **EFFECTS**
  Select this menu to set the dial effects described below to on or off.
  - The indicator needles sweep in the meters when the engine is started.
7. Warning check

SKIP:
Push the \[ A \] switch to move to the warning check mode.
Push the \[ B \] switch to select other menus.

DETAIL:
This item is available only when a warning is displayed.
Select this menu to see the details of warnings.

Your vehicle has two types of security systems, as follows:

- Vehicle security system
- INFINITI Vehicle Immobilizer System

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

VEHICLE SECURITY SYSTEM

The vehicle security system provides visual and audio alarm signals if someone opens the doors, hood, or trunk lid when the system is armed. It is not, however, a motion detection type system that activates when a vehicle is moved or when a vibration occurs.

The system helps deter vehicle theft but cannot prevent it, nor can it prevent the theft of interior or exterior vehicle components in all situations. Always secure your vehicle even if parking for a brief period. Never leave your Intelligent Key(s) in the vehicle, and always lock it when unattended. Be aware of your surroundings, and park in secure, well-lit areas whenever possible.

Many devices offering additional protection, such as component locks, identification markers, and tracking systems, are available at auto supply stores and specialty shops. Your INFINITI retailer may also offer such equipment. Check with your insurance company to see if you may be eligible for discounts for various theft protection features.
How to arm the vehicle security system

1. Close all windows.

The system can be armed even if the windows are open.

2. Push the ignition switch to the OFF position.

3. Remove the Intelligent Key from the vehicle.

4. Close all doors, hood and trunk. Lock all doors. The doors can be locked with the Intelligent Key, door handle request switch, power door lock switch or mechanical key.

5. Confirm that the security indicator light comes on. The security indicator light stays on for about 30 seconds. The vehicle security system is now pre-armed. After about 30 seconds the vehicle security system automatically shifts into the armed phase. The security light begins to flash once every approximately 3 seconds. If, during this 30-second pre-arm time period, the door is unlocked, or the ignition switch is pushed to ACC or ON, the system will not arm.

Even when the driver and/or passengers are in the vehicle, the system will activate with all doors, hood, and trunk lid locked with the ignition switch in the LOCK position. When pushing the ignition switch to the ACC or ON position, the system will be released.

Vehicle security system activation

The vehicle security system will give the following alarm:

- The headlights blink and the horn sounds intermittently.
- The alarm automatically turns off after approximately 1 minute. However, the alarm reactivates if the vehicle is tampered with again.

The alarm is activated by:

- Unlocking the door or opening the trunk lid without using the button on the Intelligent Key, the door handle request switch or the mechanical key. (Even if the door is opened by releasing the door inside lock knob, the alarm will activate.)
- Opening the hood.

How to stop an activated alarm

The alarm will stop by unlocking a door by pushing the unlock button on the Intelligent Key, the door handle request switch or using the mechanical key. The alarm will not stop if the ignition switch is pushed to the ACC or ON position.

If the system does not operate as described above, have it checked by an INFINITI retailer.
INFINITI VEHICLE IMMOBILIZER SYSTEM

The INFINITI Vehicle Immobilizer System will not allow the engine to start without the use of the registered Intelligent Key. Never leave these keys in the vehicle.

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of this device.

Security indicator light

The security indicator light is located on the meter panel. It indicates the status of the INFINITI Vehicle Immobilizer System.

The light blinks after the ignition switch was in the LOCK, ACC or OFF position. This function indicates the security systems equipped on the vehicle are operational.

If the INFINITI Vehicle Immobilizer System is malfunctioning, this light will remain on while the ignition switch is in the ON position.

If the light still remains on and/or the engine will not start, see an INFINITI retailer for INFINITI Vehicle Immobilizer System service as soon as possible. Please bring all Intelligent Keys that you have when visiting an INFINITI retailer for service.
WARNING
In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm windshield with the defroster before you wash the windshield.

CAUTION

- Do not operate the washer continuously for more than 30 seconds.
- Do not operate the washer if the reservoir tank is empty.
- Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.
- Pre-mix washer fluid concentrates with water to the manufacturer’s recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.

The windshield wiper and washer operates when the ignition switch is in the ON position. Push the lever down to operate the wiper at the following speed:

1. AUTO — operates the rain-sensing auto wiper system. (See “RAIN-SENSING AUTO WIPER SYSTEM” later in this section.)
2. LO — continuous low speed operation
3. HI — continuous high speed operation
4. MIST — one sweep operation of the wiper

Pull the lever toward you 5 to operate the washer. Then the wiper will also operate several times.

Pulling up the wiper arm:
The wiper arm should be in the up position when replacing the wiper.

To pull up the wiper arm, push up ④ twice, the wiper operation stops in mid-operation. The wiper arm can be pulled up.

The selector lever should be in the P (Park) position.

To replace the wiper arm, place the wiper arm in the down position and then push the lever ④ up once.

CAUTION
Do not operate the windshield wiper while the wiper arm is pulled up. The wiper arm may be damaged.

Wiper drip wipe system:
The wiper will also operate once about 3 seconds after the washer and wiper are operated. This operation is to wipe washer fluid that has dripped on the windshield.
The rain-sensing auto wiper system can automatically turn on the wipers and adjust the wiper speed depending on the rainfall and the vehicle speed by using the rain sensor located on the upper part of the windshield.

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

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

- High — High sensitive operation
- Low — Low sensitive operation

To turn the rain-sensing auto wiper system off, push up the lever to the OFF position, or pull down the lever to the LO or HI position.

**CAUTION**
Do not touch the rain sensor and around it when the wiper switch is in the AUTO position and the ignition switch is in the ON position. The wipers may operate unexpectedly and cause to an injury or a wiper damage.

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

- Using genuine wiper blades is recommended for proper operation of the rain-sensing auto wiper system. (See “WINDSHIELD WIPER BLADES” in the “8. Maintenance and do-it-yourself” section for wiper blade replacement.)
To defog/defrost the rear window glass and outside mirrors, start the engine and push the switch on. The indicator light will come on. Push the switch again to turn the defroster off. It will automatically turn off in approximately 30 minutes.

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

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**HEADLIGHT AND TURN SIGNAL SWITCH**

**XENON HEADLIGHTS**

<table>
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<tr>
<th>WARNING</th>
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- When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at an INFINITI retailer.
- Xenon headlights provide considerably more light than conventional headlights. If they are not correctly aimed, they might temporarily blind an oncoming driver or the driver ahead of you and cause a serious accident. If headlights are not aimed correctly, immediately take your vehicle to an INFINITI retailer and have the headlights adjusted correctly.

When the xenon headlight is initially turned on, its brightness or color varies slightly. However, the color and brightness will soon stabilize.

- The life of xenon headlights will be shortened by frequent on-off operation. It is generally desirable not to turn off the headlights for short intervals (for example, when the vehicle stops at a traffic signal). Even when the daytime running lights are active (Canada only), the xenon headlights do not turn on. This way the life of the xenon headlights is not reduced.
- If the xenon headlight bulb is close to burning out, the brightness will drastically decrease, the light will start blinking, or the color of the light will become reddish. If one or more of the above signs appear, contact an INFINITI retailer.
HEADLIGHT SWITCH

Lighting

1. Turn the switch to the ➔ position:
The front park, side marker, tail and license plate lights will come on.

2. Turn the switch to the ⬜ position:
Headlights will come on and all the other lights remain on.

Autolight system
The autolight system allows the headlights to be set so they turn on and off automatically.
To set the autolight system:
1. Make sure the headlight switch is in the AUTO position 🔄.
2. Push the ignition switch to the ON position.
3. The autolight system automatically turns the headlights on and off.
To turn the autolight system off, turn the switch to the OFF, ➔ or ⬜ position.

The autolight system can turn on the headlights automatically when it is dark and turn off the headlights when it is light.
For US models: The headlights will also be turned on automatically at twilight or in rainy weather (when the windshield wiper is operated continuously).
If the ignition switch is pushed to the OFF position and one of the doors is opened and this condition is continued, the headlights remain on for 5 minutes.

Automatic headlights off delay:
You can keep the headlights on for up to 180 seconds after you push the ignition switch to OFF and open any door then close all the doors.
You can adjust the period of the automatic headlights off delay from 0 seconds (OFF) to 180 seconds. The factory default setting is 45 seconds.
For automatic headlights off delay setting, see “Light Off Delay” in the “4. Monitor, climate, audio, phone and voice recognition systems” section.
Be sure not to put anything on top of the photo sensor located on the top of the instrument panel. The photo sensor controls the autolight; if it is covered, the photo sensor reacts as if it is dark and the headlights will illuminate.

Headlight beam select

1. To select the low beam, put the lever in the neutral position as shown.
2. To select the high beam, push the lever forward while the switch is in the "" position. Pull it back to select the low beam.
3. Pulling the lever toward you will flash the headlight high beam even when the headlight switch is in the OFF position.

Battery saver system

A chime will sound when the driver side door is opened with the light switch in the ACC, OFF or LOCK position.

When the headlight switch is in the ACC or OFF position while the ignition switch is in the ON position, the lights will automatically turn off 5 minutes after the ignition switch has been pushed to the OFF position.

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

**CAUTION**

- When you turn on the headlight switch again after the lights automatically turn off, the lights will not turn off automatically. Be sure to turn the light switch to the OFF position when you leave the vehicle for extended periods of time, otherwise the battery will be discharged.
- Never leave the light switch on when the engine is not running for extended periods of time even if the headlights turn off automatically.
Daytime running light system
(Canada only)

The daytime running lights automatically illuminate when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the ON position. Turn the headlight switch to the position for full illumination when driving at night.

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

Adaptive Front lighting System (AFS)
(if so equipped)

The Adaptive Front lighting System (AFS) will automatically adjust the headlights (low beam) toward the turning direction to improve the driver's view. When the headlight switch is ON and the driver operates the steering wheel in a turn, the AFS system will be activated.

The AFS will operate:

- when the headlight switch is ON.
- when the selector lever is in any position other than P (Park) or R (Reverse).
- when the vehicle is driven at above 16 MPH (25 km/h) for the left-side headlight. Note that the right-side low beam headlight will swivel but the left side will not swivel when the vehicle is below 3 MPH (5 km/h) and the steering wheel is turned. The vehicle must attain a speed above 16 MPH (25 km/h) before AFS activates the left-side headlight.

To turn the AFS off, push the AFS switch. (The AFS OFF indicator light will illuminate.) Push the switch again to turn the system on again.

AFS will also adjust the headlight to a proper axis automatically, depending on the number of occupants in the vehicle, the load the vehicle is carrying and the road conditions.

If the AFS OFF indicator light blinks after the ignition switch has been pushed to the ON position, this may indicate that the AFS is not functioning properly. Have the system checked by an INFINITI retailer. When the engine is started, the headlights will vibrate to check the system condition. This is not a malfunction.
Instrument brightness control

The instrument brightness control switch can be operated when the ignition switch is in the ON position. When the switch is operated, the dot matrix liquid crystal display switches to the brightness adjustment mode.

Push the upper switch A to brighten the instrument panel lights. The bar 1 moves to the + side. When reaching the maximum brightness, “MAX” appears on the display 2.

Push the lower switch B to dim the instrument panel lights. The bar 1 moves to the – side. When reaching the minimum brightness, “MIN” appears on the display 3. However, “MIN” does not appear during the nighttime.

The dot matrix liquid crystal display returns to the normal display under the following conditions:

- when the instrument brightness control switch is not operated for more than 5 seconds.
- when the side or front of the switch or switch on the right side of the combination meter panel is pushed.
TURN SIGNAL SWITCH

1. Turn signal
Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

2. Lane change signal
To indicate a lane change, move the lever up or down to the point where lights begin flashing.

FOG LIGHT SWITCH

To turn the fog lights on, turn the headlight switch to the position, then turn the switch to the position. To turn them off, turn the switch to the OFF position.

The headlights must be on for the fog lights to operate.

When the headlight switch is in the AUTO position, turning the fog light switch to the position will turn on the headlights, fog lights and the other lights while the ignition switch is in the ON position or the engine is running.

HAZARD WARNING FLASHER SWITCH

Push the switch on to warn other drivers when you must stop or park under emergency conditions. All turn signal lights will flash.

WARNING
• If stopping for an emergency, be sure to move the vehicle well off the road.
• Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.
• Turn signals do not work when the hazard warning flasher lights are on.
HEATED STEERING WHEEL (if so equipped)

The flasher can be actuated with the ignition switch in any position.
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.

Some state laws may prohibit the use of the hazard warning flasher switch while driving.

The heated steering wheel system is designed to operate only when the surface temperature of the steering wheel is below 68°F (20°C).

Push the heated steering wheel switch to warm the steering wheel after the engine starts. The indicator light on the switch will illuminate.

If the surface temperature of the steering wheel is below 68°F (20°C), the system will heat the steering wheel and cycle off and on to maintain a temperature above 68°F (20°C). The indicator light will remain on as long as the system is on.

Push the switch again to turn the heated steering wheel system off manually. The indicator light will turn off.

**NOTE:**

If the surface temperature of the steering wheel is above 68°F (20°C) when the switch is turned on, the system will not heat the steering wheel. This is not a malfunction.
To sound the horn, push the center pad area of the steering wheel.

**WARNING**
Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

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

**CAUTION**
- The battery could run down if the seat heater is operated while the engine is not running.
- Do not use the seat heater for extended periods or when no one is using the seat.
- Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.
- Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.
- Any liquid spilled on the heated seat should be removed immediately with a dry cloth.
- When cleaning the seat, never use gasoline, thinner, or any similar materials.

If any abnormalities are found or the heated seat does not operate, turn the switch off and have the system checked by an INFINITI retailer.
The front seats are warmed by built-in heaters. The switches located on the center console can be operated independently of each other.

1. Start the engine.
2. Turn the control knob to the right and select the desired heat range.
   - For high heat, turn the knob to the right.
   - For low heat, turn the knob to the left.
   - The indicator light will illuminate when the heater is on.

3. To turn off the heater, return the knob to the OFF position. Make sure that the indicator light turns off.

The heater is controlled by a thermistor, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.

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

The climate controlled seat warms up or cools down the front seats by blowing warm or cool air from the surface of the seat. The switches located on the center console can be operated independently of each other.

1. Start the engine.
2. Turn the control knob to the heat side or to the cool side. The indicator light on the control knob will illuminate.
3. Adjust the temperature using the control knob.

CLIMATE CONTROLLED SEATS (if so equipped)
4. When the vehicle’s interior is warmed or cooled, and/or before you leave the vehicle, be sure to turn the control knob to the OFF position (center). The indicator light on the control knob goes off at the OFF position.

To check the air filter for the climate controlled seat, contact an INFINITI retailer.

**WARNING**

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

**CAUTION**

- The battery could run down if the climate controlled seat is operated while the engine is not running.
- Do not use the climate controlled seat for extended periods or when no one is using the seat.
- Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.
- Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the climate controlled seat.
- Any liquid spilled on the seat should be removed immediately with a dry cloth.
- The climate controlled seat has an air filter. Do not operate climate controlled seat without an air filter. This may result in damage to the system.
- When cleaning the seat, never use gasoline, thinner, or any similar materials.
- If any malfunctions are found or the climate controlled seat does not operate, turn the switch off and have the system checked by an INFINITI retailer.

**WARNING SYSTEMS SWITCH (if so equipped)**

The warning systems switch will turn on and off the Lane Departure Warning (LDW) system, the Blind Spot Warning (BSW) system and the Forward Collision Warning (FCW) system at the same time.

The FCW system will sound a warning chime and the vehicle ahead detection indicator light blinks to alert the driver if the vehicle is traveling close to the vehicle ahead. (See “FORWARD COLLISION WARNING (FCW) SYSTEM” in the “5. Starting and driving” section.)

The LDW system will sound a warning chime and blink the lane departure warning light (orange) to alert the driver if the vehicle is traveling close to either the left or the right of a...
traveling lane with detectable lane markers. (See “LANE DEPARTURE WARNING (LDW) SYSTEM/LANE DEPARTURE PREVENTION (LDP) SYSTEM” in the “5. Starting and driving” section.)

The Blind Spot Warning (BSW)/Blind Spot Intervention (BSI) indicator lights, located next to the outside mirrors, will illuminate if the radar sensors detect a vehicle in the detection zone. If the turn signal is activated in the direction of the detected vehicle, a chime sounds twice and the BSW/BSI indicator light will flash. (See “BLIND SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM” in the “5. Starting and driving” section.)

The warning systems switch is automatically turned on when the engine is started, and the warning systems ON indicator \(^{1}\) on the switch illuminates.

To cancel the warning systems, push the warning systems switch to turn off the system. The warning systems ON indicator will turn off.

NOTE:

If you continue to push the warning systems switch from off to on for over 4 seconds, a chime will sound. This will change the default status of the LDW, BSW and FCW systems to OFF so that these systems will not automatically turn on when the engine is started. If this procedure is repeated, the default status will return to ON.

The vehicle should be driven with the Intelligent Brake Assist (IBA) system on for most driving conditions.

The Intelligent Brake Assist (IBA) system will sound a warning chime and the vehicle ahead detection indicator light blinks to alert the driver when the vehicle is traveling too close to the vehicle ahead. The system will also apply the brake control if necessary.

To turn off the system, push the IBA OFF switch. The \(\text{IBA OFF}\) indicator will illuminate.

The IBA system will remain in the last ON or OFF state it was left in until it is manually changed by pushing the IBA OFF switch.
See “INTELLIGENT BRAKE ASSIST (IBA) SYSTEM” in the “5. Starting and driving” section.

The vehicle should be driven with the Vehicle Dynamic Control (VDC) system on for most driving conditions.

If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the VDC system, push the VDC OFF switch. The \( \text{①} \) indicator will illuminate.

Push the VDC OFF switch again or restart the engine to turn on the system. (See “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” in the “5. Starting and driving” section.)

If the power supply is disconnected, the clock will not indicate the correct time. Readjust the time.

**ADJUSTING THE TIME**

1. To set the clock forward, push the button \( \text{①} \).
2. To set the clock backward, push the button \( \text{②} \).
3. To move forward or backward faster, push and hold the button more than 5 seconds.

For details about display clock adjustment (if so equipped), see “HOW TO USE SETTING BUTTON” in the “4. Monitor, climate, audio, phone and voice recognition systems” section.
POWER OUTLET

The power outlet is located in the center console.

**CAUTION**

- The outlet and plug may be hot during or immediately after use.
- Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.
- Use power outlet with the engine running to avoid discharging the vehicle battery.
- Avoid using power outlet when the air conditioner, headlights or rear window defroster is on.

- This power outlet is not designed for use with a cigarette lighter unit.
- Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may blow.
- Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.
- When not in use, be sure to close the cap. Do not allow water to contact the outlet.

FRONT

To open the ashtray lid, push the lid down and release it ➊.

To empty the ashtray, pull out ➋.

The cigarette lighter operates when the ignition switch is in the ON position.

Push the lighter in all the way ➌, then release it. When the lighter is heated, it will spring out. Return the lighter to its original position after use.

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CAUTION

- The cigarette lighter socket is a power source for the cigarette lighter element only. The use of the cigarette lighter socket as a power source for any other accessory is not recommended.
- Do not use any other power outlet for an accessory lighter.

CUP HOLDERS

CAUTION

- Avoid abrupt starting and braking when the cup holder is being used to prevent spilling the drink. If the liquid is hot, it can scald you or your passenger.
- Use only soft cups in the cup holder. Hard objects can injure you in an accident.

REAR

To open the ashtray lid, pull ①.
To empty the ashtray, pull ②.
To open the cup holder, push the lid \( \textcircled{1} \).
To remove the inner tray for cleaning, pull it up as illustrated \( \textcircled{2} \).

Open the lid of the rear center armrest to use the cup holder.

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**WARNING**
Keep the sunglasses holder closed while driving to prevent an accident.

To open the sunglasses holder, push \( \textcircled{1} \).

**CAUTION**
- Do not use for anything other than glasses.
- Do not leave glasses in the sunglasses holder while parking in direct sunlight. The heat may damage the glasses.
**WARNING**

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

To open the glove box, pull the handle ①.
To close, push the lid in until the lock latches.
To lock ②/unlock ③ the glove box, use the mechanical key. For the mechanical key usage, see “KEYS” in the “3. Pre-driving checks and adjustments” section.

**CONSOLE BOX**

To open the console box, push up the knob ④ and pull up the lid.
To close, push the lid down until latched.

**Type A**

**Type B**
CARD HOLDER
The card holder is located on or behind the driver's or passenger's sun visor.
To use the card holder, slide the card in the card holder.

REAR POCKET
To open the rear pocket, push the ① button.

COAT HOOKS
The coat hooks are equipped beside the rear personal lights.

CAUTION
Do not place items which are more than 2 lb (1 kg) on the hook.
TRUNK HOOKS

**WARNING**
- Always make sure that the cargo is properly secured. Use the suitable ropes and hooks.
- Unsecured cargo can become dangerous in an accident or sudden stop.

**CAUTION**
Do not apply a total load of more than 22 lb (10 kg) to a single hook.

POWER WINDOWS

**WARNING**
- Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in the window. Unattended children could become involved in serious accidents.

The power windows operate when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is pushed to the OFF position. If the driver's or front passenger's door is opened during this period of about 45 seconds, power to the windows is canceled.

Main power window switch (driver's side)
1. Driver side window
2. Front passenger side window
3. Rear left passenger side window
4. Rear right passenger side window
5. Window lock button

To open or close the window, push down A or pull up B the switch and hold it. The main switch (driver side switches) will open or close all the windows.

*Instruments and controls 2-49*
Locking passengers' windows

When the lock button is pushed in, only the driver side window can be opened or closed. Push it in again to cancel.

Passenger side power window switch

The passenger side switch will open or close only the corresponding window. To open or close the window, push down or pull up the switch and hold it.

Automatic operation

To fully open or close the window, completely push down or pull up the switch and release it; it need not be held. The window will automatically open or close all the way. To stop the window, just push or lift the switch in the opposite direction.

A light push or pull on the switch will cause the window to open or close until the switch is released.
Auto reverse function

**WARNING**
There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the window.

If the control unit detects something caught in the window as it is closing, the window will be immediately lowered.

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

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

If the windows do not close automatically

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

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

If the power window automatic function does not operate properly after performing the procedure above, have your vehicle checked by an INFINITI retailer.

**MOONROOF**

**WARNING**
- In an accident you could be thrown from the vehicle through an open moonroof. Always use seat belts and child restraints.
- Do not allow anyone to stand up or extend any portion of their body out of the moonroof opening while the vehicle is in motion or while the moonroof is closing.

**CAUTION**
- Remove water drops, snow, ice or sand from the moonroof before opening.
- Do not place any heavy object on the moonroof or surrounding area.

**AUTOMATIC MOONROOF**
The moonroof only operates when the ignition switch is in the ON position.

The automatic moonroof is operational for about 45 seconds, even if the ignition switch is pushed to the OFF position. If the driver’s door or the passenger’s door is opened during this period of about 45 seconds, power to the moonroof is canceled.
Sunshade

The sunshade will open automatically when the moonroof is opened. However, it must be closed manually.

Tilting the moonroof

To tilt up, first close the moonroof, then push the switch to the tilt up position 1 and release it; it need not be held. To tilt down the moonroof, push the switch to the tilt down position 2.

Sliding the moonroof

To fully open or close the moonroof, push the switch to the open 2 or close 1 position and release it; it need not be held. The roof will automatically open or close all the way. To stop the roof, push the switch once more while it is opening or closing.

Auto reverse function

- **WARNING**

  There are some small distances immediately before the closed position which cannot be detected. Make sure that all passengers have their hands, etc., inside the vehicle before closing the moonroof.

If the control unit detects something caught in the moonroof when it is closing, the moonroof will be immediately opened.

The auto reverse function can be activated when the moonroof is closed by automatic operation when the ignition switch is in the ON position or for about 45 seconds after the ignition switch is pushed to the OFF position.

If the moonroof cannot be closed automatically when the auto reverse function activates due to a malfunction, push and hold the moonroof switch to the close position 1.

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

If the moonroof does not operate

If the moonroof does not operate properly, perform the following procedure to initialize the moonroof operation system.

1. If the moonroof is open, close it fully by repeatedly pushing the moonroof switch to the close position 1 to tilt the moonroof up.
2. Push and hold the switch to the close position 1.
3. Release the moonroof switch after the moonroof moves slightly up and down.
4. Push and hold the switch to the open position 2 to fully tilt the moonroof down.
5. Check if the moonroof switch operates normally.

If the moonroof does not operate properly after performing the procedure above, have your vehicle checked by an INFINITI retailer.
REAR SUNSHADE (if so equipped)

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• To avoid personal injury, keep your hands, fingers and head away from the sunshade arm, arm rail and sunshade inlet port.</td>
</tr>
<tr>
<td>• Do not allow children near the rear sunshade system. They could be injured.</td>
</tr>
<tr>
<td>• Do not place objects on or near the rear sunshade. This could cause improper operation or damage it.</td>
</tr>
<tr>
<td>• Do not pull or push the rear sunshade. This could cause improper operation or damage it.</td>
</tr>
</tbody>
</table>

The rear sunshade operates when the ignition switch is in the ON position.

The rear sunshade switches are located on the instrument panel.

To raise and lower the sunshade, push the switch.

The switch need not be held.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Do not place objects (such as newspapers, handkerchiefs, etc.) on the sunshade inlet port. Doing so may entangle these objects in the sunshade when it is extending or retracting, causing improper operation or damage to the sunshade.</td>
</tr>
<tr>
<td>• Do not push the sunshade arm with your hands, etc., as this may deform it. Improper operation or damage to the sunshade may result.</td>
</tr>
<tr>
<td>• Do not put any object into the sunshade inlet port as this may result in improper operation or damage the sunshade.</td>
</tr>
<tr>
<td>• Do not hang any object on the arm rail as this may result in improper operation or damage the sunshade.</td>
</tr>
<tr>
<td>• Do not forcefully pull the sunshade. Doing so may elongate the sunshade. Improper operation or damage to the sunshade may result.</td>
</tr>
</tbody>
</table>

Instruments and controls 2-53
For the welcome light function, the courtesy light (A) and the passenger cabin illumination will illuminate when you approach the vehicle with the Intelligent Key (within approximately 1 m (3.3 ft) of the antenna built inside the door handles) and the following conditions are met.

- All doors are closed and locked.
- The ignition switch is in the LOCK or OFF position.
- The selector lever is in the P (Park) position.
- The Intelligent Key is outside the vehicle.
- The courtesy light operates within a set duration.

The welcome light function will be deactivated automatically if it does not operate within a set duration to prevent battery discharge. (After starting the engine, the welcome light function will be activated again.) Note that the duration is set to 9 days. The function is set to enabled as the factory default setting.

The welcome light function can be disabled in the following procedure.

1. Push the ignition switch to the ON position.
2. Push the door handle request switch on the driver's side door handle for more than 5 seconds within 20 seconds after the ignition switch is pushed to the “ON” position.
3. A chime sounds when the setting is completed.

Perform the same procedure to activate the welcome light function again.

MAP LIGHTS

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

Rear

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

INTERIOR LIGHT CONTROL SWITCH

① ON switch

When the ON switch ① is pushed on, the map lights and rear personal lights will illuminate. When the switch is turned off, the lights will not illuminate, regardless of the condition.

② DOOR OFF switch

When the DOOR OFF switch ② is not pushed on, the map lights and rear personal lights will illuminate under the following conditions:

- ignition switch is switched to the OFF position
  - remain on for about 15 seconds.

- doors are unlocked by pushing the UNLOCK button on the Intelligent Key or door handle request switch with the ignition switch in the LOCK position
  - remain on for about 15 seconds.
- any door is opened and then closed with the ignition switch in the LOCK position
  - remain on for about 15 seconds.
- any door is opened
  - remain on while the door is opened. When the door is closed, the lights go off.

When the DOOR OFF switch ② is pushed on, the map and rear personal lights will not illuminate under the above condition. The map and rear personal lights can be turned on only with the ON switch ①.

The lights will also turn off after 30 minutes when the lights remain illuminated after the ignition switch has been pushed to the OFF or LOCK position to prevent the battery from becoming discharged.

Instruments and controls  2-55
When the auto interior illumination is set to the OFF position (see “VEHICLE INFORMATION AND SETTINGS” in the “4. Monitor, climate, audio, phone and voice recognition systems” section), the lights will illuminate under the following condition:

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

**CAUTION**

Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

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**VANITY MIRROR LIGHTS**

The light on the vanity mirror will turn on when the cover on the vanity mirror is opened.

When the cover is closed, the light will turn off.

The lights will also turn off after 30 minutes when the lights remain illuminated to prevent the battery from becoming discharged.

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**TRUNK LIGHT**

The light illuminates when the trunk lid is opened. When the trunk lid is closed, the light will turn off.

The light will also turn off after 30 minutes when the light remains illuminated after the ignition switch has been pushed to the OFF or LOCK position to prevent the battery from becoming discharged.
HomeLink® Universal Transceiver provides a convenient way to consolidate the functions of up to three individual hand-held transmitters into one built-in device.

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

Once HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (Example: new vehicle purchases). Upon sale of the vehicle, the programmed HomeLink® Universal Transceiver buttons should be erased for security purposes. For additional information, see “PROGRAMMING HomeLink®” later in this section.

**WARNING**
- Do not use HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982.) A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.
- During programming procedure, your garage door or security gate may open or close. Make sure that people and objects are clear of the garage door, gate, etc. that you are programming.
- Your vehicle’s engine should be turned off while programming HomeLink® Universal Transceiver.

**PROGRAMMING HOMELINK®**
To program your HomeLink® Transceiver to operate a garage door, gate, or entry door opener, home or office lighting, you need to be at the same location as the device. Note: Garage door openers (manufactured after 1996) have “rolling code protection”. To program a garage door opener equipped with “rolling code protection”; you will need to use a ladder to get up to the garage door opener motor to be able to access the “smart or learn” program button.
1. To begin, push and hold the 2 outer HomeLink® buttons (to clear the memory) until the indicator light A blinks (after 20 seconds). Release both buttons.

2. Position the end of the hand-held transmitter 1-3 inches away from the HomeLink® surface.

3. Using both hands, simultaneously push and hold both the HomeLink® button you want to program and the hand-held transmitter button. DO NOT release the buttons until step 4 has been completed.

4. Hold down both buttons until the indicator light on HomeLink® flashes, changing from a “slow blink” to a “rapid blink”. This could take up to 90 seconds. When the indicator light blinks rapidly, both buttons may be released. The rapidly flashing light indicates successful programming. To activate the garage door or other programmed device, push and hold the programmed HomeLink® button - releasing when the device begins to activate.

5. If the indicator light on HomeLink® blinks rapidly for two seconds and then turns solid, HomeLink® has picked up a “rolling code” garage door opener signal. You will need to proceed with the next steps to train HomeLink®, completing the programming may require a ladder and another person for convenience.

6. Push and release the program button located on the garage door opener's motor to activate the “training mode”. This button is usually located near the antenna wire that hangs down from the motor. If the wire originates from under a light lens, you will need to remove the lens to access the training button.

NOTE:
Once you have pushed and released the training button on the garage door opener's motor and the “training light” is lit, you have 30 seconds in which to perform step 7. For convenience, use the help of a second person to assist when performing this step.
7. Quickly (within 30 seconds of pushing and releasing the garage door opener training button) and firmly push and release the HomeLink® button you’ve just programmed. Push and release the HomeLink® button up to three times to complete the training.

8. Your HomeLink® button should now be programmed. To program the remaining HomeLink® buttons for additional door or gate openers, follow steps 2 through 8 only.

NOTE:
Do not repeat step 1 unless you want to “clear” all previously programmed HomeLink® buttons.

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

PROGRAMMING HOMELINK® FOR CANADIAN CUSTOMERS

Prior to 1992, D.O.C. regulations required hand-held transmitters to stop transmitting after 2 seconds. To program your hand-held transmitter to HomeLink®, continue to push and hold the HomeLink® button (note steps 2 through 4 under “Programming HomeLink®”) while you push and re-push (“cycle”) your hand-held transmitter every 2 seconds until the indicator light flashes rapidly (indicating successful programming).

NOTE:
If programming a garage door opener, etc., it is advised to unplug the device during the “cycling” process to prevent possible damage to the garage door opener components.

OPERATING THE HOMELINK® UNIVERSAL TRANSCEIVER

HomeLink® Universal Transceiver (once programmed) may now be used to activate the garage door, etc. To operate, simply push the appropriate programmed HomeLink® Universal Transceiver button. The red indicator light will illuminate while the signal is being transmitted.

PROGRAMMING TROUBLE-DIAGNOSIS

If HomeLink® does not quickly learn the hand-held transmitter information:
- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- push and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 2 to 5 in (50 to 127 mm) away from the HomeLink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position - keeping the indicator light in view at all times.

If you continue to have programming difficulties, please contact the INFINITI Consumer Affairs Department. The phone numbers are located in the Foreword of this Owner’s Manual.

CLEARING THE PROGRAMMED INFORMATION

Individual buttons cannot be cleared, however to clear all programming, push and hold the two outside buttons and release when the indicator light begins to flash (in approximately 20 seconds).

REPROGRAMMING A SINGLE HOMELINK® BUTTON

To reprogram a HomeLink® Universal Transceiver button, complete the following.
1. Push and hold the desired HomeLink® button. **Do not** release the button until step 4 has been completed.

2. When the indicator light begins to flash slowly (after 20 seconds), position the hand-held transmitter 2 to 5 in (50 to 127 mm) away from the HomeLink® surface.

3. Push and hold the hand-held transmitter button.

4. The HomeLink® indicator light will flash, first slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

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

---

**IF YOUR VEHICLE IS STOLEN**

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

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

**FCC Notice:**

This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of this device.
3 Pre-driving checks and adjustments

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KEYS

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see an INFINITI retailer for duplicates by using the key number. INFINITI does not record any key numbers so it is very important to keep track of your key number plate.

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

1. Intelligent Keys (2 sets)
2. Mechanical keys (inside the Keys) (2 sets)
3. Key number plate (1 set)

INTELLIGENT KEY

Your vehicle can only be driven with the Intelligent Keys which are registered to your vehicle's Intelligent Key system components and INFINITI Vehicle Immobilizer System components. As many as 4 Intelligent Keys can be registered and used with one vehicle. The new keys must be registered by an INFINITI retailer prior to use with the Intelligent Key system and INFINITI Vehicle Immobilizer System 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 INFINITI retailer.

It is possible that the Intelligent Key functions become canceled. Contact an INFINITI retailer.

CAUTION

● Be sure to carry the Intelligent Key with you when driving. The Intelligent Key is a precision device with a built-in transmitter. To avoid damaging it, please note the following.
   - The Intelligent Key is water resistant; however, wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.
   - Do not bend, drop or strike it against another object.
   - Do not place the Intelligent Key for an extended period in a place where temperatures exceed 140°F (60°C).
   - Do not change or modify the Intelligent Key.
   - Do not use a magnet key holder.

3-2 Pre-driving checks and adjustments
– Do not place the Intelligent Key near an electric appliance such as a television set or personal computer.
– 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, INFINITI 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 an INFINITI retailer.

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, glove box and trunk pass-through lid, if they are equipped with a key cylinder.

See “DOORS” later in this section and “TRUNK LID” later in this section, “STORAGE” in the “2. Instruments and controls” section and “SEATS” in the “1. Safety — Seats, seat belts and supplemental restraint system” section.

VALET HAND-OFF

When you have to leave a key with a valet, give them the Intelligent Key itself and keep the mechanical key with you to protect your belongings.

To prevent the glove box and the trunk from being opened during valet hand-off, follow the procedures below.

1. Push the trunk release power cancel switch to the CANCEL side.
2. Remove the mechanical key from the Intelligent Key.
3. Lock the glove box and the trunk pass-through with the mechanical key.
4. Hand the Intelligent Key to the valet, keeping the mechanical key in your pocket or bag for insertion into the Intelligent Key when you retrieve your vehicle.

See “TRUNK LID” later in this section, “STORAGE” in the “2. Instruments and controls” section and “SEATS” in the “1. Safety — Seats, seat belts and supplemental restraint system” section.

Pre-driving checks and adjustments 3-3
**WARNING**

- Always have the doors locked while driving. Along with the use of seat belts, this provides greater safety in the event of an accident by helping to prevent persons from being thrown from the vehicle. This also helps keep children and others from unintentionally opening the doors, and will help keep out intruders.
- Before opening any door, always look for and avoid oncoming traffic.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.

**LOCKING WITH MECHANICAL KEY**

The power door lock system allows you to lock or unlock all doors simultaneously using the mechanical key.

- Turning the driver's door key cylinder to the front of the vehicle ① will lock all doors.
- Turning the driver's door key cylinder once to the rear of the vehicle ② will unlock the driver's door. After returning the key to the neutral position ③, turning it to the rear again within 60 seconds will unlock all doors.

- You can switch the lock system to the mode that allows you to open all the doors when the key is turned once. (See “HOW TO USE SETTING BUTTON” in the “4. Monitor, climate, audio, phone and voice recognition systems” section.)

**OPENING AND CLOSING WINDOWS WITH THE MECHANICAL KEY**

The driver's door key operation also allows you to open and close the window that is equipped with the automatic open/close function. (See “POWER WINDOWS” in the “2. Instruments and controls” section.)

To open the window, turn the driver's door key cylinder to the rear of the vehicle for longer than **1 second**. The door is unlocked and the window keeps opening while turning the key.

This function can also be performed by pushing and holding the door UNLOCK button of the Intelligent Key. (See “REMOTE KEYLESS ENTRY SYSTEM” later in this section.)

To close the window, turn the driver's door key cylinder to the front of the vehicle for longer than **1 second**. The door is locked and the window keeps closing while turning the key.
LOCKING WITH INSIDE LOCK KNOB

To lock the door individually, move the inside lock knob to the lock position ① then close the door.

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

When locking the door without an Intelligent Key, be sure not to leave the Intelligent Key inside the vehicle.

LOCKING WITH POWER DOOR LOCK SWITCH

Operating the power door lock switch will lock or unlock all the doors. The switches are located on the driver’s and front passenger’s door armrests.

To lock the doors, push the power door lock switch to the lock position ① with the driver’s or front passenger’s door open, then close the door.

When locking the door this way, be certain not to leave the Intelligent Key inside the vehicle.

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

Lockout protection

When the power door lock switch is moved to the lock position and any door open, all doors will lock and unlock automatically. With the Intelligent Key left in the vehicle and any door open, all doors will unlock automatically and a chime will sound after the door is closed.

These functions help to prevent the Intelligent Key from being accidentally locked inside the vehicle.

AUTOMATIC DOOR LOCKS

- All doors lock automatically when the vehicle speed reaches 15 MPH (24 km/h).
- All doors unlock automatically when the ignition switch is placed in the OFF position.

The automatic unlock function can be deactivated or activated. To deactivate or activate the automatic door unlock system, perform the following procedure:

1. Close all doors.
2. Place the ignition switch in the ON position.
3. Within 20 seconds of performing Step 2, push and hold the power door lock switch to the ① position (UNLOCK) for more than 5 seconds.

Pre-driving checks and adjustments 3-5
4. When activated, the hazard indicator will flash twice. When deactivated, the hazard indicator will flash once.

5. The ignition switch must be placed in the OFF and ON position again between each setting change.

When the automatic door unlock system is deactivated, the doors do not unlock when the ignition switch is placed in the OFF position. To unlock the door manually, use the inside lock knob or the power door lock switch (driver’s or front passenger’s side).

CHILD SAFETY REAR DOOR LOCK

The child safety rear door lock helps prevent doors from being opened accidentally, especially when small children are in the vehicle.

When the levers are in the lock position ①, the rear doors can be opened only from the outside.

To disengage, move the levers to the unlock position ②.

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 FAA advises that the radio waves may affect aircraft navigation and communication systems. Do not operate the Intelligent Key while on an airplane. Make sure the buttons are not operated unintentionally when the unit is stored during a flight.

The Intelligent Key system can operate all the doors and the trunk lid using the remote controller function or pushing the request switch on the vehicle without taking the key out from a pocket or purse. The operating environment and/or conditions may affect the Intelligent Key system operation.

Be sure to read the following before using the Intelligent Key system.

CAUTION

● Be sure to carry the Intelligent Key with you when operating the vehicle.
Never leave the Intelligent Key in the vehicle when you leave the vehicle.

The Intelligent Key is always communicating with the vehicle as it receives radio waves. The Intelligent Key system transmits weak radio waves. Environmental conditions may interfere with the operation of the Intelligent Key system under the following operating conditions.

- When operating near a location where strong radio waves are transmitted, such as a TV tower, power station and broadcasting station.
- When in possession of wireless equipment, such as a cellular telephone, transceiver, and CB radio.
- When the Intelligent Key is in contact with or covered by metallic materials.
- When any type of radio wave remote control is used nearby.
- When the Intelligent Key is placed near an electric appliance such as a personal computer.
- When the vehicle is parked near a parking meter.

In such cases, correct the operating conditions before using the Intelligent Key function or use the mechanical key.

Although the life of the battery varies depending on the operating conditions, the battery's life is approximately 2 years. If the battery is discharged, replace it with a new one.

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

For information regarding replacement of a battery, see “INTELLIGENT KEY BATTERY REPLACEMENT” in the “B. Maintenance and do-it-yourself” section.

Because the steering wheel is locked electrically, unlocking the steering wheel with the ignition switch in the LOCK position is impossible when the vehicle battery is completely discharged. Pay special attention that the vehicle battery is not completely discharged.

As many as 4 Intelligent Keys can be registered and used with one vehicle. For information about the purchase and use of additional Intelligent Keys, contact an INFINITI retailer.

CAUTION

- Do not allow the Intelligent Key, which contains electrical components, to come into contact with water or salt water. This could affect the system function.
- Do not drop the Intelligent Key.
- Do not strike the Intelligent Key sharply against another object.
- Do not change or modify the Intelligent Key.
- Wetting may damage the Intelligent Key. If the Intelligent Key gets wet, immediately wipe until it is completely dry.
- Do not place the Intelligent Key for an extended period in an area where temperatures exceed 140°F (60°C).
- Do not attach the Intelligent Key with a key holder that contains a magnet.
- Do not place the Intelligent Key near equipment that produces a magnetic field, such as a TV, audio equipment and personal computers.
If an Intelligent Key is lost or stolen, INFINITI 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 an INFINITI retailer.

INTELLIGENT KEY OPERATING RANGE

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

When the Intelligent Key battery is discharged or strong radio waves are present near the operating location, the Intelligent Key system's operating range becomes narrower, and the Intelligent Key may not function properly.

The operating range is within 31.50 in (80 cm) from each request switch ①.

If the Intelligent Key is too close to the door glass, handle or rear bumper the request switches may not function.

When the Intelligent Key is within the operating range, it is possible for anyone who does not carry the Intelligent Key to push the request switch to lock/unlock the doors and open the trunk lid.
DOOR LOCKS/UNLOCKS PRECAUTION

- Do not push the door handle request switch with the Intelligent Key held in your hand as illustrated. The close distance to the door handle will cause the Intelligent Key system to have difficulty recognizing that the Intelligent Key is outside the vehicle.

- After locking with the door handle request switch, verify the doors are securely locked by testing them.

- To prevent the Intelligent Key from being left inside the vehicle or the trunk, make sure you carry the key with you and then lock the doors or the trunk.

- Do not pull the door handle before pushing the door handle request switch. The door will be unlocked but will not open. Release the door handle once and pull it again to open the door.

- The Intelligent Key system (opening/closing doors with the door handle request switch) can be set to remain inactive. (See “VEHICLE INFORMATION AND SETTINGS” in the “A. Monitor, climate, audio, phone and voice recognition systems” section.)

INTELLIGENT KEY OPERATION

You can lock or unlock the doors without taking the key out from your pocket or bag.
When you carry the Intelligent Key with you, you can lock or unlock all doors by pushing the door handle request switch (driver's or front passenger's) within the range of operation.

When you lock or unlock the doors or the trunk lid, the hazard indicator will flash and the horn (if so equipped) or the outside chime will sound as a confirmation. For details, see “Setting hazard indicator and horn mode” later in this section.

Locking doors and fuel-filler door
1. Push the ignition switch to the OFF position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors.*2

Unlocking doors and fuel-filler door
1. Push the door handle request switch (driver’s or front passenger’s) while carrying the Intelligent Key with you.*3
2. The hazard indicator flashes once and outside chime sounds once. The corresponding door and the fuel-filler door will unlock.

3. Push the door handle request switch again within 1 minute.
4. The hazard indicator flashes once and outside chime sounds once again. All the doors will unlock.

All doors and the fuel-filler door will be locked automatically unless one of the following operations is performed within 1 minute after pushing the request switch while the doors are locked.
- Opening any door
- Pushing the ignition switch

During this 1-minute time period, if the UNLOCK button on the Intelligent Key is pushed, all doors will be locked automatically after another 1 minute.
Opening trunk lid
1. Push the trunk open request switch for more than 1 second.
2. The trunk will unlatch. An outside chime will sound four times.
3. Raise the trunk lid to open the trunk.

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

When the trunk lid is closed with the Intelligent Key inside the trunk, the outside chime will sound and the trunk will open.

BATTERY SAVER SYSTEM
When all the following conditions are met for 60 minutes, the battery saver system will cut off the power supply to prevent battery discharge.
- The ignition switch is in the ACC position, and
- All doors are closed, and
- The selector lever is in the P (Park) position.

WARNING SIGNALS
To help prevent the vehicle from moving unexpectedly by erroneous operation of the Intelligent Key listed on the following chart or to help prevent the vehicle from being stolen, chime or beep sounds inside and outside the vehicle and a warning displays in the dot matrix liquid crystal display.

When a chime or beep sounds or the warning displays, be sure to check the vehicle and Intelligent Key.

See “TROUBLESHOOTING GUIDE” later in this section and “DOT MATRIX LIQUID CRYSTAL DISPLAY” in the “2. Instruments and controls” section.
## TROUBLESHOOTING GUIDE

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Possible cause</th>
<th>Action to take</th>
</tr>
</thead>
<tbody>
<tr>
<td>When pushing the ignition switch to stop the engine</td>
<td>The SHIFT P warning appears on the display and the inside warning chime sounds continuously.</td>
<td>Shift the selector lever to the P (Park) position.</td>
</tr>
<tr>
<td>When opening the driver’s door to get out of the vehicle</td>
<td>The inside warning chime sounds continuously.</td>
<td>Push the ignition switch to the OFF position.</td>
</tr>
<tr>
<td>When closing the door after getting out of the vehicle</td>
<td>The NO KEY warning appears on the display, the outside chime sounds 3 times and the inside warning chime sounds for a few seconds.</td>
<td>Push the ignition switch to the OFF position.</td>
</tr>
<tr>
<td>When closing the door with the inside lock knob turned to LOCK</td>
<td>The outside chime sounds for a few seconds and all the doors unlock.</td>
<td>Carry the Intelligent Key with you.</td>
</tr>
<tr>
<td>When pushing the request switch or LOCK button on the Intelligent Key to lock the door</td>
<td>The outside chime sounds for a few seconds.</td>
<td>Carry the Intelligent Key with you.</td>
</tr>
<tr>
<td>When closing the trunk lid</td>
<td>The outside chime sounds for approximately 10 seconds and the trunk lid opens.</td>
<td>Carry the Intelligent Key with you.</td>
</tr>
</tbody>
</table>

### 3-12 Pre-driving checks and adjustments
REMOTE KEYLESS ENTRY SYSTEM

WARNING
The Intelligent Key transmits radio waves when the buttons are pushed. The FAA advises that 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.

It is possible to lock/unlock all doors, fuel-filler door, activate the panic alarm and open the windows by pushing the buttons on the Intelligent Key from outside the vehicle.

Before locking the doors, make sure the Intelligent Key is not left in the vehicle.

The LOCK/UNLOCK button on the Intelligent Key can operate at a distance of approximately 33 ft (10 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

As many as 4 Intelligent Keys can be used with one vehicle. For information concerning the purchase and use of additional Intelligent Keys, contact an INFINITI retailer.

The lock and unlock buttons on the Intelligent Key will not operate when:

- the distance between the Intelligent Key and the vehicle is over 33 ft (10 m).
- the Intelligent Key battery is discharged.

After locking with the remote keyless entry function, pull the door handle to make sure the doors are securely locked.

The LOCK/UNLOCK operating range varies depending on the environment. To securely operate the lock and unlock buttons, approach the vehicle to about 3 ft (1 m) from the door.

1. LOCK button
2. UNLOCK button
3. TRUNK button
4. PANIC button

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

When you lock or unlock the doors or the trunk lid, the hazard indicator will flash and the horn (or the outside chime) will sound as a confirmation. For details, see “Setting hazard indicator and horn mode” later in this section.
Locking doors and fuel-filler door

1. Push the ignition switch to the OFF position and make sure you carry the Intelligent Key with you.*1
2. Close all the doors.*2
3. Push the LOCK button on the Intelligent Key.
4. All the doors and fuel-filler door will lock.
5. The hazard indicator flashes twice and the horn chirps once.

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

*2: Doors will not lock with the Intelligent Key while any door is open. Operate the door handles to confirm that the doors have been securely locked.

Unlocking doors and fuel-filler door

1. Push the UNLOCK button on the Intelligent Key once.
2. The hazard indicator flashes once. The driver's door and fuel-filler door will unlock.
3. Push the UNLOCK button on the Intelligent Key again within 1 minute.
4. The hazard indicator flashes once again. All the doors will unlock.

All doors will be locked automatically unless one of the following operations is performed within 1 minute after pushing the UNLOCK button on the Intelligent Key while the doors are locked. If during this 1-minute time period, the UNLOCK button on the Intelligent Key is pushed, all doors will be locked automatically after another 1 minute.

- Opening any door
- Pushing the ignition switch

Opening windows

The UNLOCK button operation also allows you to open the window that is equipped with the automatic open/close function. (See “POWER WINDOWS” in the “2. Instruments and controls” section).

To open the window, push the door UNLOCK button on the Intelligent Key for about 3 seconds after the door is unlocked.

To stop opening, release the UNLOCK button.

If the window open operation is stopped in mid-operation while pushing the UNLOCK button, release and push the UNLOCK button again until the window opens completely.

Window cannot be closed using the Intelligent Key.

The door window can also be operated by turning the mechanical key in a door lock. (See “DOORS” earlier in this section.)

Opening trunk lid

1. Push the TRUNK button on the Intelligent Key for more than 1 second.
2. The trunk will unlatch.
3. Raise the trunk lid to open the trunk.

Using panic alarm

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the PANIC button on the key for more than 1 second.
2. The theft warning alarm and headlights will stay on for 25 seconds.
3. The panic alarm stops when:
   - It has run for 25 seconds, or...
Any of the buttons on the Intelligent Key are pushed. (Note: Panic button should be pushed for more than 1 second.)

Setting hazard indicator and horn mode

This vehicle is set in hazard indicator and horn mode when you first receive the vehicle.

In hazard indicator and horn mode, when the LOCK button is pushed, the hazard indicator flashes twice and the horn chirps once. When the UNLOCK button is pushed, the hazard indicator flashes once.

If horns are not necessary, the system can be switched to the hazard indicator mode.

In hazard indicator mode, when the LOCK button is pushed, the hazard indicator flashes twice. When the UNLOCK button is pushed, neither the hazard indicator nor the horn operates.

### Hazard indicator and horn mode:

<table>
<thead>
<tr>
<th></th>
<th>DOOR LOCK</th>
<th>DOOR UNLOCK</th>
<th>TRUNK UNLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intelligent Key system (Using door handle or trunk request switch)</td>
<td>HAZARD - twice</td>
<td>HAZARD - once</td>
<td>HAZARD - none</td>
</tr>
<tr>
<td></td>
<td>OUTSIDE CHIME - twice</td>
<td>OUTSIDE CHIME - once</td>
<td>OUTSIDE CHIME - 4 times</td>
</tr>
<tr>
<td>Remote keyless entry system (Using button)</td>
<td>HAZARD - twice</td>
<td>HAZARD - once</td>
<td>HAZARD - none</td>
</tr>
<tr>
<td></td>
<td>HORN - once</td>
<td>HORN - none</td>
<td>HORN - none</td>
</tr>
</tbody>
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### Hazard indicator mode:

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<td>HAZARD - none</td>
<td>HAZARD - none</td>
</tr>
<tr>
<td></td>
<td>HORN - none</td>
<td>HORN - none</td>
<td>HORN - none</td>
</tr>
</tbody>
</table>

Pre-driving checks and adjustments 3-15
Switching procedure:

To switch the hazard indicator and horn (chime) operation, push the LOCK ① and UN-LOCK ② buttons on the Intelligent Key simultaneously for more than 2 seconds.

- When the hazard indicator mode is set, the hazard indicator flashes 3 times.
- When the hazard indicator and horn mode is set, the hazard indicator flashes once and the horn chirps once.

1. Pull the hood lock release handle ① located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever ② up at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood down to latch both the right and left locks. Push the hood down to lock the hood securely into place.

**WARNING**

- Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.
- If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.

3-16 Pre-driving checks and adjustments
WARNING

- Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “EXHAUST GAS (carbon monoxide)” in the “5. Starting and driving” section of this manual.
- Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the trunk closed, when not in use, and prevent children’s access to Intelligent Keys.

TRUNK LID RELEASE SWITCH

The trunk lid release switch \(^\text{A}\) is located on the instrument panel.

To open the trunk lid, push the release switch. To close, push the trunk lid down.

You can open the trunk lid with Intelligent Key. (See “INTELLIGENT KEY SYSTEM” page 3-6 or “REMOTE KEYLESS ENTRY SYSTEM” earlier in this section.)

TRUNK OPEN REQUEST SWITCH

The trunk lid can be opened by pushing the trunk open request switch \(^\text{A}\) when the Intelligent Key is within the operating range of the trunk lock/unlock function regardless of the inside lock knob position. (See “INTELLIGENT KEY SYSTEM” earlier in this section.)
OPENING WITH KEY

To open the trunk lid, insert the mechanical key to the trunk key cylinder and turn the key to the right side of the vehicle. To close, remove the key and push the trunk lid down.

TRUNK OPEN BUTTON

The trunk lid can be opened by pushing the TRUNK OPEN button on the Intelligent Key for more than 1 second.

See “KEYS” earlier in this section.

To connect the power to the trunk lid, push the switch to the ON position.

TRUNK RELEASE POWER CANCEL SWITCH

When the switch located inside the glove box is in the OFF position, the power to the trunk lid will be canceled and the trunk lid cannot be opened by the trunk lid release switch, the trunk open request switch or the TRUNK button on the Intelligent Key.

When you have to leave the vehicle with a valet and want to keep your belongings safe in the glove box and the trunk, push this switch to OFF and lock the glove box with the mechanical key. Then leave the vehicle and the Intelligent Key with the valet and keep the mechanical key with you.
Interior Trunk Lid Release

**WARNING**

Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the trunk lid securely latched, when not in use, and prevent children's access to Intelligent Keys.

The interior trunk lid release mechanism allows opening of the trunk lid in the event that people become locked inside the trunk or in the event of the loss of electrical power such as a discharged battery.

Releasing inside the trunk

To open the trunk lid from the inside, pull the release handle ① until the lock releases and push up on the trunk lid. The release lever is made of a material that glows in the dark after a brief exposure to ambient light.

The handle is located on the back of the trunk lid as illustrated.

Releasing from the rear seat

You can access the release handle through the trunk pass-through (rear seat armrest). (See “ARMREST” in the “1. Safety — Seats, seat belts and supplemental restraint system” section.)

To open the trunk lid from the rear seat, pull the release handle towards front of vehicle until the lock releases.

Opening the Fuel-Filler Door

To open the fuel-filler door, unlock the fuel-filler door by using one of the following operations, then push the upper left side of the door.

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

To lock, close the fuel-filler door securely and lock all doors by operating the door handle.
request switch, the LOCK button on the Intelligent Key, the mechanical key or the power door lock switch.

**FUEL-FILLER CAP**

**WARNING**

- Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop engine and do not smoke or allow open flames or sparks near the vehicle when refueling.
- Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- 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. It could also cause the malfunction indicator light to come on.
- Never pour fuel into the throttle body to attempt to start your vehicle.

- Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle or trailer. To reduce the risk of serious injury or death when filling portable fuel containers:
  - Always place the container on the ground when filling.
  - Do not use electronic devices when filling.
  - Keep the pump nozzle in contact with the container while you are filling it.
  - Use only approved portable fuel containers for flammable liquid.

**CAUTION**

- If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.
- Insert the cap straight into the fuel-filler tube, then tighten until the fuel-filler cap clicks. Failure to tighten the fuel-filler cap properly may cause the malfunction indicator light (MIL) to illuminate. If the light illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The light should turn off after a few driving trips. If the light does not turn off after a few driving trips, have the vehicle inspected by an INFINITI retailer.
- The LOOSE FUEL CAP warning (if so equipped) will appear if the fuel-filler cap is not properly tightened. Failure to tighten the fuel-filler cap properly after the LOOSE FUEL CAP warning (if so equipped) appears may cause the Malfunction Indicator Light (MIL) to illuminate.
To remove the fuel-filler cap:
1. Turn the fuel-filler cap counterclockwise to remove.
2. Put the fuel-filler cap on the cap holder while refueling.

To install the fuel-filler cap:
1. Insert the fuel-filler cap straight into the fuel-filler tube.
2. Turn the fuel-filler cap clockwise until it clicks. The fuel-filler cap is a ratcheting type.

LOOSE FUEL CAP warning (if so equipped)
The LOOSE FUEL CAP warning appears on the dot matrix liquid crystal display when the fuel-filler cap is not tightened correctly after the vehicle has been refueled.

To turn off the warning, perform the following:
1. Remove and install the fuel-filler cap as soon as possible. (See “FUEL-FILLER CAP”.)
2. Tighten the fuel-filler cap until it clicks.
3. Push the • switch on the right side of the combination meter panel for longer than 1 second to turn off the LOOSE FUEL CAP warning after tightening the fuel cap.

WARNING
- Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.
- Do not adjust the steering wheel any closer to you than is necessary for proper steering operation and comfort. The driver's air bag inflates with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel. Always use the seat belts.
ELECTRIC OPERATION
Tilt or telescopic operation
Move the lever to adjust the steering wheel up or down, forward or rearward to the desired position.

Entry/Exit function operation:
The automatic drive positioner system will make the steering wheel move up automatically when the driver's door is opened with the ignition switch in the LOCK position. This lets the driver get into and out of the seat more easily.

For more information, see “AUTOMATIC DRIVE POSITIONER” later in this section.

1. To block glare from the front, swing down the main sun visor ①.
2. To block glare from the side, remove the main sun visor from the center mount and swing the visor to the side ②.
3. Slide the sun visor ③ in or out as needed.
MIRRORS

INSIDE MIRROR
Adjust the height and the angle of the inside mirror to the desired position.

Automatic anti-glare type
The inside mirror is designed so that it automatically changes reflection according to the intensity of the headlights of the following vehicle.

The anti-glare system will be automatically turned on when the ignition switch is pushed to the ON position.

When the anti-glare system is turned on, the indicator light will illuminate and excessive glare from the headlights of the vehicle behind you will be reduced.

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

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

For the HomeLink® Universal Transceiver operation, see “HomeLink® UNIVERSAL TRANSCEIVER” in the “2. Instruments and controls” section.
WARNING
Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.

Adjusting outside mirrors
The outside mirror control switch is located on the armrest.
The outside mirror will operate only when the ignition switch is in the ACC or ON position.

Move the switch right or left to select the right or left side mirror ①, then adjust using the control switch ②.

Defrosting outside mirrors
The outside mirrors will be heated when the rear window defroster switch is operated.

CAUTION
• 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.
Foldable outside mirrors
The outside rearview mirror remote control operates when the ignition switch is in the “ACC” or “ON” position.
To fold the outside rearview mirrors, push the outside rearview mirror folding switch to the CLOSE position ①. To unfold, push to the OPEN position ②.
If mirrors are manually operated or bumped, the mirror body can become loose at the pivot point. To correct electronic mirror operation, cycle mirrors by pushing the “CLOSE” switch until completely closed, then push “OPEN” until mirror is in the open position.
Reverse tilt-down feature
When backing up the vehicle, the right and left outside mirrors will turn downward automatically to provide better rear visibility.
1. Push the ignition switch to the ON position.
2. Move the selector lever to the R (Reverse) position.
3. Select the right or left side mirror by operating the outside mirror control switch.
4. The outside mirror surface moves downward.
When one of the following conditions has occurred, the outside mirror surface will return to its original position.
- The selector lever is moved to any position other than R (Reverse).
- The outside mirror control switch is set to the center position.
- The ignition switch is pushed to the OFF position.
VANITY MIRROR

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

The automatic drive positioner system has four features:

- Entry/exit function
- Seat synchronization function
- Memory storage
- Setting memory function

ENTRY/EXIT FUNCTION

This system is designed so that the driver’s seat and steering column will automatically move when the selector lever is in the P (Park) position. This allows the driver to get into and out of the driver’s seat more easily.

The driver’s seat will slide backward and the steering wheel will move up when the driver’s door is opened with the ignition switch in the LOCK position.

The driver’s seat and steering wheel will return to the previous positions when the ignition switch is pushed to the ACC position.

The driver’s seat will not return to the previous positions if the seat or steering adjusting switch is operated when the seat is at the exit position.

Cancel or activate entry/exit function

The selector lever must be in the P (Park) position with the ignition switch in the OFF position.

The entry/exit function can be activated or canceled by pressing and holding the SET switch for more than 10 seconds.

The indicator lights on the memory switches (1 and 2) will blink once when the function is canceled, and the indicator lights will blink twice when the function is activated. Note that the indicator lights may illuminate after 5 seconds while holding the SET switch. This indicates readiness for linking the Intelligent Key to a stored memory position. Keep the SET switch pressed for more than 10 seconds to turn on or off the entry/exit function.

The entry/exit function can also be activated or canceled if the “Lift Steering Wheel on Exit” key or “Slide Driver Seat Back on Exit” key is turned to ON or OFF in the “Comfort & Conv.” settings. (See “VEHICLE INFORMATION AND SETTINGS” in the “6. Monitor, climate, audio, phone and voice recognition systems” section.)
Initialize entry/exit function

If the battery cable is disconnected, or if the fuse opens, the entry/exit function will not work though this function was set on before. In such a case, after connecting the battery or replacing with a new fuse, open and close the driver’s door more than two times after the ignition switch is turned from the ON position to the LOCK position. The entry/exit function will be activated.

SEAT SYNCHRONIZATION FUNCTION

The seat synchronization function automatically adjusts the positions of the steering wheel and outside mirrors when the seat is adjusted using the power seat switches.

However, the steering wheel and outside mirrors will not move if the seat is adjusted over the maximum thresholds. The system considers that the steering wheel and outside mirror adjustments are not necessary because the seat may not be adjusted for the driving position. Note that the function is set to disabled as the factory default setting.

The seat synchronization function operates under the following conditions:

- The ignition switch is in the ON position.
- The selector lever is in the P (Park) position.

If the outside mirrors or the steering wheel reaches its maximum adjustment, the function is automatically disabled. Restart the function by selecting a previously stored seat memory position using the memory switches (1 or 2). An Intelligent Key that was previously linked to the stored seat memory can also be used to restart the function.

If a seat position was not previously stored in the seat memory, restart the function by adjusting the steering wheel and outside mirrors manually for your best driving position and then drive the vehicle above 4 MPH (7 km/h).

Cancel or activate seat synchronization function

The selector lever must be in the P (Park) position with the ignition switch in the ACC position.

MEMORY STORAGE

Two positions for the driver’s seat, steering column and outside mirrors can be stored in the automatic drive positioner memory. Follow these procedures to use the memory system.

1. Move the selector lever to the P (Park) position.

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2. Push the ignition switch to the ON position.

3. Adjust the driver's seat, steering column and outside mirrors to the desired positions by manually operating each adjusting switch. For additional information, see "SEATS" in the “1. Safety — Seats, seat belts and supplemental restraint system” section and "TILT/TELESCOPIC STEERING" page 3-21 and "OUTSIDE MIRRORS" earlier in this section.

4. Push the SET switch and, within 5 seconds, push the memory switch (1 or 2) fully for at least 1 second.

   The indicator light for the pushed memory switch will stay on for approximately 5 seconds after pushing the switch.

   If memory is stored in the same memory switch, the previous memory will be deleted.

Linking Intelligent Key to a stored memory position

The Intelligent Key can be linked to a stored memory position with the following procedure.

1. Follow the steps for storing a memory position.

2. While the indicator light for the memory switch being set is illuminated for 5 seconds, push the  button on the Intelligent Key. If the indicator light blinks, the Intelligent Key is linked to that memory setting.

   Push the ignition switch to the OFF position, and then push the  button on the Intelligent Key. The driver's seat, steering wheel and outside mirrors will move to the memorized position.

Confirming memory storage

- Push the ignition switch to the ON position and push the SET switch. If the main memory has not been stored, the indicator light will come on for approximately 0.5 second. When the memory has stored in position, the indicator light will stay on for approximately 5 seconds.

- If the battery cable is disconnected, or if the fuse opens, the memory will be canceled. In this case, reset the desired position using the previous procedure.

- If optional Intelligent Keys are added to your vehicle, the memory storage procedure to switch 1 or 2 and linking Intelligent Key procedure to a stored memory position should be performed again for each Intelligent Key. For additional Intelligent Key information, see "KEYS" earlier in this section.

Selecting the memorized position

1. Move the selector lever to the P (Park) position.

2. Use one of the following methods to move the driver's seat, the outside mirrors and the steering wheel.

   - Push the ignition switch to the ON position and push the memory switch (1 or 2) fully for at least 1 second.

   - Within 45 seconds of opening the driver's door, push the memory switch (1 or 2) fully for at least 1 second.

The driver's seat, steering column and outside mirrors will move to the memorized position with the indicator light flashing, and then the light will stay on for approximately 5 seconds.

SETTING MEMORY FUNCTION

The status of the following settings can be linked to the Intelligent Key and the memorized settings can be available for each Intelligent Key.

- Climate control system
- Navigation system (if so equipped)
Audio system

To use the memory function, lock the doors with the Intelligent Key that is linked to the settings.

To enable the memorized settings:
1. Carry the Intelligent Key that is linked to the settings, and unlock the doors by pushing the driver’s door handle request switch or UNLOCK button on the Intelligent Key.
2. Push the ignition switch to the “ON” position. “Connection with the key has been done” will be displayed on the screen and the memorized settings are available (only when a new Intelligent Key is used).

SYSTEM OPERATION

The automatic drive positioner system will not work or will stop operating under the following conditions:
- When the vehicle speed is above 4 MPH (7 km/h).
- When the adjusting switch for the driver’s seat and steering column is turned on while the automatic drive positioner is operating.
- When the memory switch 1 or 2 is not pushed for at least 1 second.
- When the seat, steering column and outside mirrors have already been moved to the memorized position.
- When no position is stored in the memory switch.
- When the engine is started while moving the automatic drive positioner.
- When the selector lever is moved from the P (Park) position to any other position. (However, it will not be canceled if the switch is pushed while the seat and steering column are returning to the previous positions (entry/exit function).)
- When the driver’s door remains open for more than 45 seconds and the ignition switch is not in the ON position.
- The seat synchronization function is automatically disabled if the outside mirrors or steering wheel reaches its maximum adjustment.
- The seat synchronization function will not operate if the seat is adjusted over one of the following maximum thresholds:
  - Seat sliding: 3.0 in (76 mm)
  - Seatback reclining: 9.1 degrees
  - Seat lifter (rear side): 0.8 in (20 mm)
4 Monitor, climate, audio, phone and voice recognition systems

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WARNING

- Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electric shock.
- Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.
- In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately and contact your nearest INFINITI retailer. Ignoring such conditions may lead to accidents, fire, or electric shock.
- Park the vehicle in a safe location and apply the parking brake to view the images on the front center display screen using devices connected to the auxiliary input jacks.

Do not attempt to operate the system in extreme temperature conditions [below –4°F (–20°C) and above 158°F (70°C)]. Operating this system under these conditions may result in system malfunctions.

4-2 Monitor, climate, audio, phone and voice recognition systems
When you use this system, make sure the engine is running.

If you use the system with the engine not running (ignition ON or ACC) for a long time, it will use up all the battery power, and the engine will not start.

Models without navigation system

1. “INFO” vehicle information button (P. 4-8)
2. “STATUS” status display button (P. 4-8)
3. “DISP” display setting button (P. 4-8)
4. “+” brightness UP button (P. 4-8)
5. “ECON” button (P. 4-8)
6. “SETTING” button (P. 4-14)
7. INFINITI controller (P. 4-4)
8. “OFF” brightness control and display ON/OFF button (P. 4-8)

Monitor, climate, audio, phone and voice recognition systems 4-3
HOW TO USE INFINITI CONTROLLER

Choose an item on the display by rotating or pushing the center dial upward/downward, and push the ENTER button for operation.

If you push the BACK button before the setup is completed, the setup will be canceled and/or the display will return to the previous screen.

After the setup is completed, push the BACK button and return to the previous screen.

For the VOICE button functions, refer to the separate Navigation System Owner’s Manual.

HOW TO USE TOUCH SCREEN (models with navigation system)

CAUTION

- The glass screen on the liquid crystal display may break if it is hit with a hard or sharp object. If the glass breaks, do not touch the liquid crystalline material. In case of contact with skin, wash immediately with soap and water.

WARNING

- To clean the display, use a soft, dry cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never use a rough cloth, alcohol, benzine, thinner or any kind of solvent or paper towel with a chemical cleaning agent. They will scratch or deteriorate the panel.
- Do not splash any liquid such as water or car fragrance on the display. Contact with liquid will cause the system to malfunction.

To ensure safe driving, some functions cannot be operated while driving.

The on-screen functions that are not available while driving will be “grayed out” or muted.

Park the vehicle in a safe location and then operate the navigation system.

CAUTION

- ALWAYS give your full attention to driving.
- Avoid using vehicle features that could distract you. If distracted, you could lose control of your vehicle and cause an accident.
Touch screen operation

With this system, the same operations as those for the INFINITI controller are possible using the touch screen operation.

Selecting the item:

Touch an item to select it. To select the “Audio” settings, touch the “Audio” area \(^1\) on the screen.

Touch the “BACK” \(^2\) key to return to the previous screen.

Adjusting an item:

Touch the \(+\) \(^1\) or \(-\) \(^2\) key to adjust the settings.

Touch the \(\) \(^3\) or \(\) \(^4\) key to move to the previous or next item.

Touch the \(\) \(^5\) or \(\) \(^6\) key to move to the previous or next page.

Inputting characters:

Touch the letter or number \(^7\).

There are some options available when inputting characters.

- **Uppercase:**
  - Shows uppercase characters.

- **Lowercase:**
  - Shows lowercase characters.

- **Symbols:**
  - Shows symbols such as the question mark (?)

- **Space:**
  - Inserts a space.
● Delete:
Deletes the last character that has been input with one touch. Push and hold to delete all of the characters.

● OK:
Completes character inputs.

Touch screen maintenance
If you clean the display screen, use a dry, soft cloth. If additional cleaning is necessary, use a small amount of neutral detergent with a soft cloth. Never spray the screen with water or detergent. Dampen the cloth first, and then wipe the screen.

MENU OPTIONS (models with navigation system)
The start menu can be displayed using the menu control switch on the steering-wheel-mounted controls.

1. While the MAP or STATUS screen is displayed, push and hold the menu control switch until the "Menu Options" screen appears.

2. Highlight the preferred item by tilting the menu control switch up or down, and then push the menu control switch to select it.

Available items
Destination/Route:
These items are for the navigation system. See the separate Navigation System Owner's Manual for details.

Info:
Displays the information screen. It is the same screen that appears when you push the INFO button.

Settings:
Displays the settings screen. It is the same screen that appears when you push the SETTING button.

4-6  Monitor, climate, audio, phone and voice recognition systems
HOW TO SELECT MENUS ON THE SCREEN

Vehicle functions are viewed on the display screen in menus. To select each key item, highlight the preferred item using the INFINITI controller and push the ENTER button.

Whenever a menu selection is made or menu item is highlighted, different areas on the screen provide you with important information. See the following for details.

1. Header:
   Shows the path used to get to the current screen.

2. Menu Selections:
   Shows the options to choose within that menu screen.

3. UP/DOWN Movement indicator:
   Shows that the INFINITI controller may be used to move UP/DOWN on the screen and select more options.

4. Menu Items Counter:
   Shows the total number of items listed across all pages for the current menu.

5. Footer/Information Line:
   Provides more information (if available) about the menu selection currently highlighted.

Models with navigation system

Models without navigation system
VEHICLE INFORMATION AND SETTINGS

HOW TO USE STATUS BUTTON
To display the status of the audio, climate control system, fuel consumption and navigation system (if so equipped), push the STATUS button. The following information will appear when the STATUS button is pushed repeatedly.
Audio and Climate control system → Audio and fuel economy → Audio and Navigation system (if so equipped)

HOW TO USE BRIGHTNESS CONTROL AND DISPLAY ON/OFF BUTTON
Push the “OFF” button to switch the display brightness to the daytime mode or the nighttime mode, and to adjust the display brightness using the INFINITI controller while the indicator is displayed at the bottom of the screen.
Push and hold the “OFF” button for more than 2 seconds to turn the display off. Push the button again to turn the display on.
Models without navigation system:
The display brightness can also be adjusted using the “+” button or “−” button.

HOW TO USE DISP BUTTON
Push the DISP button to show the display setting screen. (See “Display settings (models with navigation system)” later in this section.)

HOW TO USE ECON BUTTON
(models without navigation system)
Push the “ECON” button to show fuel economy information. (See “Fuel Economy information” later in this section.)

HOW TO USE INFO BUTTON
The display screen shows vehicle and navigation (if so equipped) information for your convenience.
The information shown on the screen should be a guide to determine the condition of the vehicle. See the following for details.

4-8 Monitor, climate, audio, phone and voice recognition systems
Vehicle information display

1. Push the INFO button on the control panel.
2. Select an item from the INFO menu.
3. After viewing or adjusting the information on the following screens, push the BACK button to return to the INFO menu.

See the separate Navigation System Owner’s Manual for the following items:

- Where am I?
- Traffic Info
- Weather Info
- Map Update
- Navigation Version

*When the ignition switch is in the ON position, the “Navigation Version” key is displayed after selecting the “Others” key.

Models with navigation system

Models without navigation system

Monitor, climate, audio, phone and voice recognition systems 4-9
Fuel Economy information

The distance to empty, average fuel economy and current fuel economy will be displayed for reference.

To reset the average fuel economy (Avg Fuel Econ), select the “Reset Fuel Eco” or “Reset” key.

If the “Fuel Eco History” or “View” key is selected, the average fuel consumption history will be displayed in graph form along with the average for the previous Reset-to-Reset period.

The unit can be converted between “US” and “Metric”. (See “HOW TO USE SETTING BUTTON” later in this section.)

The fuel economy information may differ from the information displayed on the vehicle information display. This is due to the timing difference in updating the information and does not indicate a malfunction.

For models without the navigation system, the information can be displayed by pushing the ECON button on the control panel.

TIRE PRESSURE information

WARNING

● When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.

● Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.

The tire pressure will be displayed for reference.

The pressure indication “** kPa” or “** psi” on the screen means that the pressure is being measured. After a few driving trips, the pressure for each tire will be displayed.

For models without navigation system, to change the measurement units, select the “Select Units” key with the INFINITI controller and push the ENTER button.

In case of low tire pressure, LOW PRESSURE information will be displayed on the screen. Check the pressure of all tires.

4-10 Monitor, climate, audio, phone and voice recognition systems
Tire pressure rises and falls depending on the heat caused by the vehicle's traveling condition and the temperature.

After tire rotation is performed, tire pressure will not be displayed in the actual tire position. Drive the vehicle at over 25 MPH (40 km/h) for approximately 10 minutes to reset the display.

For more details about the Tire Pressure Monitoring System (TPMS), see “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section.

*When the ignition switch is in the ACC position, the “Tire Pressure” key is not displayed.
Maintenance information

The maintenance intervals can be displayed for the engine oil, oil filter, tire and other reminders.

To set a maintenance interval, select a preferred item from the list.

You can also set to display a message to remind you that the maintenance needs to be performed.

The following example shows how to set the engine oil maintenance information. Use the same steps to set the other maintenance information.

1. Set the interval (mileage) of the maintenance schedule. To determine the recommended maintenance interval, refer to your “INFINITI Service and Maintenance Guide”.
2. To display the reminder automatically when the desired distance is reached, select the “Reminder” key.
3. Reset the driving distance to the new maintenance schedule.
4. To return to the previous screen, push the BACK button.

The unit can be converted between “US” and “Metric”. (See “HOW TO USE SETTING BUTTON” later in this section.)

The Reminder will be automatically displayed when the specified distance has been driven and every time the ignition switch is pushed to the ACC or ON position. The reminder will not appear while driving.

Select the “OK” key to hide the reminder for the rest of the current drive.

To stop the reminder from appearing, perform one of the following actions:

● Select the “Reset Distance” key.
● Deactivate the “Reminder”.
● Increase the “Interval” distance to be more than the current distance being tracked.

4-12  Monitor, climate, audio, phone and voice recognition systems
Others information (models with navigation system)

The Others information display will appear when pushing the INFO button and selecting the “Others” key.

**Navigation Version**:

For the details of this item, see the separate Navigation System Owner’s Manual.

*When the ignition switch is in the ignition position, the “Navigation Version” key is displayed after pushing the INFO button.

**GPS Position**:

For the details of this item, see the separate Navigation System Owner’s Manual.

**Voice Recognition**:

For the details of this item, see “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section.
HOW TO USE SETTING BUTTON

The display as illustrated will appear when the SETTING button is pushed.

For navigation settings, refer to the separate Navigation System Owner's Manual.

Audio settings

The display as illustrated will appear when pushing the SETTING button and selecting the “Audio” key.

**Bass/Treble/Balance/Fade:**
To adjust the speaker tone quality and sound balance, select the “Bass”, “Treble”, “Balance” or “Fade” key and adjust it with the INFINITI controller.

These items can also be adjusted by pushing and turning the AUDIO knob.

**Speed Sensitive Vol. (if so equipped):**
The audio system's volume is increased with the vehicle speed. Select the “Speed Sensitive Vol.” key and adjust the effect level with the INFINITI controller. The Speed Sensitive Volume function is turned off when the level is set to OFF. Increasing the value will cause the volume to increase faster with vehicle speed.

**Precision Phased Audio (if so equipped):**
When this item is turned to ON, super high pitch sound and super low pitch sound are emphasized and midrange sound is played naturally.
**BOSE® Centerpoint® (if so equipped):**
When this item is turned to ON, an exciting surround sound effect is generated from a traditional stereo recording.

**BOSE® AudioPilot® (if so equipped):**
When this item is turned to ON, AudioPilot® 2 Noise Compensation Technology monitors noise in the passenger compartment with a microphone and compensates for any unpleasant noise.

**Surround Effect (if so equipped):**
To adjust the surround sound volume, select “Surround Effect” key and adjust it with the INFINITI controller.

**DivX® Registration Code (models with navigation system):**
The registration code for a device that is used to download DivX® files will be displayed on the screen. If a disc is loaded or a USB memory is connected to the audio system, this function will not be activated.

**Display Album Cover Art (models with navigation system):**
When this item is turned to ON, the album cover image is displayed when playing iPod® or MP3 music files through a CD, DVD or USB memory.

When the image is not properly embedded in the file or device, the image will not be displayed.

**Phone settings (models with navigation system):**
For details of the “Phone” settings, see “BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)” later in this section.

**Bluetooth® settings (models with navigation system):**
For details of the “Bluetooth®” settings, see “BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)” later in this section or “BLUETOOTH® STREAMING AUDIO (models with navigation system)” later in this section.

**Volume and Beeps settings (models with navigation system):**
The display as illustrated will appear when pushing the SETTING button, selecting the “Volume & Beeps” key.

**Audio Volume:**
To increase or decrease the audio volume, select the “Audio Volume” key and adjust it with the INFINITI controller. You can also adjust the audio volume by turning the VOLUME control knob.
Guidance Volume:
To adjust the guidance voice volume louder or softer, select the “Guidance Volume” key and adjust it with the INFINITI controller.
You can also adjust the guidance voice volume by turning the VOLUME control knob while voice guidance is being announced.

Ringtone/Incoming Call/Outgoing Call:
For the details of these items, see “BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)” later in this section.

Switch Beeps:
When this item is turned to ON, you will hear a beep sound when you use a button.

Guidance Voice:
When this item is turned to ON, you will hear voice guidance in the navigation operation or in other operations.

NOTE:
When the voice guidance is being announced during audio playback, turning the volume knob does not adjust the music level; it adjusts the guidance volume level. If voice guidance is not being heard, please check the Guidance Volume level.

Button Beeps settings (models without navigation system)
The “Button Beeps” screen will appear when pushing the SETTING button, selecting the “Button Beeps” key with the INFINITI controller and pushing the ENTER button.

Button Beeps:
When this item is turned to ON, you will hear a beep sound when you use a button.

ECO DRIVE settings (if so equipped)
To adjust the Eco pedal driver's assist, select the “Standard”, “Soft” or “OFF” key and adjust it with the INFINITI controller. For the details of “ECO DRIVE”, see “ECO pedal system” in the “5. Starting and driving” section.

DRIVER ASSISTANCE settings (if so equipped)
For the details of the “Driver Assistance” settings, see “DISTANCE CONTROL ASSIST (DCA SYSTEM)” in the “5. Starting and driving” section, “LANE DEPARTURE PREVENTION (LDP) SYSTEM” in the “5. Starting and driving” section and “BLIND SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM” in the “5. Starting and driving” section.

4-16 Monitor, climate, audio, phone and voice recognition systems
Others settings (models with navigation system)

The Others settings display will appear when pushing the SETTING button and selecting the “Others” key.

The following items are available:
- Comfort
- Language & Units
- Voice Recognition
- Camera
- Image Viewer

Depending on the equipment, pushing SETTING will display the following items.
- Display
- Clock

Display settings (models with navigation system)

The display as illustrated will appear when pushing the SETTING button and selecting the “Others” key, and then selecting the “Display” key.

**Display Adjustment**

To adjust the display settings, select the “Display Adjustment” key. The following settings are available.
- Display

To turn off the screen, push the ENTER button and turn the “Display” indicator off. The other
method is to push and hold the "< quantify/> OFF" button for more than 2 seconds.

When any mode button is pushed with the screen off, the screen turns on for further operation. The screen will turn off automatically 5 seconds after the operation is finished.

To turn on the screen, set this item to the ON position, or push and hold the "< quantify/> OFF" button.

- Brightness/Contrast/Background Color

To adjust the brightness and contrast of the screen, select the “Brightness” or “Contrast” key.

Then, you can adjust the brightness and the contrast using the INFINITI controller.

For information on the “Background Color” key, refer to the separate Navigation System Owner’s Manual.

Color Theme :

Choose the theme color of the menu screen from “Black”, “Brown” or “Silver”.

Brightness/Contrast/Background Color:

To adjust the brightness, contrast and background color of the screen, select the appropriate “Brightness”, “Contrast” or “Background Color” key and push the ENTER button.

Then, you can adjust the brightness, and the contrast using the INFINITI controller. Switch the background color to the daytime mode or the nighttime mode by pushing the ENTER button.

Display settings (models without navigation system)

The “Display” screen will appear when pushing the DISP button on the control panel.

Display :

To turn off the screen, push the ENTER button and turn the “ON” indicator off.

When any mode button is pushed with the screen off, the screen turns on for further operation. The screen will turn off automatically 5 seconds after the operation is finished.

To turn on the screen, set this item to the “ON” position or push the "< quantify/>" button.
Comfort settings

Models with navigation system
The display as illustrated will appear when pushing the SETTING button and selecting the “Others” key, and then selecting the “Comfort” key. This key does not appear on the display until the ignition switch is pushed to the ON position.

Models without navigation system
The display as illustrated will appear when pushing the SETTING button and selecting the “Comfort” key. This key does not appear on the display until the ignition switch is pushed to the ON position.

Auto Interior Illumination:
When this item is turned to ON, the interior lights will illuminate if any door is unlocked.

Light Sensitivity:
Adjust the sensitivity of the automatic headlights higher (right) or lower (left).

Lift Steering Wheel on Exit (if so equipped):
When this item is turned to ON, the steering wheel moves upward for easy exit if the ignition switch is in the LOCK position and the driver’s door is opened. After getting into the vehicle and pushing the ignition switch to the ACC position, the steering wheel moves to the previous position.

Slide Driver Seat Back on Exit (if so equipped):
When this item is turned to ON, the driver’s seat moves backward for easy exit if the ignition switch is in the OFF position and the driver’s door is opened. After getting into the vehicle and pushing the ignition switch to the ACC position, the driver’s seat moves to the previous position.

Light Off Delay:
Choose the duration of the automatic headlight off timer from 0, 30, 45, 60, 90, 120, 150 and 180 second periods.

Selective Door Unlock:
When this item is turned to ON, only the driver’s door is unlocked first after the door unlock operation. When the door handle request switch on the driver’s or front passenger’s side door is pushed to be unlocked, only the corresponding door is unlocked first. All the doors can be unlocked if the door unlock operation is performed again within 60 seconds. When this item is turned to OFF, all the doors will be unlocked after the door unlock operation is performed once.

Monitor, climate, audio, phone and voice recognition systems 4-19
Intelligent Key Lock/Unlock:
When this item is turned to ON, door lock/unlock function by pushing the door handle request switch will be activated.

Return All Settings to Default:
Select this item and then select “YES” to return all settings to the default.

Clock settings (models with navigation system)
The display as illustrated will appear when pushing the SETTING button and selecting the “Others” key, and then selecting the “Clock” key.

On-screen Clock:
When this item is turned to ON, a clock is always displayed in the upper right corner of the screen.
This clock will indicate the time almost exactly because it is always adjusted by the GPS system.

Clock Format (24h):
When this item is turned to ON, the 24-hour clock is displayed. When this item is not turned to ON, the 12-hour clock is displayed.

Offset (hour)/(min):
Adjust the time by increasing or decreasing per hour or per minute.

Daylight Saving Time:
Turn this item to ON for daylight saving time application.

Time Zone:
Choose the time zone from the following
  ● Pacific
  ● Mountain
  ● Central
  ● Eastern
  ● Atlantic
  ● Newfoundland
  ● Hawaii
  ● Alaska
The Language & Units settings display will appear when pushing the SETTING button, selecting the “Language & Units” key with the INFINITI controller and pushing the ENTER button.

For models with the navigation system, select the “Others” key to show the “Language & Units” key.

Select Language:
Select the “Select Language” key. Choose “English”, “Français” or “Español” for your favorite display appearance.

If you select the “Français” key, the French language will be displayed, so please use the French Owner’s Manual. To obtain a French Owner’s Manual, see “OWNER’S MANUAL/SERVICE MANUAL ORDER INFORMATION” in the “9. Technical and consumer information” section.

Select Units:
Select the “Select Units” key. Choose “US” (Mile, °F, MPG) or “Metric” (km, °C, L/100 km) for your favorite display appearance.

Select Units (Tire Pressure):
Choose the “Select Units (Tire Pressure)” key and push the ENTER button. From the following display, select “kPa” or “psi”. When the ignition switch in the ACC position, the “Select Units (Tire Pressure)” key is not displayed.

Voice Recognition settings (models with navigation system)
For details about the “Voice Recognition” settings, see “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section.
Camera settings
The “CAMERA” screen will appear when selecting the “Camera” key with the INFINITI controller and pushing the ENTER button.

For the details about the camera system operation, see “REARVIEW MONITOR” later in this section.

Predictive Course Lines:
When this item is turned to ON, the predicted course lines will be displayed on the monitor when the selector/shift lever is in the “R” (Reverse) position.

Image Viewer (models with navigation system)
The image files in the USB memory will be displayed. To display the Image Viewer, push the SETTING button, select the “Other” key and then select the “Image Viewer” key. The image of the selected file is displayed on the right side of the screen.

When a number of folders are included in the USB memory, select a folder from the list to display the file list.

Images will not be shown on the display while the vehicle is in any drive position to reduce driver distraction. To view images, stop the vehicle in a safe location and apply the parking brake.
Full Screen Display:
The full screen display will appear when selecting the “Full Screen Display” key.

To operate the Image Viewer or to change the settings, select the desired key using the INFINITI controller.

- Start
Select the “Start” key to start playing the slideshow.

- Stop
Select the “Stop” key to stop the slideshow.

- Next
Select the “Next” key to display the next file.

- Previous
Select the “Previous” key to display the previous file.

Setting the Image Viewer:
The Image Viewer setting display will appear when selecting the “Settings” key on the full screen display. The following settings are available for the full screen display.

- Slideshow Speed
Select the “Slideshow Speed” key. From the following display, select the changing time from 5, 10, 30, 60 seconds or “No Auto Change”.

- Slideshow Order
Select the “Slideshow Order” key. From the following display, select “Random” or “Order List”. For “Order List”, the image order is the order of the files as stored on the USB memory.

Operating tips:
- Only files that meet the following conditions will be displayed.
  - Image type: JPEG
  - File Extensions: *.jpg, *.jpeg
  - Maximum Resolution: 2048 x 1536 pixels
  - Maximum Size: 2-MB
  - Colors: 32768 (15-bit)
  - Maximum File Name lengths: 253-Bytes
  - Maximum Folders: 500
  - Maximum Images per Folder: 1024
- If an electronic device (such as a digital camera) is directly connected to the vehicle using a USB cable, no image will be displayed on the screen.
- If the file name is too long, some file names may not be entirely displayed.
- When the total number of characters in the file name exceeds 100 or if 1 file name in a directory exceeds 100 characters, all files will show a shortened 8-character version. The image will still be displayed when selected.
HOW TO USE CLIMATE BUTTON

To display the setting climate control screen, push the CLIMATE button.

For details of the “CLIMATE” settings, see “AUTOMATIC CLIMATE CONTROL” later in this section.

When the selector lever is shifted into the “R” (Reverse) position, the monitor display shows view to the rear of the vehicle.

The system is designed as an aid to the driver in detecting large stationary objects to help avoid damaging the vehicle. The system will not detect small objects below the bumper and may not detect objects close to the bumper or on the ground.

**WARNING**

- The rearview camera is a convenience but it is not a substitute for proper backing up. Always turn and check that it is safe to do so before backing up. Always back up slowly.
- Objects viewed in the RearView Monitor differ from actual distance because a wide-angle lens is used. Objects in the RearView Monitor will appear visually opposite like ones viewed in the inside and outside mirrors.
- Make sure that the trunk is securely closed when backing up.
- Underneath the bumper and the corner areas of the bumper cannot be viewed on the RearView monitor because of its monitoring range limitation.

**WARNING**

- Do not put anything on the rearview camera. The rearview camera is installed above the license plate.
- When washing the vehicle with high-pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.
- Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.

**CAUTION**

There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.
HOW TO READ DISPLAYED LINES

Guiding lines which indicate the vehicle width and distances to objects with reference to the bumper line (A) are displayed on the monitor.

Distance guide lines:
Indicate distances from the bumper.
- Red line (1): approx. 1.5 ft (0.5 m)
- Yellow line (2): approx. 3 ft (1 m)
- Green line (3): approx. 7 ft (2 m)
- Green line (4): approx. 10 ft (3 m)

Vehicle width guide lines (5):
Indicate the vehicle width when backing up.

Preview course lines (6):
Indicate the predicted course when backing up. The predicted course lines will be displayed on the monitor when the selector lever is in the “R” (Reverse) position and the steering wheel is turned. The predicted course lines will move depending on how much the steering wheel is turned and will not be displayed while the steering wheel is in the neutral position.

HOW TO PARK WITH PREDICTED COURSE LINES

WARNING
- Always turn and check that it is safe to park your car before backing up. Always back up slowly.
- Use the displayed lines as a reference. The lines are highly affected by the number of occupants, fuel level, vehicle position, road condition and road grade.
- If the tires are replaced with different sized tires, the predicted course line may not be displayed correctly.
- On a snow-covered or slippery road, there may be a difference between the predicted course line and the actual course line.
- If the battery is disconnected or becomes discharged, the predicted course lines may not be displayed correctly. If this occurs, perform the following procedures.
  - Drive the vehicle on a straight road for more than 5 minutes.
- The displayed lines will appear slightly off to the right because the rearview camera is not installed in the rear center of the vehicle.
- The distance guide line and the vehicle width guide line should be used as a reference only when the vehicle is on a level paved surface. The distance viewed on the monitor is for reference only and may be different than the actual distance between the vehicle and displayed objects.
- When backing up the vehicle up a hill, objects viewed in the monitor are further than they appear. When backing up the vehicle down a hill, objects viewed in the monitor are closer than they appear. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.

The vehicle width and predicted course lines are wider than the actual width and course.
1. Visually check that the parking space is safe before parking your vehicle.

2. The rearview of the vehicle is displayed on the screen as illustrated when the selector lever is moved to the “R” (Reverse) position.

3. Slowly back up the vehicle adjusting the steering wheel so that the predicted course lines enter the parking space.

4. Maneuver the steering wheel to make the vehicle width guide lines parallel to the parking space while referring to the predicted course lines.

5. When the vehicle is parked in the space completely, move the selector lever to the P (Park) position and apply the parking brake.

**DIFFERENCE BETWEEN PREDICTED AND ACTUAL DISTANCES**

The distance guide line and the vehicle width guide line should be used as a reference only when the vehicle is on a level, paved surface. The distance viewed on the monitor is for reference only and may be different from the actual distance between the vehicle and displayed objects.
Backing up on a steep uphill

When backing up the vehicle up a hill, the distance guide lines and the vehicle width guide lines are shown closer than the actual distance. For example, the display shows 3 ft (1.0 m) to the place A, but the actual 3 ft (1.0 m) distance on the hill is the place B. Note that any object on the hill is further than it appears on the monitor.

Backing up on a steep downhill

When backing up the vehicle down a hill, the distance guide lines and the vehicle width guide lines are shown further than the actual distance. For example, the display shows 3 ft (1.0 m) to the place A, but the actual 3 ft...
(1.0 m) distance on the hill is the place B. Note that any object on the hill is closer than it appears on the monitor.

Back up near a projecting object

The predicted course lines A do not touch the object in the display. However, the vehicle may hit the object if it projects over the actual backing up course.

Back up behind a projecting object

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

HOW TO ADJUST SCREEN

To adjust the Display ON/OFF, Brightness, Tint, Color, Contrast and Black Level of the RearView monitor, push the SETTING button with the RearView monitor on, select the “Display” key on the screen and select the item key and adjust the level using the INFINITI controller.

Do not adjust the Brightness, Tint, Color, Contrast and Black Level of the RearView monitor while the vehicle is moving. Make sure the parking brake is firmly applied and the engine is not running.

The display of the predicted course lines can be set to ON or OFF. For details, see “Camera settings” earlier in this section.

OPERATING TIPS

● When the selector lever is shifted to the “R” (Reverse) position, the monitor screen automatically changes to the RearView monitor mode.

● It may take some time until the RearView monitor is displayed after the selector lever has been shifted to “R” from another position or to another position from “R”. Objects may be distorted momentarily until the RearView monitor screen is displayed completely.

● When the temperature is extremely high or low, the screen may not clearly display objects. This is not a malfunction.

● When strong light directly enters the camera, objects may not be displayed clearly. This is not a malfunction.

● Vertical lines may be seen in objects on the screen. This is due to strong reflected light from the bumper. This is not a malfunction.

● The screen may flicker under fluorescent light. This is not a malfunction.

● The colors of objects on the RearView monitor may differ somewhat from those of the actual object.

● Objects on the monitor may not be clear in a dark place or at night. This is not a malfunction.

● If dirt, rain or snow attaches to the camera, the RearView monitor may not clearly display objects. Clean the camera.

● Do not use alcohol, benzine or thinner to clean the camera. This will cause discoloration. To clean the camera, wipe with a cloth dampened with diluted mild cleaning agent and then wipe with a dry cloth.

● Do not damage the camera as the monitor screen may be adversely affected.

● Do not use wax on the camera window. Wipe off any wax with a clean cloth dampened with mild detergent diluted with water.
VENTILATORS

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

- : This symbol indicates that the ventilators are closed.

///: This symbol indicates that the ventilators are open.

WARNING

- The air conditioner cooling function operates only when the engine is running.
- Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. On hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.
- Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.

Start the engine and operate the automatic climate control system.

4-30 Monitor, climate, audio, phone and voice recognition systems
When the “STATUS” button is pushed, the automatic climate control status screen will appear. (See “HOW TO USE STATUS BUTTON” earlier in this section.)

You can individually set the driver and front passenger side temperature using each temperature control button.
1. “” front defroster button
2. “” rear window defroster button  
   (See “REAR WINDOW AND OUTSIDE MIRROR DEFROSTER SWITCH” in the “2. Instruments and controls” section.)
3. “OFF” button for climate control system
4. “” fan speed decrease button
5. “” fan speed increase button
6. “AUTO” automatic climate control ON button
7. “” air intake control button
8. “” air recirculation button.
9. “CLIMATE” button
10, 11. Temperature control button  
   (driver side)
12. “” manual air flow control button  
    (driver side)
13. “” manual air flow control button  
    (passenger side)
14, 15. Temperature control button  
    (passenger side)

AUTOMATIC CLIMATE CONTROL  
(Type A)

Automatic operation

Cooling and/or dehumidified heating (AUTO) :  
This mode may be used all year round. The system works automatically to control the inside temperature, air flow distribution and fan speed after the preferred temperature is set manually.
1. Push the “AUTO” button on. (The indicator on the button will illuminate and AUTO will be displayed.)
2. Push the temperature control button (driver side) to set the desired temperature.
   • The temperature can be set within the following range.
     - For U.S.: 60 to 90°F (16 to 32°C)
     - For Canada: 64 to 90°F (18 to 32°C)
   • The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed will also be controlled automatically.

3. To turn off the climate control system, push the “OFF” button.

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 defrosting or defogging:**
1. Push the front defroster “ ” button. (The indicator light on the button will come on.)
2. Push the temperature control button to set the desired temperature.
   • To quickly remove ice from the outside of the windows, push the fan speed increase “ ” button and set it to the maximum position.
   • As soon as possible after the windshield is clean, push the “AUTO” button to return to the auto mode.
   • When the front defroster “ ” button is pushed, the air conditioner will automatically be turned on at outside temperatures above 23°F (−5°C) to defog the windshield, and the air recirculate mode will automatically be turned off.

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

**Manual operation**

**Fan speed control:**
Push the fan speed increase “ ” or decrease “ ” buttons to manually control the fan speed.
Push the “AUTO” button to return to automatic control of the fan speed.

**Air recirculation:**
Push the air recirculation “ ” button to change the air circulation mode. When the indicator light illuminates, the flowing air is recirculated inside the vehicle.

The air recirculation mode cannot be activated when the air conditioner is in the front defrosting mode “ ”.

**Outside air circulation:**
Push the outside air circulation “ ” button to change the air circulation mode. When the indicator light illuminates, the flowing air is drawn from outside the vehicle.

**Automatic air intake control:**
To set the automatic control mode, perform one of the following operations.
   • When the outside air circulation mode is on, push and hold the outside air circulation “ ” button for more than 2 seconds.
   • When the air recirculation mode is on, push and hold the air recirculation “ ” button for more than 2 seconds.

When setting the automatic control mode, both indicator lights will blink twice indicating that the system is in the automatic control mode.

Monitor, climate, audio, phone and voice recognition systems
Air flow control:

Pushing the “” button selects the air outlet to:

- Air flows from center and side ventilators.
- Air flows from center and side ventilators and foot outlets.
- Air flows mainly from foot outlets.
- Air flows from defroster and foot outlets.

CLIMATE setting screen

Climate control settings can be changed on the screen.

Push the CLIMATE button on the instrument panel and turn the display to the Climate mode.

Heating (A/C OFF):

The air conditioner does not activate in this mode. When you need to heat only, use this mode.

1. Push the “CLIMATE” button to on.
2. If the “A/C” indicator on the screen illuminates, select the “A/C” key. (The “A/C” indicator will turn off.)
3. Push the temperature control button to set the desired temperature.
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
   - Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
   - Not recommended if windows fog up.
When the outside temperature decreases to approximately \(-23^\circ\text{F} (0^\circ\text{C})\), the A/C function does not activate even if the “A/C” indicator light illuminates.

**Dual control mode setting:**
You can individually set the driver and front passenger side temperature and air flow mode using each temperature control button or manual air flow control button.
1. Push the “CLIMATE” button to on.
2. By selecting the “DUAL” key, or when the passenger side temperature control button or manual air control button is pushed, the “DUAL” indicator on the screen will illuminate.
3. To turn off the passenger side temperature control, select the “DUAL” key and the “DUAL” indicator will turn off.
   ● The Dual control mode cannot be activated when the air conditioner is in the front defrosting mode “\(\mathbb{H}\) “.

**Automatic upper ventilator system:**
In this mode, air from the center ventilators flows both straight and upward in order to control the cabin temperature without blowing air directly on the occupants.
1. Push the “CLIMATE” button to on.
2. Select the “Upper Vent” key, and the indicator on the screen will illuminate. The air flow against the driver’s or passenger’s upper body becomes gentle.
   ● Distribution between straight and upward flows is determined automatically by the climate control system. If you prefer strong air flow against your upper body, select the “Upper Vent” key to turn the indicator light off.
   ● When the outside temperature decreases to approximately \(-14^\circ\text{F} (\sim-10^\circ\text{C})\), the “Upper Vent” function does not activate. The “Upper Vent” function will reactivate automatically when ambient temperature is \(-14^\circ\text{F} (\sim-10^\circ\text{C})\) or above.
1. "❄️" front defroster button
2. "❄️" rear window defogger button
   (See “REAR WINDOW AND OUTSIDE MIRROR DEFROSTER SWITCH” in the “2. Instruments and controls” section.)
3. "OFF" button for climate control system
4. "❄️" fan speed decrease button
5. "❄️" fan speed increase button
6. "AUTO" automatic operation button
7. "🌳" Forest button
8. "🍃" intake air control button
9. "CLIMATE" button
10, 11. Temperature control button
      (driver side)
12. "🍃" manual air flow control button
      (driver side)
13. "🍃" manual air flow control button
      (passenger side)
14, 15. Temperature control button (passenger side)

AUTOMATIC CLIMATE CONTROL
(Type B)

Automatic operation

Cooling and/or dehumidified heating (AUTO):
This mode may be used year-round as the system automatically controls constant temperature, air flow distribution and fan speed after the desired temperature is set manually.
1. Push the “AUTO” button.
   (The AUTO indicator light on the button will illuminate and “AUTO” will appear on the display.)
2. Push the temperature control button (driver's side) to set the desired temperature.
   - The temperature can be set within the following range.
     - For U.S.: 60 to 90°F (16 to 32°C)
     - For Canada: 64 to 90°F (18 to 32°C)
   - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed will also be controlled automatically.

3. To turn off the climate control system, push the “OFF” button.

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 defrosting/defogging:**
1. Push the “ ” button. (The indicator light will illuminate.)
2. Push the temperature control button to set the desired temperature.
   - To remove frost from the outside surface of the windshield quickly, set the temperature control and fan speed control to their maximum position.

**Manual operation**

The manual mode can be used to control the heater and air conditioner to your desired settings.

To turn off the heater and air conditioner, push the “OFF” button.

**Fan speed control:**

- Push the fan speed control “ ” button to increase the fan speed.
- Push the fan speed control “ ” button to decrease the fan speed.
- Push the “AUTO” button to change the fan speed to the automatic mode.

**Air flow control:**

Push the “ ” button to change the air flow mode.

- : Air flows from the center and side ventilators.
- : Air flows from the center and side ventilators, and foot outlets.
- : Air flows mainly from the foot outlets.
- : Air flows from the defogger and foot outlets.

**Temperature control:**

Turn the temperature control dial to set the desired temperature.
- The temperature can be set within the following range.
  - For U.S.: 60 to 90°F (16 to 32°C)
  - For Canada: 64 to 90°F (18 to 32°C)

**Air recirculation:**

Push the intake air control “ ” button to recirculate interior air inside the vehicle. The “ ” indicator light on the button will come on.
The air recirculation mode cannot be activated when the air conditioner is in the front defrosting mode “✓”.

**Outside air circulation:**

Push the intake air control “✓” button to change the air circulation from the intake air to the outside air. The “✓” indicator light will turn off.

**Automatic air intake control:**

In the AUTO mode, the intake air will be controlled automatically. To manually control the intake air, push the intake air control “✓” button. To return to the automatic control mode, push the intake air control “✓” button for approximately 2 seconds. The indicator lights will flash twice, and then the intake air will be controlled automatically.

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**CLIMATE setting screen**

Climate control settings can be changed on the screen.

Push the “CLIMATE” button on the instrument panel and turn the display to the “Climate” screen.

**Heating (A/C off):**

The air conditioner does not activate in this mode. When you need to heat only, use this mode.

1. Push the “CLIMATE” button to on.
2. Push the “AUTO” button. (The “AUTO” indicator on the screen will illuminate and “AUTO” will appear on the display.)
3. If the “A/C” indicator illuminates, select the “A/C” key. (The “A/C” indicator will turn off.)
4. Push the temperature control button to set the desired temperature.
   - Do not set the temperature lower than the outside air temperature. Doing so may cause the temperature to not to be controlled properly.
   - If the windows fog up, use dehumidified heating instead of A/C off heating.

**Dual control mode setting:**

You can individually set driver and front passenger side temperature and air flow mode using each temperature control or manual air flow control button.

1. Push the “CLIMATE” button to on.
2. By selecting the “DUAL” key, or when the passenger side temperature control button or manual air control button is pushed, the “DUAL” indicator on the screen will illuminate.
3. To turn off the passenger side temperature control, select the “DUAL” key and the “DUAL” indicator will turn off.
The Dual control mode cannot be activated when the air conditioner is in the front defrosting mode.

Automatic upper ventilator system:
1. Push the “CLIMATE” button to on.
2. Select the “Upper Vent” key and the indicator on the screen will illuminate. The air flow against the driver’s or passenger’s upper body becomes gentle.

In this mode, air from the center ventilators flows both straight and upward in order to control the cabin temperature without blowing air directly on the occupants.

Distribution between straight and upward flows is determined automatically by the climate control system. If you prefer strong air flow against your upper body, select “Upper Vent” key to turn the indicator off.

When the outside temperature decreases to approximately $-14^\circ\text{F} (-10^\circ\text{C})$, the “Upper Vent” function will not activate. The “Upper Vent” function will reactivate automatically when ambient temperature is approximately $-14^\circ\text{F} (-10^\circ\text{C})$ or above.

Display Forest Air™ system setting screen:
The “Forest Air setting” screen will appear when selecting the “Forest Air Setting” key.

For the details about the Forest Air™ system setting operation, see “Setting Forest Air™” later in this section.

Display Forest Air™ Information screen:
The Forest Air™ system information screen will appear when selecting the “Forest Air Info” key.

For details about the Forest Air™ system information screen, see “Forest Air™ system Information” later in this section.

FOREST AIR™
The Forest Air™ system keeps the air inside the vehicle clean using the automatic air intake system and automatic ventilation. The Forest Air™ system also makes the inside of the vehicle more comfortable, using a combination of the upper ventilator and center ventilators at random.

*Forest Air™ is a trademark of Nissan Motor Co., Ltd.

Main operation
Push the “ ” button.
(The “ ” and “AUTO” indicator light on the button will illuminate.)

When the following functions and sensors are turned on, the Forest Air™ system settings will activate:
- Breeze Mode
- Outside odor and exhaust gas detection sensor
- Inside Air Quality sensor
- Auto humidity control

The fan speed and air flow is automatically set to the AUTO position.

- The Forest Air™ system can be adjusted and/or activated/deactivated for each function. For details of the Forest Air™ system settings, see later in this section.
- When the “ ” button is pushed while the air conditioner is off, the air conditioner will automatically activate.
- The Forest Air™ system automatically turns off when the outside temperature is below approximately $32^\circ\text{F} (0^\circ\text{C})$. When the temperature is below approximately $32^\circ\text{F} (0^\circ\text{C})$, the Forest Air system can not be turned on when the button is pressed. This is not a malfunction. Push the to reactivate the system when the outside temperature is above approximately $32^\circ\text{F} (0^\circ\text{C})$. The
indicator light on the " " button illuminates when the system is operating.

- The air flow control is not available in the front defogger mode. When the " " button is pushed while the Forest Air™ system is turned on, the Forest Air™ system will turn off.

Operating tips

Breeze Mode:

When this mode is ON, fan speed fluctuates during the Forest Air™ system operation, creating a wind breeze similar to a natural breeze using a combination of the upper ventilator and the center ventilators at random.

- Breeze Mode will activate after the temperature of the passenger compartment becomes suitable.
- This function will not operate immediately after the engine starts.

- Breeze Mode is activated when the air flow mode is in the " " and " " mode.
- This function will turn off if the fan speed or a ventilator outlet is manually adjusted.
- The breeze patterns may change in accordance with the amount of sun load.

- When operating fan speed or air flow control while the Forest Air™ system is turned on, the " " indicator light on the button will turn off automatically, and the Breeze Mode function will turn off.
- When the Breeze Mode function is turned off while the Forest Air™ system is on, the Breeze Mode function will remain off until the " " button is turned off and on again.

Outside odor and exhaust gas detection sensor:

This vehicle is equipped with an outside odor and exhaust gas detection sensor. When the automatic intake air control is on, the sensor detects odors and exhaust gas, and then the system automatically changes from the outside air circulation mode to the recirculation mode. When the " " button is pushed, the outside odor and exhaust gas detection sensor will turn on.

When the Forest Air™ system is on, for the first 40 seconds, the recirculation mode is selected to prevent dust, dirt and pollen from entering the vehicle, and the system cleans the air inside of the vehicle with Plasmaguard™ that are emitted from the ventilator. After 40 seconds, the outside odor and exhaust gas sensor activates and automatically alternates between the recirculation mode and outside air circulation mode.

- The outside odor and exhaust gas detection sensor detects industry odors such as pulp or chemicals, and exhaust gas such as gasoline or diesel.

Inside Air Quality sensor:

This vehicle is equipped with an inside air quality sensor. When the sensor detects odor in the cabin, the system increases the fan speed automatically. When the Forest Air™ system is on, the inside air quality sensor will turn on. This function will activate approximately 5 minutes after the engine has been started.

- The Outside/Inside Air Mix function will turn off when the air recirculation and outside air circulation modes are changed manually. When the Outside/Inside Air Mix function is not active, turn off and on the Forest Air™ system, the Outside/Inside Air Mix function will activate again.

Auto humidity control:

The sensor installed on the upper side of the windshield detects the temperature and humidity of the passenger compartment and the surface of the windshield, and controls the humidity of the passenger compartment to not be
over-dry or moist enough to fog the windows. Moreover, it detects potential fog before formation on the windows and operates to remove it.

- Push the “AUTO” or “ ” button (The “AUTO” or “ ” indicator light on the button will illuminate and “AUTO DEF” will appear on the display.)
- The “Auto humidity control” function will not operate if the fan speed or a vent outlet is manually adjusted. (“AUTO DEF” will disappear from the display.)
- When auto humidity control is turned off while the Forest Air™ system is on, turn off and on the Forest Air™ system, the auto humidity control will activate again.

Setting Forest Air™

1. Push the “CLIMATE” button on the instrument panel and turn the display to the “CLIMATE mode” screen.
2. Select the “Forest Air Setting” key.
   The Forest Air™ system settings screen is displayed.
- No settings, except for auto humidity control, are available unless the “ ” indicator light on the button illuminates.

Breeze Mode ON/OFF:
When this item is turned to ON, the Breeze Mode function will activate while the Forest Air™ system operates.

Fan Speed Variance:
Set the Breeze Mode fluctuation effect.
Select the “Fan Speed Variance” key and select the “High” or “Low” key setting of the Breeze Mode fluctuation effect.
Setting the fan speed to “High” allows a larger fluctuation change.

Outside/Inside Air Mix:
This item allows the user to set priority between the outside air circulation and air recirculation modes.
Select the “Outside/Inside Air Mix” key and use “ ” or “ ” key to adjust priority.
Greater priority will be given to the air recirculation mode when the indicator is closer to “ ”, and the outside air circulation mode when the indicator is closer to “ ”.

Auto Defogging Sensitivity:
This item allows the user to set the timing of the automatic defogging activation function.
Select the “Auto Defogging Sensitivity” key and select the “Slow” or “Fast” key.
When set to OFF, the automatic defogging function will turn off.
Forest Air™ system Information

The present status of the Forest Air™ system operation and the conditions of air inside and outside of the vehicle can be checked.

Push the “CLIMATE” button on the instrument panel and turn the display to the “CLIMATE mode” screen and select the “Forest Air Info” key.

1. Breeze Mode

The animation image of the Breeze Mode function is displayed.

2. The condition of outside and inside air

The present condition of air inside and outside the vehicle is indicated by color.

Blue: The air is clean.
Orange: The air is not clean.

3. Outside air circulation/Air recirculation arrow

The air flow of the outside air circulation and air recirculation functions is indicated with an arrow.

Blue arrow: The air is clean.
Orange arrow: The air is not clean.

4. Auto humidity control status

The condition of fog on the window is displayed. When the window starts to fog, the color turns white.

5. Outside air circulation/Air recirculation display

When the outside air circulation or air recirculation mode is automatically selected, either “🔧” or “🔧” is displayed. When the outside air circulation or air recirculation mode is manually selected, either “🔧” or “🔧”, and “Manual” are displayed.

Ion control

This unit generates highly concentrated Plasmacluster ion™ into the air blown from the ventilators and reduces odor absorbed into the interior trim.

When the air conditioner is turned on, the system generates Plasmacluster ion™ automatically.

The amount of Plasmacluster ion™ increases according to the amount of air flow. When the air flow is high, “🔧” is displayed on the screen and when the air flow is low, the indication in the screen changes to “🔧 clean “.

Plasmacluster™ and Plasmacluster ion™ are trademarks of Sharp Corporation.
OPERATING TIPS

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

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

Linking Intelligent Key:
The climate control system settings can be memorized for each Intelligent Key. For more details, see “SETTING MEMORY FUNCTION” in the “3. Pre-driving checks and adjustments” section.

IN-CABIN MICROFILTER

Without Forest Air™ system
The climate control system is equipped with an in-cabin microfilter which collects pollen, dirt and dust, etc. To make sure that the air conditioner heats, defogs, and ventilates efficiently, replace the filter in accordance with the maintenance schedule in the INFINITI Service and Maintenance Guide. To replace the filter, contact an INFINITI retailer.

The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioner.

With Forest Air™ system
The climate control system is equipped with a natural grape seed polyphenol filter which collects and neutralizes dirt, pollen, dust, etc. To make sure that the air conditioner heats, defogs and ventilates efficiently, replace the filter in...
accordance with the maintenance schedule in the INFINITI Service and Maintenance Guide. To replace the filter, contact an INFINITI retailer. The filter should be replaced if the air flow decreases significantly or if windows fog up easily when operating the heater or air conditioner.

SERVICING CLIMATE CONTROL

The climate control system in your INFINITI is charged with a refrigerant designed with the environment in mind. This refrigerant will not harm the earth’s ozone layer. However, special charging equipment and lubricant are required when servicing your INFINITI air conditioner. Using improper refrigerants or lubricants will cause severe damage to your climate control system. (See “CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS” in the “9. Technical and consumer information” section for climate control system refrigerant and lubricant recommendations.)

Your INFINITI retailer will be able to service your environmentally friendly climate control system.

WARNING

The system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with the proper equipment.

AUDIO SYSTEM

AUDIO OPERATION PRECAUTIONS

Radio

Push the ignition switch to the ACC or ON position and push the radio band select button to turn on the radio. If you listen to the radio with the engine not running, the ignition switch should be pushed to the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

Using a cellular phone in or near the vehicle may influence radio reception quality.

Radio reception:

Your INFINITI radio system is equipped with state-of-the-art electronic circuits to enhance radio reception. These circuits are designed to extend reception range, and to enhance the quality of that reception.

However there are some general characteristics of both FM and AM radio signals that can affect radio reception quality in a moving vehicle, even when the finest equipment is used. These characteristics are completely normal in a given reception area, and do not indicate any malfunction in your INFINITI radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

Monitor, climate, audio, phone and voice recognition systems
FM radio reception:

Range: FM range is normally limited to 25 to 30 miles (40 to 48 km), with monaural (single station) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 miles (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Static and flutter: During signal interference from buildings, large hills or due to antenna position, usually in conjunction with increased distance from the station transmitter, static or flutter can be heard. This can be reduced by lowering the treble setting to reduce the treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

AM radio reception:

AM signals, because of their low frequency, can bend around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics, AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

Satellite radio reception:

When the satellite radio is used for the first time or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with the satellite radio ON and the vehicle outside of any metal or large building for the satellite radio to receive all of the necessary data.

The satellite radio mode requires an active XM® Satellite Radio subscription. The satellite radio is not available in Alaska, Hawaii and Guam.

The satellite radio performance may be affected if cargo carried on the roof blocks the satellite radio signal.

If possible, do not put cargo near the satellite antenna.

A build up of ice on the satellite radio antenna can affect satellite radio performance. Remove the ice to restore satellite radio reception.
Compact Disc (CD) player

- Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD player.
- Trying to load a CD with the CD door closed could damage the CD and/or CD player.
- During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.
- The player may skip while driving on rough roads.
- The CD player sometimes cannot function when the passenger compartment temperature is extremely high. Decrease the temperature before use.
- Only use high quality 4.7 in (12 cm) round discs that have the “COMPACT disc DIGITAL AUDIO” logo on the disc or packaging.
- Do not expose the CD to direct sunlight.
- CDs that are of poor quality, dirty, scratched, covered with fingerprints, or that have pin holes may not work properly.
- The following CDs may not work properly:
  - Copy control compact discs (CCCD)
  - Recordable compact discs (CD-R)
  - Rewritable compact discs (CD-RW)
- Do not use the following CDs as they may cause the CD player to malfunction.
  - 3.1 in (8 cm) discs
  - CDs that are not round
  - CDs with a paper label
  - CDs that are warped, scratched, or have abnormal edges
- This audio system can only play prerecorded CDs. It has no capabilities to record or burn CDs.
- If the CD cannot be played, one of the following messages will be displayed.
  
  CHECK DISC:
  - Confirm that the CD is inserted correctly (the label side is facing up, etc.).
  - Confirm that the CD is not bent or warped and it is free of scratches.
  
  PUSH EJECT:
  This is an error due to the temperature inside the player is too high. Remove the CD by pushing the EJECT button, and after a short time reinsert the CD. The CD can be played when the temperature of the player returns to normal.
  
  UNPLAYABLE:
  The file is unplayable in this audio system (only MP3 or WMA CD).
Do not force a compact disc into the CD/DVD insert slot. This could damage the CD/DVD player.

- The player may skip while driving on rough roads.
- The CD/DVD player sometimes cannot function when the passenger compartment temperature is extremely high. Decrease the temperature before use.
- Only use high quality 4.7 in (12 cm) round discs that have the “COMPACT disc DIGITAL AUDIO” or “DVD Video” logo on the disc or packaging.
- Do not expose the CD/DVD to direct sunlight.
- CD/DVDs that are of poor quality, dirty, scratched, covered with fingerprints, or that have pinholes may not work properly.
- The following CD/DVDs are not guaranteed to play:
  - Copy control compact discs (CCCD)
  - Recordable compact discs (CD-R)
  - Rewritable compact discs (CD-RW)
  - Recordable DVDs (DVD±R, DVD±R DL)
  - Rewritable DVDs (DVD±RW, DVD±RW DL)

If the CD/DVD cannot be played, one of the following messages will be displayed.

Disc Read Error:
- Confirm that the CD/DVD is inserted correctly (the label side is facing up, etc.).
- Confirm that the CD/DVD is not bent or warped and it is free of scratches.

Please Eject Disc:
- This may be an error due to the temperature inside the player being too high. Remove the CD/DVD by pushing the EJECT button, and after a short time reinsert the CD/DVD. The CD/DVD can be played when the temperature of the player returns to

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normal. If the error persists, consult your local retailer.

Unplayable File:
- The file may be copy protected.
- The file is not MP3, WMA, AAC, M4A or DivX type.

Region Invalid:
- The DVD is not for region 1 or all regions. Use DVDs with a region code “1”, “ALL” or “1 included” for your DVD entertainment system. (The region code is displayed as a small symbol printed on the top of the DVD.) This vehicle-installed DVD player cannot play DVDs with a region code other than “1” or “ALL”.

Copyright and trademark:
- The technology protected by the U.S. patent and other intellectual property rights owned by Macrovision Corporation and other right holders is adopted for this system.
- This copyright protected technology cannot be used without a permit from Macrovision Corporation. It is limited to be personal use, etc., as long as the permit from Macrovision Corporation is not issued.
- Modifying or disassembling is prohibited.

Disc selection:
The following disc formats can be played with the DVD drive.
- DVD-VIDEO
- DVD-AUDIO
- VIDEO-CD
- CD-DA (Conventional Compact Disc)
- DTS-CD
*DVD-AUDIO may not be playable depending on the system.

Dolby digital is manufactured under license from Dolby Laboratories, Inc.
Dolby and the double D mark “” are trademarks of Dolby Laboratories, Inc.
DTS and DTS 2.0 “” are registered trademarks of DTS, Inc.
DTS and DTS Digital Surround “” are registered trademarks of Digital Theater Systems, Inc.

Parental level (parental control):
DVDs with the parental control setting can be played with this system. Please use your own judgement to set the parental control with the system.

USB (Universal Serial Bus)
This system supports various USB memory sticks, USB hard drives and iPod® players. There are some USB devices which may not be supported with this system.
- Make sure that the USB device is connected correctly into the USB connector.
- Do not force the memory stick or USB cable into the USB connector. This could damage the connector.
- During cold weather or rainy days, the player may malfunction due to humidity. If this occurs, remove the USB device and dehumidify or ventilate the USB player completely.
- The USB player sometimes cannot function when the passenger compartment temperature is extremely high. Decrease the temperature before use.
- Do not leave USB memory in a place prone to static electricity or where the air conditioner blows directly. The data in the USB memory may be damaged.
- The vehicle is not equipped with a USB memory stick.
● A USB device cannot be formatted with this system. To format a USB device, use a personal computer.
● Partitioned USB devices may not be played correctly.
● Some characters used in other languages (Chinese, Japanese, etc.) are not displayed properly on the vehicle center screen. Using English language characters with a USB device is recommended.
● Do not connect a USB device if a connector or cable is wet. Allow the cable and/or connectors to dry completely before connecting the USB device. If the connector is exposed to fluids other than water, evaporative residue may cause a short between the connector pins.
● Large video podcast files cause slow responses in an iPod®. The vehicle center display may momentarily black out, but it will soon recover.
● If an iPod® automatically selects large video podcast files while in the shuffle mode, the vehicle center display may momentarily black out, but it will soon recover.
● Audiobooks may not play in the same order as they appear on an iPod®.

● An iPod nano® (1st Generation) may remain in fast forward or rewind mode if it is connected during a seek operation. In this case, please manually reset the iPod®.
● An iPod nano® (2nd Generation) will continue to fast forward or rewind if it is disconnected during a seek operation.
● An incorrect song title may appear when the Play Mode is changed while using the iPod nano® (2nd Generation)

iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.

Compressed Audio Files (MP3/WMA/AAC)

Explanation of terms:
● MP3 — MP3 is short for Moving Pictures Experts Group Audio Layer 3. MP3 is the most well known compressed digital audio file format. This format allows for near “CD quality” sound, but at a fraction of the size of normal audio files. MP3 conversion of an audio track can reduce the file size by approximately a 10:1 ratio (Sampling: 44.1 kHz, Bit rate: 128 kbps) with virtually no perceptible loss in quality. The compression reduces certain parts of sound that seem inaudible to most people.

● WMA — Windows Media Audio (WMA) is a compressed audio format created by Microsoft as an alternative to MP3. The WMA codec offers greater file compression than the MP3 codec, enabling storage of more digital audio tracks in the same amount of space when compared to MP3s at the same level of quality.

● AAC/M4A — Advanced Audio Coding (AAC) is a lossy audio compression format. Audio files that have been encoded with AAC are generally smaller in size and deliver a higher quality of sound than 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 con-
tains 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 or trademarks of Microsoft Corporation in the United States of America and/or other countries.

Playback order:
- The folder names of folders not containing compressed audio files are not shown in the display.
- If there is a file in the top level of a disc/USB, “Root Folder” is displayed.
- The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.
- Music playback order of compressed audio files is as illustrated in the next figure.

4-50 Monitor, climate, audio, phone and voice recognition systems
### Specification chart:

<table>
<thead>
<tr>
<th>Supported media</th>
<th>CD, CD-R, CD-RW, DVD-ROM (models with navigation system), DVD±R, DVD±RW, DVD±R DL, USB2.0</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>* ISO9660 Level 3 (packet writing) is not supported.</td>
</tr>
<tr>
<td></td>
<td>* Files saved using the Live File System component (on a Windows Vista-based computer) are not supported. UDF Bridge (UDF1.02+ISO9660), UDF1.5, UDF2.0</td>
</tr>
<tr>
<td></td>
<td>* VDF1.5/VDF2.0 (packet writing) is not supported.</td>
</tr>
<tr>
<td>USB memory:</td>
<td>FAT16, FAT32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supported versions*1</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MP3</td>
<td>Version: MPEG1 Audio Layer 3</td>
</tr>
<tr>
<td></td>
<td>Sampling frequency: 8 kHz - 48 kHz</td>
</tr>
<tr>
<td></td>
<td>Bit rate: 8 kbps - 320 kbps, VBR*4</td>
</tr>
<tr>
<td>WMA*2</td>
<td>Version: WMA7, WMA8, WMA9</td>
</tr>
<tr>
<td></td>
<td>Sampling frequency: 32 kHz - 48 kHz</td>
</tr>
<tr>
<td></td>
<td>Bit rate: 32 kbps - 192 kbps, VBR*4</td>
</tr>
<tr>
<td>AAC</td>
<td>Version: MPEG-AAC</td>
</tr>
<tr>
<td></td>
<td>Sampling frequency: 8 kHz - 96 kHz</td>
</tr>
<tr>
<td></td>
<td>Bit rate: 16 kbps - 320 kbps, VBR*4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tag information (Song title and Artist name)</th>
<th>ID3 tag VER1.0, VER1.1, VER2.2, VER2.3, VER2.4 (MP3 only)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>WMA tag (WMA only)</td>
</tr>
</tbody>
</table>

---

Monitor, climate, audio, phone and voice recognition systems 4-51
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Folder levels</td>
<td>Models with navigation system: Folder levels: 8, Folders: 512 (including root folder), Files: 5,000 Models without navigation system: Folder levels: 8, Folders and files: 999 (Max. 255 files for one folder)</td>
</tr>
<tr>
<td>Text character number limitation</td>
<td>Models with navigation system: 100 characters Models without navigation system: 64 characters</td>
</tr>
<tr>
<td>Displayable character codes*3</td>
<td>01: ASCII, 02: ISO-8859-1, 03: UNICODE (UTF-16 BOM Big Endian), 04: UNICODE (UTF-16 Non-BOM Big Endian), 05: UNICODE (UTF-8), 06: UNICODE (Non-UTF-16 BOM Little Endian), 07: SHIFT-JIS</td>
</tr>
</tbody>
</table>

*1 Files created with a combination of 48 kHz sampling frequency and 64 kbps bit rate cannot be played.
*2 Protected WMA files (DRM) cannot be played.
*3 Available codes depend on what kind of media, versions and information are going to be displayed.
*4 When VBR files are played, the playback time may not be displayed correctly.

4-52  Monitor, climate, audio, phone and voice recognition systems
## Troubleshooting guide:

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause and Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cannot play</strong></td>
<td>Check if the disc or USB device was inserted correctly.</td>
</tr>
<tr>
<td></td>
<td>Check if the disc is scratched or dirty.</td>
</tr>
<tr>
<td></td>
<td>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.</td>
</tr>
<tr>
<td></td>
<td>If there is a temperature increase error, the player will play correctly after it returns to the normal temperature.</td>
</tr>
<tr>
<td></td>
<td>If there is a mixture of music CD files (CD-DA data) and compressed audio files on a CD, only the music CD files (CD-DA data) will be played.</td>
</tr>
<tr>
<td></td>
<td>Files with extensions other than “.MP3 (.mp3)”, “.WMA (.wma)”, “.AAC (.aac)”, “.M4A (.m4a)”, or “.AA3 (.aa3)” 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.</td>
</tr>
<tr>
<td></td>
<td>Check if the disc or the file is 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.</td>
</tr>
<tr>
<td></td>
<td>Check if the finalization process, such as session close and disc close, is done for the disc.</td>
</tr>
<tr>
<td>Poor sound quality</td>
<td>Check if the disc is scratched or dirty.</td>
</tr>
<tr>
<td>It takes a relatively long time</td>
<td>If there are many folder or file levels on the disc or USB device, some time may be required before the music starts playing.</td>
</tr>
<tr>
<td>before the music starts playing.</td>
<td></td>
</tr>
<tr>
<td>Music cuts off or skips</td>
<td>The writing software and hardware combination might not match, or the writing speed, writing depth, writing width, etc., might not match the specifications. Try using the slowest writing speed.</td>
</tr>
<tr>
<td>Skipping with high bit rate files</td>
<td>Skipping may occur with large quantities of data, such as for high bit rate data.</td>
</tr>
<tr>
<td>Move immediately to the next</td>
<td>If an unsupported compressed audio file has been given a supported extension like .MP3, or when play is prohibited by copyright protection, the player will skip to the next song.</td>
</tr>
<tr>
<td>song when playing.</td>
<td></td>
</tr>
</tbody>
</table>

Monitor, climate, audio, phone and voice recognition systems 4-53
<table>
<thead>
<tr>
<th>Symptom</th>
<th>Cause and Countermeasure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The songs do not play back in the desired</td>
<td>The playback order is the order in which the files were written by the writing software, so the files might not play in the desired order.</td>
</tr>
<tr>
<td>order.</td>
<td>Random/Shuffle may be active on the audio system or on a USB device.</td>
</tr>
</tbody>
</table>
Compressed Video Files (models with navigation system)

**Explanation of terms:**

- **DivX®** - DivX® refers to the DivX® codec owned by DivX, Inc. used for a lossy compression of video based on MPEG-4.

- **AVI** - AVI stands for Audio Video Interleave. It is a standard file format originated by Microsoft Corporation. A “.divx” encoded file can be saved into the “.avi” file format for playback on this system if it meets the requirements stated in the table in this section. However, not all the “.avi” files are playable on this system since different encodings can be used than the DivX® codec.

- **ASF** - ASF stands for Advanced Systems Format. It is a file format owned by Microsoft Corporation. Note: Only “.asf” files that meet the requirements stated in the table in this section can be played.

- **Bit rate** — Bit rate denotes the number of bits per second used by a digital video file. The size and quality of a compressed digital audio file is determined by the bit rate used when encoding the file.

---

Monitor, climate, audio, phone and voice recognition systems  4-55

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07/15/10—tbrooks
### Requirement for Supporting Video Playback:

<table>
<thead>
<tr>
<th>Media</th>
<th>File Systems</th>
</tr>
</thead>
<tbody>
<tr>
<td>CD, CD-R, CD-RW, DVD, DVD±R, DVD±RW, DVD±RW DL, USB 2.0 Memory</td>
<td>ISO9660 LEVEL1, ISO9660 LEVEL2, Romeo, Joliet, UDF Bridge (UDF1.02+ISO9660), UDF1.5, UDF2.0+ ISO9660 Level 3 (packet writing) is not supported.</td>
</tr>
<tr>
<td></td>
<td>- Files saved using the Live File System component (on a Windows Vista-based computer) are not supported.</td>
</tr>
<tr>
<td></td>
<td>- VDF1.5/VDF2.0 (packet writing) is not supported.</td>
</tr>
<tr>
<td>USB Memory</td>
<td>FAT16, FAT32</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>File Types</th>
<th>Video Codecs</th>
<th>Audio Codecs</th>
</tr>
</thead>
<tbody>
<tr>
<td>.divx, .avi</td>
<td>DivX3, DivX4, DivX5, DivX6</td>
<td>MP3, MPEG2.5 Audio Layer3, AC3, LPCM</td>
</tr>
<tr>
<td>.asf</td>
<td>Video Codec</td>
<td>ISO-MPEG4</td>
</tr>
<tr>
<td></td>
<td>Audio Codec</td>
<td>G.726</td>
</tr>
</tbody>
</table>

| Bit Rates | Maximum Average | 4Mbps |
|           | Maximum Peak    | 8Mbps |

| Resolution | Minimum | 32 x 32 |
|           | Maximum | 720 x 480 |

| .divx, .avi | Minimum | 32 x 32 |
| .asf        | Maximum | 720 x 576 |

### Bluetooth® Audio player (models with navigation system)

- Some Bluetooth® audio devices may not be recognized by the in-vehicle audio system.
- It is necessary to set up the wireless connection between a compatible Bluetooth® audio device and the in-vehicle Bluetooth® module before using the Bluetooth® audio player.
- Operating procedure of the Bluetooth® audio player will vary depending on the device. Make sure it is understood how to operate an audio device before using it with this system.
- The Bluetooth® audio player may be stopped under the following conditions:
  - Receiving a hands-free call.
  - Checking the connection to the hands-free phone.
- Do not place a Bluetooth® audio device in an area surrounded by metal or far away from the in-vehicle Bluetooth® module to prevent tone quality degradation and wireless connection disruption.
- While an audio device is connected through a Bluetooth® wireless connection, the battery power of the device may discharge quicker than usual.
This system supports the Bluetooth® Audio Distribution Profile (A2DP, AVRCP).

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

Music Box hard drive (models with navigation system)

**Recording:**
- Note that data that is lost and not stored to the hard disk drive due to system damage, improper operation or malfunction is not under warranty.
- Vehicle owners are not permitted to record music without permission of the owner of the copyright except for personal use.
- Check if the music is appropriately recorded to the hard disk drive after recording when the compact disc cannot be rerecorded.
- Some music cannot be recorded depending on the disc condition due to high-speed recording.
- Jumping sounds may be recorded when a compact disc is recorded while driving on rough roads and excessive vibration occurs.
- A mark indicating jumping sounds is displayed if jumping sounds are recorded.
- No sounds may be recorded if jumping sounds occurs or the disc is in poor condition.
- Tracks that include Serial Copy Management System (SCMS) are not recorded.
- If a compact disc is scratched or dirty, it may not be recorded, jumping sounds may occur or it may take a long time to record.

**Automatic title download:**
- The title information that is automatically downloaded may differ from the actual title.
- When newly released compact discs are recorded, their title information may not be downloaded.
- The title information in the hard disk can be updated. (See “Playing recorded songs” later in this section.)
1. ON-OFF/VOLUME control knob
2. Radio CAT (category)/REW (rewind) button for SEEK/TRACK
3. Radio CAT (category)/FF (fast forward) button for SEEK/TRACK
4. AM-FM radio band select button
5. XM radio band select button
6. DISC-AUX selector button
7. RDM (random) RPT (repeat) play button
8. Radio SCAN (tuning) button
9. CD EJECT button
10. Radio tuning / MP3/WMA/AAC folder selector / AUDIO control knob
11. Radio station preset buttons

No satellite radio reception is available unless an XM Satellite Radio subscription is active.

**FM-AM-SAT RADIO WITH COMPACT DISC (CD) PLAYER**

For all operation precautions, see “AUDIO OPERATION PRECAUTIONS” earlier in this section.

The satellite radio mode requires an active XM Satellite Radio subscription. The satellite radio is not available in Alaska, Hawaii and Guam.

It may take some time to receive the activation signal after subscribing the XM Satellite Radio. After receiving the activation signal, an available channel list will be automatically updated in the radio. For XM, push the ignition switch from LOCK to ACC to update the channel list.

Audio main operation

**Head unit:**

The auto loudness circuit enhances the low and high frequency ranges automatically in both radio reception and CD playback.
ON-OFF/Volume control:
Push the ignition switch to the ACC or ON position, and then push the ON-OFF button while the system is off to turn on the last audio source (i.e. FM or CD), which was playing immediately before the system was turned off. While the system is on, pushing the ON-OFF button turns the system off.

Turn the VOL control knob to adjust the volume.

Adjusting tone quality and speaker balance:
To adjust Bass, Treble, Balance and Fade, push the Audio control knob. When the display shows the setting you want to change (Bass, Treble, Balance and Fade), rotate the Audio control knob to set the desired setting. For the other setting methods, see “HOW TO USE SETTING BUTTON” earlier in this section.

This vehicle has some sound effect functions as follows:
● Speed Sensitive Vol.
● Precision Phased Audio (if so equipped)
● BOSE® Centerpoint® 2 (if so equipped)
● BOSE® AudioPilot™ 2 (if so equipped)
For more details, see “VEHICLE INFORMATION AND SETTINGS” earlier in this section.

Switching the display:
Pushing the DISC-AUX button will switch the displays as follows:
● Models with navigation system
iPod®/USB → CD/DVD → Music Box → Bluetooth® Audio → iPod®/USB
● Models without navigation system
iPod®/USB → CD → iPod®/USB

Linking Intelligent Key (models with navigation system):
The audio settings can be memorized for each Intelligent Key. For more details, see “SETTING MEMORY FUNCTION” in the “3. Pre-driving checks and adjustments” section.

FM-AM-SAT radio operation
When the radio band select button is pushed while the ignition switch is in the ACC or ON position, the radio will come on at the channel last played.
The last channel played will also come on when the ON-OFF button is pushed to ON.
If another audio source is playing when the radio band select button is turned to ON, the audio source will automatically be turned off and the last radio channel played will come on.

When the stereo broadcast signal is weak, the radio will automatically change from stereo to monaural reception.

FM • AM radio (FM-AM) band select:
Pushing the XM radio band select button will change the band as follows:
AM → FM1 → FM2 → AM

XM radio (XM) band select:
Pushing the XM radio band select button will change the band as follows:
XM1 → XM2 → XM3 → XM1
The satellite radio is not available in Alaska, Hawaii and Guam.

TUNE (Tuning):
● For AM and FM radio
Turn the radio TUNE knob for manual tuning.
● For XM Satellite Radio
Turn the radio TUNE knob to seek channels from all of the categories when any category is not selected.
SEEK tuning/CATEGORY (CAT) :

- For AM and FM radio
  Push the SEEK button ◀ or ▶ to tune from low to high or high to low frequencies and to stop at the next broadcasting station.
- For XM Satellite Radio
  Push the SEEK button ◀ or ▶ to tune to the first channel of the next or previous category.

During satellite radio reception, the following notices will be displayed under certain conditions.

- NO SIGNAL (No signal is received while the SAT tuner is connected.)
- OFF AIR (Broadcasting signed off)
- CHECK ANTENNA (Antenna connection error)
- LOADING (When the initial setting is performed)
- UPDATING (When the satellite radio subscription is not active)

SCAN tuning :

Push the SCAN tuning button to tune from low to high frequencies and stop at each broadcasting station/channel for 5 seconds. Pushing the button again during this 5 seconds period will stop SCAN tuning and the radio will remain tuned to that station/channel.

If the SCAN tuning button is not pushed within 5 seconds, SCAN tuning moves to the next station/channel.

1 to 6 Station memory operations :

- 12 stations/channels can be set for the FM band (6 each for FM1 and FM2), 18 for XM radio (6 each for XM1, XM2 and XM3) and 6 stations can be set for the AM band.
  1. Choose the radio band using the radio band select button.
  2. Tune to the desired station/channel using the TUNE, SEEK/CATEGORY or Menu-Categories feature.
  3. Push and hold the desired station preset button 1 to 6 until the radio mutes.
  4. The station indicator will then come on and the sound will resume. Memorizing is now complete.
  5. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse opens, the radio memory will be erased. In that case, reset the desired stations/channels.

Menu (XM Satellite Radio) (models with navigation system) :

When the “Menu” key on the display is selected while the XM Satellite Radio is being played, the menu list will be displayed.

The following items are available.

- Preset List
  Displays the preset channel list. If 1 of the 6 preset stations listed is touched and held, the current station will be stored as the new preset.
- Customize Channel List
  Selects specific channels to skip while using the TUNE, SEEK/CATEGORY or Menu-Categories feature.
- Favorite Artists & Songs
  Stores the current artist or song that is being played. Touch the “Alert” key to be reminded when the stored artist or song is playing on a station while listening to XM.
- Categories
  Selecting a category will go to the first channel in that category as defined by XM Radio.
Direct Tune

Inputs the channel number by using a keypad.

Text (models without navigation system):

When the “Text” key is selected with the INFINITI controller on the display and then the ENTER button is pushed while the satellite radio is being played, the text information listed below will be displayed on the screen.

- CH Name
- Category
- Name
- Title
- Other

Compact Disc (CD) player operation

Push the ignition switch to the ACC or ON position and insert the Compact Disc (CD) into the slot with the label side facing up. The CD will be guided automatically into the slot and start playing.

After loading the CD, the number of tracks on the CD and the play time will appear on the display.

If the radio is already operating, it will automatically turn off and the CD will play.

If the system has been turned off while the CD was playing, pushing the ON-OFF button will start the CD.

Do not use 3.1 in (8 cm) discs.

PLAY:

When the DISC-AUX (CD play) button is pushed with the system off and the CD loaded, the system will turn on and the CD will start to play.

When the DISC-AUX button is pushed with the CD loaded and the radio playing, the radio will automatically be turned off and the CD will start to play.

Menu (models with navigation system):

When the “Menu” key on the display is selected while the CD is being played, the menu screen will be displayed. The following menu options are available.

- Folder List (for CD with compressed audio files)
  Displays the folder list.
- Track List
  Displays the track list.

Play Mode

Select a play mode from the following items.

- Normal
- 1 Folder Repeat (for CD with compressed audio files)
- 1 Track Repeat
- 1 Disc Random
- 1 Folder Random (for CD with compressed audio files)

Record to Music Box (for CD)

Select to choose specific songs on the CD to record to the Music Box.

Title Text Priority (for CD)

Set the priority to CDDDB (Compact Disc Data Base) to acquire track information from the Gracenote Database, or set the priority to CD-TEXT to acquire the information from CDs.

Automatic Recording (for CD)

When this item is turned to ON, the Music Box hard drive automatically starts recording when a CD is inserted.

Recording Quality (for CD)

The larger number (132) will increase the recorded sound quality while taking up more
space on the Music Box leaving less room for more songs.

For the details of Music Box, see “MUSIC BOX HARD DRIVE (models with navigation system)” later in this section.

**Text (models without navigation system):**

When the “Text” key is selected in the screen using the INFINITI controller and then the ENTER button is pushed while the CD is being played, the music information below will be displayed on the screen.

**CD:**
- Disc title
- Track title

**CD with compressed audio files:**
- Folder title
- File title
- Song title
- Album title
- Artist

**Next/Previous Track and Fast Forward/Rewind:**
When the (fast forward) or (rewind) button is pushed for more than 1.5 seconds while the CD is being played, the CD will play while fast forwarding or rewinding. When the button is released, the CD will return to normal play speed.

When the (or ) button is pushed for less than 1.5 seconds while the CD is being played, the next track or the beginning of the current track on the CD will be played.

**REPEAT (RPT), RANDOM (RDM):**
When the RPT button is pushed while the CD is played, the play pattern can be changed as follows:

<table>
<thead>
<tr>
<th>(CD)</th>
<th>(CD with compressed audio files)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**CD EJECT:**
When the CD EJECT button is pushed with the CD loaded, the CD will be ejected.
When this button is pushed while the CD is being played, the CD will be ejected.
If the CD comes out and is not removed, it will be pulled back into the slot to protect it.

**DVD (Digital Versatile Disc) PLAYER OPERATION (models with navigation system):**

**Precautions**

Start the engine when using the DVD entertainment system.

Movies will not be shown on the front display while the vehicle is in any drive position to reduce driver distraction. Audio is available when a movie is played. To view movies in the front display, stop the vehicle in a safe location, move the selector lever to the P (Park) position.
WARNING

- The driver must not attempt to operate the DVD system or wear the headphones while the vehicle is in motion so that full attention may be given to vehicle operation.
- Do not attempt to modify the system to display a movie on the front screen while the vehicle is being driven. Doing so may distract the driver and may cause a collision and serious personal injury or death.

CAUTION

- Only operate the DVD while the vehicle engine is running. Operating the DVD for extended periods of time with the engine OFF can discharge the vehicle battery.
- Do not allow the system to get wet. Excessive moisture such as spilled liquids may cause the system to malfunction.
- While playing VIDEO-CD media, this DVD player does not guarantee complete functionality of all VIDEO-CD formats.

Display settings

To adjust the front display mode, push the SETTING button while the DVD is being played, select the “Others” key and then select the “Display” key.

To adjust the display ON/OFF, brightness, tint, color and contrast, select the “Display Adjustment” key and then select each key.

Then you can adjust each item using the INFINITI controller. After changes have been made push the BACK button to save the setting.

Playing a DVD

DISC-AUX button:

Park the vehicle in a safe location for the front seat occupants to operate the DVD drive while watching the images.

Push the DISC-AUX button on the instrument panel and turn the display to the DVD mode.

When a DVD is loaded, it will be replayed automatically.

The operation screen will be turned on when the DISC-AUX button located on the instrument panel is pushed while a DVD is being played.
and it will turn off automatically after a period of time. To turn it on again, push the DISC-AUX button again.

**DVD operation keys:**

When the DVD is playing without the operation screen being shown, you may use the touch screen to select items from the displayed video. You may also use the INFINITI controller to select an item from the displayed video. When the operation screen is being shown, use the INFINITI controller or touch screen to select an item from the displayed menus.

<table>
<thead>
<tr>
<th>PAUSE:</th>
<th>PLAY:</th>
<th>STOP:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select the “II” key to pause the DVD. To resume playing the DVD, use the “PLAY” key.</td>
<td>Select the “►” key to start playing the DVD, for example, after pausing the DVD.</td>
<td>Select the “■” key to stop playing the DVD.</td>
</tr>
</tbody>
</table>

**Next/Previous Chapter:**

Select the “►►” or “◄◄” key to skip the chapter(s) of the disc forward/backward. The chapters will advance/go back the number of times this key is selected.

**Commercial Skip:**

This function is only for DVD-VIDEO, DVD-VR. Select the “►►” or “◄◄” key to skip forward or backwards by the set amount as defined in the DVD Settings menu.

**Next/Previous Image:**

This function is only for DVD-AUDIO. Select the “►►” or “◄◄” key to advance or rewind the still image. The still image will advance or rewind the number of times this key is selected.

*DVD-AUDIO may not be playable depending on the system.

**Top Menu:**

When the “Top Menu” key is selected in the screen while a DVD is being played, the top menu specific to each disc will be displayed. For details, see the instructions on the disc.

**DVD settings**

Select the “Settings” key to adjust the following settings.

*DVD-AUDIO may not be playable depending on the system.

**Key (DVD-VIDEO, DVD-AUDIO):**

Keys for the DVD menu operation are displayed.

- Move the cursor to select a DVD menu.
- Enter: Enter the selected menu.
- Move: Change the display location by moving the operation key.
- Back: Return to the previous screen.
Hide: Hide the operation key.

Title Menu (DVD-VIDEO):
Some menus specific to each disc will be shown. For details, see the instructions on the disc.

Title Search (DVD-VIDEO, DVD-VR):
The scene with the specified title will be displayed each time the “+” side or “−” side is selected.

Group Search (DVD-AUDIO, VIDEO CD):
A scene in the specified group will be displayed each time the “+” side or “−” side is selected.

10 Key Search (DVD-VIDEO, VIDEO-CD, CD-DA, DVD-VR):
Select the “10 Key Search” key to open the number entry screen. Input the number to be searched and select the “OK” key. The specified Title/Chapter or Group/Track will be played.

Select No. (VIDEO-CD):
Select the “Select No.” key to open the number entry screen. Input the number to be searched and select the “OK” key. The specified scene will be played.

Angle (DVD-VIDEO):
If the DVD contains different angles (such as moving images), the current image angle can be switched to another one. Select the “Angle” key. The angle will change each time the “+” side or “−” side is selected.

Angle Mark (DVD-VIDEO):
When this item is turned on, an angle mark will be shown on the bottom of the screen if the scene can be seen from a different angle.

Menu Skip (DVD-VIDEO):
DVD menus are automatically configured and the contents will be played directly when the “Menu Skip” key is turned on. Note that some discs may not be played directly even if this item is turned on.

CM Skip (DVD-VIDEO):
Select the “CM Skip” key. Choose the setting time from 15, 30 or 60 seconds by selecting the “+” side or “−” side.

DRC (DVD-VIDEO, DVD-VR):
DRC (Dynamic Range Compression) automatically adjusts the soundtrack volume level to maintain a more even sound to the speakers.

DVD Language (DVD-VIDEO, VIDEO-CD):
Select the “DVD Language” key to open the number entry screen. Input the number corresponding to the preferred language and select the “OK” key. The DVD top menu language will be changed to the one specified.

Display:
To adjust the image quality of the screen, select the preferred adjustment items.

Audio:
Select the preferred language for audio.

Subtitle (DVD-VIDEO, DVD-VR):
Select the preferred language for subtitles.

Display Mode (DVD-VIDEO, VIDEO-CD, DVD-VR):
Select from the “Full”, “Wide”, “Normal” or “Cinema” modes.

Title List (DVD-VR):
Select the preferred title from the list.

Play Mode:
Select the preferred play mode.

PG/PL Mode (DVD-VR):
Select the “PG” or “PL” mode.
USB INPUT OPERATION

Audio main operation

Open the console lid and connect a USB memory. Then, push the DISC-AUX button repeatedly to switch to the USB memory mode.

If the system has been turned off while the USB memory was playing, pushing the ON-OFF/VOL control knob will start the USB memory.

File selection (models with navigation system)

When there are both audio and movie files in the USB memory, the mode select screen is displayed. Select the preferred contents to play.

When there is only one type of file, the audio or movie operation screen is displayed and starts to play.

If a video file restricts the number of playbacks, a pop-up screen will appear to confirm it is ok to play. Answer yes or no as requested by the display.

4-66 Monitor, climate, audio, phone and voice recognition systems
Audio file operation

PLAY:
When the DISC-AUX button is pushed with the system off and the USB memory inserted, the system will turn on.

If another audio source is playing and a USB memory is inserted, push the DISC-AUX button repeatedly until the center display changes to the USB memory mode.

Next/Previous File and Fast Forward/Rewind:
When the "<<" (Rewind) or ">>" (Fast Forward) button is pushed for more than 1.5 seconds while a USB memory is being played, the USB memory will play while forwarding or rewinding. When the button is released, the USB memory will return to normal play speed.

When the ">>" or "<<" button is pushed for less than 1.5 seconds while the USB memory is being played, the next track or the beginning of the current track on the USB memory will be played.

The INFINITI controller can also be used to select tracks when the USB memory is being played.

Folder selection:
To change to another folder in the USB memory, turn the folder selector or choose a folder displayed on the screen using the INFINITI controller.

REPEAT (RPT), RANDOM (RDM):
When the RPT button is pushed while the USB memory is played, the play pattern can be change as follows.

To change the play mode, push the RPT button repeatedly and the mode will change as follows.
Normal → 1 Folder Repeat → 1 Track Repeat → All Random → 1 Folder Random → Normal

Text (models without navigation system):
When the "Text" key is selected on the screen using the INFINITI controller and then the ENTER button is pushed while a USB memory is being played, the music information listed below will be displayed on the screen.

- Folder title
- File title
- Song title
- Album Title
- Artist

Menu (models with navigation system):
There are some options available during playback. Select one of the following options that are displayed on the screen if necessary. Refer to the following information for each item.

- Movie Playback
  Switch to the movie playback mode. This item is displayed only when a USB memory contains movie files.

- Folder List/Track List
  Displays the folder or track list. The "Movie Playback" key is also displayed in this list screen, and enables switching to the movie playback mode.

Monitor, climate, audio, phone and voice recognition systems 4-67
Play Mode
Select the preferred play mode.

Movie file operation (models with navigation system)

Park the vehicle in a safe location for the front seat occupants to operate the USB memory while watching the images.

PLAY:

When the DISC-AUX button is pushed with the system off and the USB memory inserted, the system will turn on.

If another audio source is playing and a USB memory is inserted, push the DISC-AUX button repeatedly until the center display changes to the USB memory mode.

Operation keys:

To operate the USB memory, select the desired key displayed on the operation screen using the INFINITI controller.

Pause
Select the “Pause” key to pause the movie file. To resume playing the movie file, select the “Play” key.

Play
Select the “Play” key to start playing a movie file, for example, after pausing a movie file.

STOP
Select the “STOP” key to stop playing a movie file.

Skip (Next chapter)
Select the “Skip (Next chapter)” key to skip the chapter(s) of the disc forward. The chapters will advance the number of times the ENTER button is pushed.
Skip (Previous chapter)

Select the "►◄" key to skip the chapter(s) of the disc backward. The chapters will go back the number of times the "►◄" key is selected.

List:

Select the “List” key on the movie file operation screen to display the file list.

Settings:

Select the “Settings” key to adjust the following settings.

- **Audio File Playback**
  Switch to the audio playback mode. This item is displayed only when the USB memory contains the audio files.

- **Play Mode**
  Select the “Normal” or “1 Track Repeat” play mode.

- **10 Key Search**
  Select the “10 Key Search” key to open the number entry screen.
  Input the number to be searched and select the “OK” key.
  The specified folder/file will be played.

- **Display**
  To adjust the image quality of the screen, select the preferred adjustment items.

- **DRC**
  DRC (Dynamic Range Compression) automatically adjusts the soundtrack volume level to maintain a more even sound to the speakers.

- **Audio**
  Select the preferred language for audio.

- **Subtitle**
  Select the preferred language for subtitle.

- **Display Mode**
  Select the “Normal”, “Wide”, “Cinema” or “Full” mode.
BLUETOOTH® STREAMING AUDIO
(models with navigation system)

Your INFINITI is equipped with Bluetooth® Streaming Audio. If you have a compatible Bluetooth® device with streaming audio (A2DP profile), you can set up the wireless connection between your Bluetooth® device and the in-vehicle audio system. This connection allows you to listen to the audio from the Bluetooth® device using your vehicle speakers. It also may allow basic control of the device for playing and skipping audio files using the AVRCP Bluetooth® profile. All Bluetooth® Devices do not have the same level of controls for AVRCP. Please consult the manual for your Bluetooth® Device for more details.

Once your Bluetooth® device is connected to the in-vehicle audio system, it will automatically reconnect whenever the device is present in the vehicle and you select Bluetooth® Audio from your audio system. You do not need to manually reconnect for each usage.

Regulatory information

FCC Regulatory information :
- CAUTION: To maintain compliance with FCC’s RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.
- Operation is subject to the following two conditions:
  1) This device may not cause interference and
  2) This device must accept any interference, including interference that may cause undesired operation of the device.

IC Regulatory information :
- Operation is subject to the following two conditions:
  1) This device may not cause interference, and
  2) This device must accept any interference, including interference that may cause undesired operation of the device.
- This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Bluetooth trademark:

Connecting procedure
1. Push the SETTING button and select the “Bluetooth” key.

Bluetooth® is a trademark owned by Bluetooth SIG, Inc. and licensed to Clarion Co., Ltd.
2. Select the “Connect Bluetooth” key.

3. A confirmation screen will be displayed. Select “No”.
   Note: Selecting “Yes” will only connect the hands free phone portion of a Bluetooth® device.

4. Choose a PIN code to use with the compatible Bluetooth® audio device using the number input screen. The PIN code will need to be entered into the Bluetooth® audio device after step 5. Select the “OK” key.
5. The standby message screen will appear. Operate the compatible Bluetooth® audio device. For the connecting procedure of the audio device, see the Bluetooth® audio instructions.

When the connecting is completed, the screen will return to the Bluetooth® setup display.

Audio main operation

Push the ignition switch to the ACC or ON position. Then, push the DISC-AUX button repeatedly to switch to the Bluetooth® audio mode. If the system has been turned off while the Bluetooth® audio device was playing, pushing the ON-OFF/VOL control knob will start the Bluetooth® audio device.

The ability to pause, change tracks, fast forward, rewind, randomize and repeat music may be different between devices. Some or all of these functions may not be supported on each device.

DISC-AUX button:

When the DISC-AUX button is pushed with the system off and the Bluetooth® audio device connected, the system will turn on. If another audio source is playing and the Bluetooth® audio device is connected, push the DISC-AUX button repeatedly until the display changes to the Bluetooth® audio mode.

Next/Previous Track and Fast Forward/Rewind:

When the ►► or ◄◄ button is pushed for more than 1.5 seconds while a Bluetooth® audio file is being played, the Bluetooth® audio device will play while forwarding or rewinding. When the button is released, the Bluetooth® audio device will return to normal play speed.

When the ►► or ◄◄ button is pushed for less than 1.5 seconds while a Bluetooth® audio file is being played, the next track or the beginning of the current track on the Bluetooth® audio device will be played. The INFINITI controller can also be used to select tracks when the Bluetooth® audio play mode screen is shown on the display. (“Bluetooth audio” will be indicated on the header of the screen.)
**REPEAT (RPT), RANDOM (RDM):**

To change the play mode, push the button repeatedly and the mode changes as follows.

Normal → Shuffle All Tracks → Shuffle Group → Repeat 1 Track → Repeat All Tracks → Repeat Group → Normal

**Operation keys:**

To operate a Bluetooth® audio device, select a key displayed on the operation screen using the INFINITI controller.

![Play](image)

Select the “►” key to start playing when pausing. Select this key again to pause the audio play.

![Pause](image)

Select the “II” key to pause the Bluetooth® audio device. Select this key again to resume playing.

**Play Mode:**

The play mode setting display will appear when the “Menu” key is selected.

Choose the preferred play mode from the following items.

- **Shuffle**
  - Choose “Shuffle OFF”, “Shuffle All Tracks” and “Shuffle Group”.
- **Repeat**
  - Choose from “Repeat OFF”, “Repeat 1 Track”, “Repeat All Tracks” and “Repeat Group”.

**Bluetooth® settings**

To set up the Bluetooth® device system to the preferred settings, push the SETTING button and select the “Bluetooth” key.

**Bluetooth:**

If this setting is turned off, the connection between the Bluetooth® devices and the in-vehicle Bluetooth® module will be canceled.

**Connect Bluetooth:**

Connects to the Bluetooth® device. See “Connecting procedure” earlier in this section. Up to 5 devices can be registered.

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Monitor, climate, audio, phone and voice recognition systems 4-73
Connected Devices:
Registered devices are shown on the list. Select a Bluetooth® device from the list, the following options will be available.

- **Select**
  Select “Select” to connect the selected device to the vehicle. If there is a different device currently connected, the selected device will replace the current device.

- **Edit**
  Rename the selected Bluetooth® device using the keypad displayed on the screen. (See “HOW TO USE TOUCH SCREEN (models with navigation system)” earlier in this section.)

- **Delete**
  Delete the selected Bluetooth® device.

Edit Bluetooth Info:
Change the name broadcasted by this system over Bluetooth®. Change the PIN code that is entered when connecting a hands free device to this system.

Replace Connected Phone:
Replace the Bluetooth® connection with a connected Bluetooth® cellular phone. For details about Hands-Free Phone System, see “BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)” later in this section.

IPOD® PLAYER OPERATION

Connecting iPod®
Open the console lid and connect the iPod® cable to the USB connector. If compatible, the battery of the iPod® is charged while the connection to the vehicle.

Depending on the version of the iPod®, the display on the iPod® shows an INFINITI or Accessory Attached screen when the connection is completed. When the iPod® is connected to the vehicle, the iPod® music library can only be operated by the vehicle audio controls.

* iPod® is a trademark of Apple Inc., registered in the U.S. and other countries.
Compatibility

The following models are available:

Models with navigation system:
- Fifth generation iPod® (version 1.2.3 or later)
- iPod Classic® (version 1.1.1 or later)
- First generation iPod touch® (version 2.0.0 or later)
- Second generation iPod touch® (firmware version 1.2.3 or later)
- First generation iPod nano® (firmware version 1.3.1 or later)
- Second generation iPod nano® (firmware version 1.1.3 or later)
- Third generation iPod nano® (firmware version 1.1 PC)
- Fourth generation iPod nano® (firmware version 1.0.2 or later)

Models without navigation system:
- Fifth generation iPod® (firmware version 1.3)
- First generation iPod Classic® (firmware version 1.1.2 PC)
- Second generation iPod Classic® (firmware version 2.0 PC)
- First generation iPod touch® (firmware version 2.1)
- Second generation iPod touch® (firmware version 2.1.1)
- First generation iPod nano® (firmware version 1.3.1)
- Second generation iPod nano® (firmware version 1.1.3)
- Third generation iPod nano® (firmware version 1.1 PC)

Make sure that the iPod® version is updated.

Audio main operation

Push the ignition switch to the ACC or ON position. Then, push the DISC·AUX button repeatedly to switch to the iPod® mode.

If the system has been turned off while the iPod® was playing, pushing the ON-OFF button will start the iPod®.

PLAY:

When the DISC-AUX button is pushed with the system off and the iPod® connected, the system will turn on. If another audio source is playing and the iPod® is connected, push the DISC-AUX button repeatedly until the center display changes to the iPod® mode.

Interface:

The interface for iPod® operation shown on the vehicle center display is similar to the iPod® interface. Use the INFINITI controller and the ENTER or BACK button to play the iPod® with your favorite settings.

The following items can be chosen from the menu list screen. For further information about each item, see the iPod® Owner’s Manual.
- Now Playing
- Playlists
- Artists
- Albums
- Songs
- Podcasts
- Genres
- Composers
- Audiobooks
- Shuffle Songs

The following touch-panel buttons shown on the screen are also available:

- MENU: returns to the previous screen.
- ▶️ ‼️: plays/pauses the music selected.

Monitor, climate, audio, phone and voice recognition systems  4-75
**Next/Previous Track and Fast Forward/Rewind:**

When the ▶ or ◀ button is pushed for more than 1.5 seconds while the iPod® is playing, the iPod® will play while fast forwarding or rewinding. When the button is released, the iPod® will return to the normal play speed.

When the ▶ or ◀ button is pushed for less than 1.5 seconds while the iPod® is playing, the next track or the beginning of the current track on the iPod® will be played.

The INFINITI controller can also be used to select tracks when the iPod® is playing.

**REPEAT (RPT), RANDOM (RDM):**

When the RPT button is pushed while a track is being played, the play pattern can be changed as follows:

- Repeat Off
- Repeat One
- Repeat All
- Random

**MUSIC BOX HARD DRIVE (models with navigation system):**

The Music Box hard drive audio system can store songs from CDs being played. The system has a 9.3 gigabyte (GB) storage capacity.

The following CDs can be recorded in the Music Box hard drive audio system:
- CDs that contain uncompressed audio files
- Hybrid Compact Disc Digital Audio (Hybrid CD-DA) specification in Super Audio CDs
- Compact Disc Digital Audio (CD-DA) specification in CD-Extras
- First session of multisession disc

**Extrme temperature conditions [below −4°F (−20°C) and above 158°F (70°C)] could affect the performance of the hard drive.**

**NOTE:**

If the hard drive needs to be replaced due to a malfunction, all stored music data will be erased.

**Recording CDs:**

1. Operate the audio system to play a CD. For the details of playing CDs, see "Compact Disc (CD) player operation" earlier in this section.

2. Select the "Start REC" key.

**NOTE:**

- The system starts playing and recording the 1st track on the CD when the “Start REC” key is selected.
- The recording process can be stopped at any time. All tracks that were played before the CD was stopped are stored.
- Individual tracks can be deleted from the hard drive after the CD is recorded.
- The order of the tracks may not be changed while recording.

If the title information of the track being recorded is stored either in the hard drive or in the CD, the title is automatically displayed on the screen. For title acquisition from the hard drive, music recognition technology and related data are provided by Gracenote®.

If a track is not recorded successfully due to skipping sounds, the mark is displayed behind the track number.

The Music Box hard drive cannot perform recording under the following conditions.
- There is not enough space in the hard drive.
- The number of albums reaches the maximum of 500.
- The number of tracks reaches the maximum of 3,000.

**Automatic recording:**
If the “Automatic Recording” function is turned to ON, recording starts when a CD is inserted. (See “Music Box settings” later in this section.)

**Stopping recording:**
To stop the recording, select the “Stop REC” key button by touching the screen or using the INFINITI controller.

If the CD is ejected, the audio system is turned off or the ignition switch is pushed to the OFF position, the recording also stops.
Playing recorded songs

Select the Music Box audio system by using one of the following methods.

- Push the audio source switch on the steering wheel repeatedly until the center display changes to the Music Box mode. (See “STEERING-WHEEL-MOUNTED CONTROLS FOR AUDIO” later in this section.)
- Push the DISC-AUX button repeatedly until the center display changes to the Music Box mode.
- Give voice commands. (See “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section.)

Stopping playback:
The system stops playing when:

a. another mode (radio, CD, DVD, USB memory or iPod) is selected.
b. the audio system is turned off.
c. the ignition switch is pushed to the LOCK position.

Next/Previous Track and Fast Forward/Rewind:

When the (fast forward) or (rewind) button is pushed for more than 1.5 seconds while a track is being played, the track will play while fast forwarding or rewinding. When the button is released, the track will return to the normal play speed.

When the or button is pushed for less than 1.5 seconds while a track is being played, the next track or the beginning of the current track will be played.

The INFINITI controller can also be used to select tracks when a track is being played.

Play mode selection:
The TUNE/FOLDER knob will skip from album to album unless it is playing “All Songs” from the Music Library menu. When playing “All Songs”, the knob will change the track instead of the album. The upper right corner of the main screen will indicate if the TUNE knob is changing by track or album.

REPEAT (RPT), RANDOM (RDM):

When the RPT-RDM button is pushed while a track is being played, the play pattern can be changed as follows:

(Normal) → 1 Album Repeat → 1 Track Repeat → 1 Album Random → All Random → (Normal)

Tag Track:

Select “Tag Track” key on the screen when a track is being played. A menu will show the 5 available playlists. Select one of the playlists to add the current song to that playlist. If a playlist is not selectable (text is grayed out), it means the song already exists in that playlist.
There are some options available by selecting the “Menu” key on the screen during playback. Select one of the following options that are displayed on the screen if necessary.

**Now Playing:**
Displays a track list to choose a preferred track for playback.

**Music Library:**
There are some options available during playback. Select one of the following options that are displayed on the screen if necessary.

- **Artists**
  Play tracks by an artist whose music is currently being played. The artists are sorted in alphabetical order.

- **Albums**
  Play tracks in each album. The albums are sorted in alphabetical order.

- **All Songs**
  Play tracks from all recorded tracks. The tracks are sorted in alphabetical order.

- **Genres**
  Play tracks by a selected genre.

**My Playlists:**
Displays the Playlist and edits the Playlist if necessary.
Select the “Edit” key.
The following items are available

- **Add Current Songs**
  Add a current track to the Playlist.

- **Add Songs by Album**
  Displays a list of albums in alphabetical order. Selecting an album displays all of the tracks in the album. Select tracks from the list to add to the Playlist.

- **Add Songs by Artist**
  Displays a list of artists in alphabetical order. Selecting an artist displays all of the tracks by the artist. Select tracks from the list to add to the Playlist.

- **Edit Songs Order**
  Reorder the tracks in the Playlist by selecting a track and specifying the order.

- **Edit Name**
  Edit the name of the Playlist using the keypad displayed on the screen. (See “HOW TO USE INFINITI CONTROLLER” earlier in this section.)

- **Delete Songs**
  Delete tracks in the Playlist by selecting from the displayed song list.

**Play Mode:**
Choose the preferred play mode from the following items.

- **Normal**
- **1 Album Repeat**
- **1 Track Repeat**
- **1 Playlist Random**
- **1 Artist Random**
- **1 Album Random**
Edit Music Information:
Displays the following information about the Music Box hard drive to edit if necessary.

- **Edit Information of Current Song**
  Edit the “Track”, “Artist” and “Genre” information of the current track using the keypad displayed on the screen. (See “HOW TO USE TOUCH SCREEN (models with navigation system)” earlier in this section.)
  Edit the “Mode” information by selecting from the list.

- **Edit Information by Album**
  Edit the displayed name and of a selected album and the track information in the album.

- **Update Gracenote from USB Device**

- **Transfer Missing Titles to USB**
  Transfer the information of an album recorded without titles to a USB memory. Visit www.InfinitiUSA.com/music-update/ for details.

- **Update Gracenote from HDD**
  Search the title using the database in the hard disk.

Music Box settings
To set the Music box hard drive to your preferred settings, select the “Menu” key during playback, and the “Music Box Settings” key with the INFINITI controller, and then push the ENTER button.

**Music Box Used/Free Space**:
Information about “Saved Album”, “Saved Track” and “Remaining Time” is displayed.

**Automatic Recording**:
When this item is turned to ON, the Music Box hard drive automatically starts recording when a CD is inserted.
Delete Songs from Music Box:
Deletes the current song, selected songs or albums by choosing from the list, or all songs/albums in the Music Box.

Recording Quality:
Set the recording quality of 105 kbps or 132 kbps. The default is set to 105 kbps.

CDDDB Version:
The version of the built-in Gracenote Database is displayed.

Gracenote

NOTE:
- The information contained in the Gracenote Database is not fully guaranteed.
- The service of the Gracenote Database on the Internet may be stopped without prior notice for maintenance.

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CD/DVD/USB MEMORY CARE AND CLEANING

CD/DVD
- Handle a CD/DVD by its edges. Never touch the surface of the disc. Do not bend the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.

Do not use a conventional record cleaner or alcohol intended for industrial use.

Monitor, climate, audio, phone and voice recognition systems
A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.

**USB memory**

- Never touch the terminal portion of the USB memory.
- Do not place heavy objects on the USB memory.
- Do not store the USB memory in highly humid locations.
- Do not expose the USB memory to direct sunlight.
- Do not spill any liquids on the USB memory.

Refer to the USB memory Owner's Manual for the details.

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1. Audio source switch
2. Menu control switch (models with navigation system) or audio tuning switch (models without navigation system)
3. Back switch
4. Volume control switch

**STEERING-WHEEL-MOUNTED CONTROLS FOR AUDIO**

**Menu control switch (models with navigation system) or audio tuning switch (models without navigation system)**

While the display is showing a MAP (navigation systems only), STATUS or Audio screen, tilt the switch upward or downward to select a station, track, CD or folder. For most audio sources, tilting the switch up/down for more than 1.5 seconds provides a different function than tilting up/down for less than 1.5 seconds.

**AM and FM radio**:

- Tilting up/down for less than 1.5 seconds will increase or decrease the preset station.
- Tilting up/down for more than 1.5 seconds will seek up or down to the next station.
Pushing the menu control switch (models with navigation system) will show the list of preset stations.

**XM Satellite Radio:**
- Tilting up/down for less than 1.5 seconds will increase or decrease the preset channel.
- Tilting up/down for more than 1.5 seconds will go to the next or previous category.
- Pushing the menu control switch (models with navigation system) will show the XM Menu.

**iPod:**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will skip to the next or previous index.
- Pushing the menu control switch will show the iPod Menu.

**CD:**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase/decrease the folder number (if playing compressed audio files).

**DVD (models with navigation system):**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase or decrease the title number.
- Pushing the menu control switch will select an item from the DVD display.
- When the transparent operation menu appears, the switch will control the menu.

**USB:**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase/decrease the folder number.
- Pushing the menu control switch will show the USB Menu.

**Music Box (models with navigation system):**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.
- Tilting up/down for more than 1.5 seconds will increase/decrease the album (folder) number (if playing compressed audio files).

**Bluetooth® Audio (models with navigation system):**
- Tilting up/down for less than 1.5 seconds will increase or decrease the track number.

**BACK switch (models with navigation system):**
Push this switch to go back to the previous screen or cancel the selection if it is not completed.

**Volume control switches**
Push the upper (+) or lower (−) side switch to increase or decrease the volume.

**Audio source switch**
Push the audio source switch to change the mode as follows.
- Models with navigation system
  AM → FM → SAT → CD/DVD → Music Box → USB/iPod® → Bluetooth® Audio
- Models without navigation system
  AM → FM → CD → USB/iPod® → SAT

---

*Monitor, climate, audio, phone and voice recognition systems*
ANTENNA
Window antenna
The antenna pattern is printed inside the rear window.

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

WARNING
- A cellular telephone should not be used while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular telephones while driving.
- If you must make a call while your vehicle is in motion, the hands-free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.
- If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.

CAR PHONE OR CB RADIO
When installing a car phone or a CB radio in your INFINITI, be sure to observe the following cautions, otherwise the new equipment may adversely affect the electronic control modules and electronic control system harness.

CAUTION
- Keep the antenna as far away as possible from the electronic control modules.
- Keep the antenna wire more than 8 in (20 cm) away from the electronic control system harness. Do not route the antenna wire next to any harness.
- Adjust the antenna standing-wave ratio as recommended by the manufacturer.
- Connect the ground wire from the CB radio chassis to the body.
- For details, consult an INFINITI retailer.
BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)

**WARNING**

- Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.
- If you find yourself unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle before doing so.

**CAUTION**

To avoid draining the vehicle battery, use a phone after starting the engine.

Your INFINITI is equipped with Bluetooth® Hands-Free Phone System. If you are an owner of a compatible Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a telephone call with your cellular phone in your pocket.

Once a cellular phone is connected to the in-vehicle phone module, no phone connecting procedure is required anymore. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is pushed to the ON position with the registered cellular phone turned on and carried in the vehicle.

You can register up to 5 different Bluetooth® cellular phones in the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

The INFINITI Voice Recognition system supports the phone commands, so dialing a phone number using your voice is possible. For more details, see “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section; page 4-109.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

- Set up the wireless connection between a compatible cellular phone and the in-vehicle phone module before using the Bluetooth® Hands-Free Phone System.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.InfinitiUSA.com/bluetooth for a recommended phone list.
- You will not be able to use a hands-free phone under the following conditions:
  - Your vehicle is outside of the telephone service area.
  - Your vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, behind a tall building or in a mountainous area.
  - Your cellular phone is locked in order not to be dialed.
- When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person's voice during a call.
- Immediately after the ignition switch is pushed to the ON position, it may be impossible to receive a call for a short period of time.
- Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.
- While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual.
• If the Bluetooth® Hands-Free Phone System seems to be malfunctioning, please visit www.InfinitiUSA.com/bluetooth for troubleshooting help.

• Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

• Refer to the cellular phone Owner’s Manual regarding the telephone pairing procedure specific to your phone, battery charging, cellular phone antenna, etc.

• The antenna display on the monitor will not coincide with the antenna display of some cellular phones.

• Keep the interior of the vehicle as quiet as possible to hear the caller’s voice clearly as well as to minimize its echoes.

• If reception between callers is unclear, adjusting the incoming or outgoing call volume may improve the clarity.

REGULATORY INFORMATION

FCC Regulatory information

– CAUTION: To maintain compliance with FCC’s RF exposure guidelines, use only the supplied antenna. Unauthorized antenna, modification, or attachments could damage the transmitter and may violate FCC regulations.

– Operation is subject to the following two conditions:

1) this device may not cause interference and

2) this device must accept any interference, including interference that may cause undesired operation of the device

IC Regulatory information

– Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

– This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Voice Commands

You can use voice commands to operate various Bluetooth® Hands-Free Phone System features using the INFINITI Voice Recognition system.

For more details, see “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section; page 4-109.
CONTROL BUTTONS

1 PHONE SEND button

CONNECTING PROCEDURE

1. Push the button, and select the “Connect Phone” key.

2. When a PIN code appears on the screen, operate the compatible Bluetooth® cellular phone to enter the PIN code.

The connecting procedure of the cellular phone varies according to each cellular phone. See the cellular phone Owner's Manual for the details. You can also visit www.InfinitiUSA.com/bluetooth or call INFINITI Consumer Affairs Department for instructions on pairing INFINITI recommended cellular phones.

When the connection process is completed, the screen will return to the Phone menu display.
PHONE SELECTION

Up to 5 cellular phones can be registered to the system. To switch to connect another cellular phone, push the "button and select the "Connected Phones" key. The registered cellular phones are shown on the list. If you select a cellular phone that is different from the one currently connected, the newly selected phone will be connected to the system.

VEHICLE PHONEBOOK

This vehicle has two phonebooks available for hands-free use. Depending on the phone, the system may automatically download the entire cell phone's phonebook into the "Handset Phonebook". For the details about downloading a phonebook, see "PHONE SETTING" later in this section. If a phonebook does not automatically download, the vehicle phonebook may be set for up to 40 entries. This phonebook allows the recording of a name to speak while using voice recognition.

1. Push the "button and select the "Vehicle Phonebook" key.
2. Select the “Add New” key at the top of the screen.
3. Choose the method for entering the phonebook entry. For this example, select “Enter Number by Keypad”.
4. Enter the digits and select the “OK” key. (See “HOW TO USE TOUCH SCREEN (models with navigation system)” earlier in this section.)
5. Select the “Voicetag” key to record a name to speak when using the INFINITI Voice Recognition system.

6. Select the “Store” key and prepare to speak the name after the tone.

7. When the voicetag is successfully saved, select the “OK” key to save the phonebook entry.

8. After the phonebook entry is saved, it will show a screen that is ready to call the number. Press the BACK button to return to the Vehicle Phonebook.

There are different methods to input a phone number. Select one of the following options instead of “Enter Number by Keypad” in step 3.

- **Copy from Call History**
  The system will show a list of incoming, outgoing or missed calls that were downloaded from the connected cellular phone (depending on the phone’s compatibility). Select one of these entries to save in the vehicle phonebook.

- **Copy from the Handset**
  The system will show the connected cellular phone’s phonebook that was downloaded (depending on the phone’s compatibility). Select one of these entries to save in the vehicle phonebook.

**Editing the Vehicle Phonebook**

1. Push the button and select the “Vehicle Phonebook” key.
2. Select the desired entry from the displayed list.
3. Select the “Edit” key.
4. Select the desired item to change.

---

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The following editing items are available:

- **Entry #**
  Changes the displayed number of the selected entry.

- **Name**
  Edit the name of the entry using the keypad displayed on the screen.

- **Number**
  Edit the phone number using the keypad displayed on the screen.

- **Type**
  Select an icon from the icon list.

- **Voicetag**
  Confirm and store the voicetag. Voicetags allow easy dialing using the INFINITI Voice Recognition system. (See “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section.)

To delete an entry, select the “Delete” key at step 3.

**MAKING A CALL**

To make a call, follow this procedure.

1. Push the button on the steering wheel. The “PHONE” screen will appear on the display.
2. Select the “Handset Phonebook” key on the “PHONE” menu.
3. Select the desired entry from the list.
4. Confirm the correct entry by selecting for the correct number from the list.
5. Select the “Call” key to start dialing the number.

There are different methods to make a call. Select one of the following options instead of “Handset Phonebook” in step 2 above.

- **Vehicle Phonebook**
  Select an entry stored in the Vehicle’s Phonebook.

- **Call History**
  Select an outgoing, incoming or missed call downloaded from your cell phone (depending on your phone’s compatibility).

- **Dial Number**
  Input the phone number manually using the keypad displayed on the screen. (See “HOW TO USE TOUCH SCREEN (models with navigation system)” earlier in this section.)

**RECEIVING A CALL**

When you hear a phone ring, the display will change to the incoming call mode. To receive a call, perform one of the following procedures listed below.

a) Select the “Answer” key.

b) Push the button on the steering wheel.

There are some options available when receiving a call. Select one of the following displayed on the screen.

- **Answer**
  Accept an incoming call to talk.
• **Hold Call**
  Put an incoming call on hold.

• **Reject Call**
  Reject an incoming call.
  To finish the call, perform one of the following procedures listed below.
  a) Select the “Hang up” key.
  b) Push the button on the steering wheel.

**DURING A CALL**

There are some options available during a call. Select one of the following displayed on the screen if necessary.

• **Hang up**
  Finish the call.

• **Use Handset**
  Transfer the call to the cellular phone.

• **Mute**
  Mute your voice to the person.

• **Keypad**
  Using the touch tone, send digits to the connected party for using services such as voicemail.

• **Cancel Mute**
  This will appear after “Mute” is selected. Mute will be canceled.
  To adjust the person’s voice to be louder or quieter, push the volume control switch (+ or −) on the steering wheel or turn the volume control knob on the instrument panel while talking on the phone. This adjustment is also available in the SETTING mode.
PHONE SETTING

To set up the Bluetooth® Hands-Free Phone System to your preferred settings, push the SETTING button on the instrument panel and select the “PHONE” key.

Edit Vehicle Phonebook

To edit the vehicle phonebook, use the same procedure as described in “VEHICLE PHONEBOOK” earlier in this section.

Delete Phonebook

The vehicle phonebook entries can be deleted all at the same time or one by one.

Download Handset Phonebook

Download the contacts registered in a Bluetooth® cellular phone. Availability of this function depends on each cellular phone. The memory downloading procedure from the cellular phone also varies according to each cellular phone. See cellular phone Owner’s Manual for details.

When “Auto Download” is active, the system will automatically re-download the entries registered in the phone everytime it is paired with the vehicle, even after you delete the entries from your vehicle’s Handset Memory.

Volume

The following kinds of phone volume can be set. Pushing the button and selecting the “Volume” key can also operate the same settings.

- **Ringtone/Incoming Call/Outgoing Call**
  To increase or decrease the volume, select the “Ringtone”, “Incoming Call” or “Outgoing Call” key and adjust it with the INFINITI controller.

- **Automatic Hold**
  When this function is activated, an incoming phone call is automatically held.

- **Vehicle Ringtone**
  When this function is activated, a specific ringtone that is different from the cellular phone will sound when receiving a call.

Auto Download

When this item is activated, the phonebook of a hands-free phone is automatically downloaded at the same time that the hands-free phone is connected.

When this item is active, the system will automatically re-download the entries registered in the connected phone even if you attempt to delete the entries.
TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, try the following solutions.

Where the solutions are listed by number, try each solution in turn, starting with number 1, until the problem is resolved.

<table>
<thead>
<tr>
<th>Symptom</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>System fails to interpret the command correctly.</td>
<td>1. Ensure that the command is valid. (See “INFINITI VOICE RECOGNITION SYSTEM (models with navigation system)” later in this section; page 4-109.)</td>
</tr>
<tr>
<td></td>
<td>2. Ensure that the command is spoken after the tone.</td>
</tr>
<tr>
<td></td>
<td>3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.</td>
</tr>
<tr>
<td></td>
<td>4. Ensure that the ambient noise level is not excessive (for example, windows open or defroster on). NOTE: If it is too noisy to use the phone, it is likely that the voice commands will not be recognized.</td>
</tr>
<tr>
<td></td>
<td>5. If more than one command was said at a time, try saying the commands separately.</td>
</tr>
<tr>
<td>The system consistently selects the wrong voicetag.</td>
<td>1. Ensure that the voicetag requested matches what was originally stored. (See “VEHICLE PHONEBOOK” earlier in this section.)</td>
</tr>
<tr>
<td></td>
<td>2. Replace one of the names being confused with a new name.</td>
</tr>
</tbody>
</table>

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WARNING

● Use a phone after stopping your vehicle in a safe location. If you have to use a phone while driving, exercise extreme caution at all times so full attention may be given to vehicle operation.
● If you find yourself unable to devote full attention to vehicle operation while talking on the phone, pull off the road to a safe location and stop your vehicle before doing so.

CAUTION

To avoid draining the vehicle battery, use a phone after starting the engine.

Your vehicle is equipped with Bluetooth® Hands-Free Phone System. If you are an owner of a Bluetooth® enabled cellular phone, you can set up the wireless connection between your cellular phone and the in-vehicle phone module. With Bluetooth® wireless technology, you can make or receive a telephone call with your cellular phone in your pocket.

Once your cellular phone is paired to the in-vehicle phone module, no phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is pushed to the “ON” position with the registered cellular phone turned on and carried in the vehicle.

You can register up to 5 different Bluetooth® cellular phones in the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

When a call is active, the audio system and microphone (located in the ceiling in front of the rearview mirror) are used for the handsfree communications.

If the audio system is being used at the time, the audio mode will mute and will stay muted until the active call is ended.

The INFINITI Voice Recognition system supports the phone commands, so dialing a phone number using your voice is possible.

Before using the Bluetooth® Hands-Free Phone System, refer to the following notes.

● Set up the wireless connection between a cellular phone and the in-vehicle phone module before using the Bluetooth® Hands-Free Phone System.

● Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module.

● You will not be able to use a hands-free phone under the following conditions:
  – Your vehicle is outside of the telephone service area.
  – Your vehicle is in an area where it is difficult to receive radio waves; such as in a tunnel, in an underground parking garage, behind a tall building or in a mountainous area.
  – Your cellular phone is locked in order not to be dialed.

● When the radio wave condition is not ideal or ambient sound is too loud, it may be difficult to hear the other person’s voice during a call.

● Immediately after the ignition switch is pushed to the “ON” position, it may be impossible to receive a call for a short period of time.

● Do not place the cellular phone in an area surrounded by metal or far away from the in-vehicle phone module to prevent tone quality degradation and wireless connection disruption.

● While a cellular phone is connected through the Bluetooth® wireless connection, the battery power of the cellular phone may discharge quicker than usual.
● If the Bluetooth® Hands-Free Phone System seems to be malfunctioning, please contact an INFINITI retailer.

● Some cellular phones or other devices may cause interference or a buzzing noise to come from the audio system speakers. Storing the device in a different location may reduce or eliminate the noise.

● Refer to the cellular phone Owner’s Manual regarding the telephone pairing procedure specific to your phone, battery charging, cellular phone antenna, etc.

● The antenna display on the monitor will not coincide with the antenna display of some cellular phones.

● Keep the interior of the vehicle as quiet as possible to hear the caller’s voice clearly as well as to minimize its echoes.

● If reception between callers is unclear, adjusting the incoming or outgoing call volume may improve the clarity.

● This wireless hands free car kit is based on Bluetooth® technology,
  - Frequency: 2402 MHz - 2480 MHz
  - Output Power: 4.14 dBm E.I.R.P
  - Modulation: FHSS GFSK 8DPSK, π/4DQPSK
  - Number of Channel: 79
  - This wireless equipment can’t be used for any services related to safety because there is the possibility of radio interference.

REGULATORY INFORMATION

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

CONTROL BUTTONS

1. PHONE SEND button
   Push the button to initiate a VR session or answer an incoming call. You can also use the button to skip through system feedback and to enter commands during a call.

2. PHONE END button
   Push the button to cancel a VR session or end a call.
VOICE RECOGNITION SYSTEM

You can also use the Bluetooth® hands-free phone system with Voice Recognition System.

INFO

- The available voice commands are only applicable to the relevant language set in the LANGUAGE setting screen. (See “HOW TO USE SETTING BUTTON” earlier in this section.)
- If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Using system

Initialization:

When the ignition switch is pushed to the ON position, Voice Recognition System is initialized, which takes a few seconds. When completed, the system is ready to accept voice commands. If the switch on the steering wheel is pushed before the initialization completes, the system will not accept any command.

Before starting:

To get the best performance out of the Voice Recognition System, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing the voice commands correctly.
- Wait until a tone sounds before speaking a command.
- Speak a voice command within 5 seconds after the beep sound. If no voice command is given, the system will ask you for a number. If no further command is given, the session ends.
- Speak in a natural voice without pausing between words.

Giving voice command:

1. Push and release the switch located on the steering wheel.

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2. A list of commands appears on the screen, and the system announces, “Please say a command after the beep. Available commands are: Call, Phonebook, Recent Calls, Connect Phone or Help.”

3. After the tone sounds and the icon on the screen changes from $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$ to $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$, speak a command. See the “List of voice commands” later in this section for the voice command list. Speak “Call” for example.

INFO

Voice commands cannot be recognized as long as the screen icon is not in the command recognition mode $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$.

4. The system acknowledges the command and announces the next set of available commands.

5. After the tone sounds, speak the phone number.

6. When you have finished speaking the phone number, the system repeats it back and announces the available commands.

7. After system responds, speak “Dial” and the system dials the spoken numbers.

Operating tips:

- Voice commands cannot be accepted when the icon is $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$.

- If the command is not recognized, the system announces, “Please say again”. Repeat the command in a clear voice.

- Push the $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$ switch or the BACK button once to return to the previous screen.

- If you want to cancel the command, push the $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$ switch. The message “Voice input is canceled” will be announced. If you want to adjust the volume of the system feedback, push the volume control buttons $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$ or $\begin{array}{|c|c|c|}
\hline
\text{Call} & \text{Phonebook} & \text{Recent Calls} \\
\hline
\text{Connect Phone} & \text{Help} \\
\hline
\end{array}$ on the steering wheel or use the audio system volume knob while the system is making an announcement.

How to speak commands:

The Voice Recognition System requires a certain way to speak voice commands. Speak normally and clearly in the direction of the microphone (located in front of the rearview mirror). Every digit of the number must be spoken individually and in a normal manner. The hands-free mode will work best when the telephone number is spoken in blocks of three to five digits. After each spoken block is terminated, the system will repeat the three to five digits and wait for you to speak the next digit or block of digits required for the telephone number.

See “List of voice commands” later in this section for the appropriate commands that can be spoken for the hands-free mode system.

Example:

In order to initiate a call, speak “Phonebook”.

INFO

- If you are controlling the telephone system by voice command for the first time or do not know the appropriate voice command, speak "Voice input is canceled".
“Help”. The system announces the available commands.

- When you speak numbers, you can speak both “zero” or “oh” for “0”.

**Personal vocabulary (voicetags):**
Voice Recognition System is equipped with the function called “voicetags”, which can be associated with the phone number and name in the phonebook. Using the voice tag will automatically generate a speed dial to the registered number.

See “PHONEBOOK REGISTRATION” earlier in this section.

You can call the identified number using the following command: “Dial” followed by the voice tag.

**Dialling a name with a voice tag:**
It is possible to call up a name via a voice tag instead of a number, provided the name and number of your correspondent has been previously stored in the phonebook.

Dial via a voice tag, according to the following procedure.

1. Push the \( \text{ } \) switch.
2. The system replies “please say a command after the beep. Available commands are: Call, Phonebook, Recent Calls, Connect Phone or Help”.
3. Give your instructions to the system by saying: “Dial John” for example (“John” must have been previously set as a voice tag for John’s phone number) or “Dial One” if John is classified as one in the phonebook.

If the system cannot understand your command, repeat it according to the recommendations mentioned in “How to speak commands” earlier in this section.

4. If the given name (voice tag) is correct, the phone system will dial the number registered for “John”.

**INFO**
To end the voice command phase at any stage of the procedure, push the \( \text{ } \) switch once in order to activate the cancel command.

**Manual command selection:**
Commands can be selected manually. While the commands are displayed on the screen, select a command by operating the Tune switch, and then push the \( \text{ } \) button. Once a command is manually selected, the voice command function is cancelled. To return to voice command mode, push the \( \text{ } \) button to cancel the current operation, and then perform the first procedure of voice command.
List of voice commands:

<table>
<thead>
<tr>
<th>COMMAND</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>“Call/Dial” “&lt;name&gt;”</td>
<td>Dials the specified &lt;name&gt;.</td>
</tr>
<tr>
<td>“Call/Dial” “Redial”</td>
<td>Dials the last number.</td>
</tr>
<tr>
<td>“Call” “&lt;number&gt;”</td>
<td>Dials the specified &lt;number&gt;.</td>
</tr>
<tr>
<td>“Phonebook” “&lt;name&gt;”</td>
<td>Displays the specified &lt;name&gt; in the phonebook.</td>
</tr>
<tr>
<td>“Phonebook” “List Names”</td>
<td>Displays all the names in the phonebook.</td>
</tr>
<tr>
<td>“Phonebook” “Transfer Entry”</td>
<td>Transfers the phonebook data to the system.</td>
</tr>
<tr>
<td>“Phonebook” “Delete Entry”</td>
<td>Deletes the phonebook registered in the system.</td>
</tr>
<tr>
<td>“Connect Phone” “Software Version”</td>
<td>Displays the software version of the system to be connected.</td>
</tr>
<tr>
<td>“Connect Phone” “Add Phone”</td>
<td>Connects a cellular phone to the system.</td>
</tr>
<tr>
<td>“Connect Phone” “Select Phone”</td>
<td>Selects a registered cellular phone.</td>
</tr>
<tr>
<td>“Connect Phone” “Delete Phone”</td>
<td>Deletes a registered cellular phone.</td>
</tr>
<tr>
<td>“Connect Phone” “Bluetooth Off”</td>
<td>Turns the Bluetooth® connection off.</td>
</tr>
<tr>
<td>“Connect Phone” “Replace Phone”</td>
<td>Changes the registered order of the cellular phones.</td>
</tr>
<tr>
<td>“Connect Phone” “Delete Phone” “All Phones”</td>
<td>Deletes all registered cellular phones.</td>
</tr>
<tr>
<td>“Connect Phone” “Delete Phone” “List Phones”</td>
<td>Selects a registered cellular phone and deletes it.</td>
</tr>
</tbody>
</table>
PAIRING PROCEDURE

Up to 5 cellular phones can be registered.

1. Push the $\psi, c$ button on the steering wheel. The system announces the available commands.

2. Speak: “Connect Phone”. The system acknowledges the command and announces the next set of available commands.

3. Speak: “Add Phone”. The system acknowledges the command and asks you to initiate connecting from the phone handset.

   INFO:
   The Add Phone command is not available when the vehicle is moving.

4. When asked to enter a PIN code to connect a Bluetooth® cellular phone, enter the code “1234”.

   The code is always “1234” regardless of the number of phones paired.

   The connecting procedure of a cellular phone varies according to each cellular phone. See the cellular phone Owner's Manual for more information.
5. The system asks the user to speak a name for the phone.

   Speak: “Yes”. The system acknowledges the command and registers the cellular phone.

   If the name is too long or too short, the system tells the user, then prompts the user for a name again.

   Also, if more than one phone is connected and the name sounds too much like a name already used, the system tells the user, then prompts the user for name again.

PHONEBOOK REGISTRATION

When the cellular phone is connected to the in-vehicle module, the data stored in the cellular phone such as phonebook, outgoing call logs, incoming call logs and missed call logs is automatically transferred and registered to the system.

The availability of this function depends on each cellular phone. The copying procedure also varies according to each cellular phone. See cellular phone Owner's Manual for more information.

Up to 1,000 phone numbers per registered cellular phone can be stored in the phonebook.

MAKING A CALL

To make a call, follow the procedures below.

1. Push the \( \text{\textasciitilde} \) button on the steering wheel. A tone will sound.
2. Speak: “Call”. The system acknowledges the command and announces the next set of available commands.
3. Speak the registered person's name. The system acknowledges the command and announces the next set of available commands.
4. Speak: “Yes”. The system acknowledges the command and makes the call.
5. Once the call has ended, press the \( \text{\textasciitilde} \) button on the steering wheel.

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RECEIVING A CALL

When the ring tone is heard, press the button on the steering wheel.

Once the call has ended, press the button on the steering wheel.

NOTE:

To reject a call when the ring tone is heard, press the button on the steering wheel.

DURING A CALL

During a call there are several command options available. Press the " button on the steering wheel to mute the receiving voice and enter commands.

● “(digits)” — Use the Send command to enter numbers during a call. For example, if directed to dial an extension by an automated system:
  Speak: “Sending one two three four.”

  The system acknowledges the command and sends the tones associated with the numbers. The system then ends the VR session and returns to the call.

● “Mute on/off” — Use the Mute command to mute the user’s voice so the other party cannot hear it.

  Use the mute command again to unmute the user’s voice.

● “Transfer Handset” — Use the Transfer Handset command to transfer the call from the Bluetooth® Hands-Free Phone System to a cellular phone when privacy is desired. The system announces, “Transfer Handset. The call is transferred to the handset only.” The system then ends the VR session.

  The Transfer Call command can also be issued again to return to a hands-free call through the vehicle.

● “Help” — The system announces the available commands.

NOTE:

If the other party ends the call or the cellular phone network connection is lost while the Mute feature is on, the Mute feature may need to be reset to “off.”
PHONE SETTINGS

Call

- (a name)

If there are entries stored in the Phone Book, a number associated with a name and location can be dialed. See “Phone book registration” in this section to learn how to store entries. When prompted by the system, say the name of the phone book entry to call. The system acknowledges the name. If there are multiple locations associated with the name, the system asks the user to choose the location.

Once the name and location are confirmed, the system begins the call.

- Number

When prompted by the system, speak the number to call.

- Redial

Use the Redial command to call the last number of outgoing calls. The system acknowledges the command, repeats the number and begins dialing. If a redial number does not exist, the system announces, “There is no number to redial” and ends the VR session.

- Callback

Use the Callback command to call the last number in incoming calls. The system acknowledges the command, repeats the number and begins dialing. If an incoming call number does not exist, the system announces, “There is no number to call back” and ends the VR session.

- Help

The system announces the available commands.

Phonebook

- (a name)

Use the name command to seek the name and locations registered in the phonebook in alphabetical order. When the system acknowledges the alphabet the user spoke, the system announces all registered names and locations beginning with that alphabet. Playback of the list can be stopped at any time by pressing a button on the steering wheel. The system ends the VR session.

- List Names

Use the List Names command to hear the names and locations registered in the phonebook. When the system acknowledges
the command, the system announces all
voicetags registered in the system.
Playback of the list can be stopped at any
time by pressing a button on the steering
wheel. The system ends the VR session.

- **Transfer Entry**
  Use the Transfer Entry command to transfer
  the phonebook data stored in a cellular
  phone to the system.
  The system acknowledges the command and
  asks the user to initiate a transfer from the
  phone handset. The new contact phone
  number will be transferred from the cellular
  phone via a Bluetooth® communication link.
  The transfer procedure varies according to
  each cellular phone. See the cellular phone
  Owner’s Manual for more information. The
  system repeats the number and prompts the
  user for the next command. After entering
  numbers, choose “Store.”
  The system confirms the name, location and
  number. The system then asks if the user
  would like to store another location for the
  same name. If the user does not wish to
  store another location, the system ends the
  VR session.

- **Delete Entry**
  Use the Delete Entry command to delete a
  specific number or all numbers in the phone-
  book. The system announces the names of
  the phone numbers already stored in the
  system. The system then gives the option to
delete a specific number or all numbers.
  Once the user chooses to delete a number or
  all numbers, the system asks the user to
  confirm.

- **Help**
  The system announces the available com-
  mands.

**Recent Calls**

- **Incoming**
  Use the Incoming command to make a call
  viewing the list of incoming calls.

- **Missed**
  Use the Missed command to make a call
  viewing the list of missed calls.

- **Outgoing**
  Use the Outgoing command to make a call
  viewing the list of outgoing calls.

- **Redial**
  Use the Redial command to dial the last
  outgoing call.
 Callback
Use the Callback command to dial the last incoming call.

 Help
The system announces the available commands.

 Connect Phone

 * Add Phone
Use the Pair Phone command to connect a compatible phone to the Bluetooth® Hands-Free Phone System.

 When asked to enter a PIN code to connect a Bluetooth® cellular phone, enter the code “1234”.

 The code is always “1234” regardless of the number of phones connected. Up to 5 phones can be connected. If the user tries to connect a sixth phone, the system announces that the user must first delete one phone or replace an existing phone. If the user tries to connect a phone that has already been connected to the vehicle system, the system announces the name that the phone is already using. The connecting procedure will then be cancelled.

 The Add Phone command is not available when the vehicle is moving.

 * Select Phone
Use the Select Phone command to select a phone of lesser priority when two or more phones connected with Bluetooth® Hands-Free Phone System are in the vehicle at the same time.

 The system asks the user to name the phone and confirm the selection.

 Once the selection is confirmed, the selected phone remains active until the ignition switch is turned OFF or a new phone is selected.

 * Delete Phone
Use the Delete Phone command to delete a specific phone or all phones from Bluetooth® Hands-Free Phone System. The system announces the names of the phones already paired with the system and their priority level. The system then gives the option to delete a specific phone, all phones or listen to the list again. Once the user chooses to delete a phone or all phones, the system asks the user to confirm.
NOTE:
When the user deletes a phone, the associated phone book for that phone will also be deleted.

- **Replace Phone**
  Use the Replace Phone command to change the priority level of the active phone.
  The priority level determines which phone is active when more than one paired Bluetooth® phone is in the vehicle.
  The system states the priority level of the active phone and asks for a new priority level (1, 2, 3, 4, 5).
  If the new priority level is already being used for another phone, the two phones will swap priority levels.

For example, if the current priority levels are:
- Priority Level 1 = Phone A
- Priority Level 2 = Phone B
- Priority Level 3 = Phone C

and you change the priority level of Phone C to Level 1, then:
- Priority Level 1 = Phone C
- Priority Level 2 = Phone B
- Priority Level 3 = Phone A

- **Bluetooth On/Off**
  Use the Bluetooth On/Off command to turn on/off Bluetooth® Hands-Free Phone System.

- **Help**
  The system announces the available commands.

**VOICE ADAPTATION MODE**

The Voice Adaptation mode allows up to two users with different dialects to train the system to improve recognition accuracy. By repeating a number of commands, the users can create a voice model of their own voice that is stored in the system. The system is capable of storing a different voice adaptation model for each connected phone.

**Training procedure**

1. Position the vehicle in a reasonably quiet outdoor location.
2. Sit in the driver's seat with the engine running, the parking brake on, and the transmission in Park.
3. Press the button.
4. Speak: “Help”. The system acknowledges the command and announces the next set of available commands.
5. Speak: “Voice Adaptation”. The system acknowledges the command and displays the voice adaptation mode screen.
6. Voice memory A or memory B is selected automatically. If both memory locations are already in use, the system will prompt you to overwrite one. Follow the instructions provided by the system.
7. When preparation is complete and you are ready to begin, press the button.
8. The voice adaptation mode will be explained. Follow the instructions provided by the system.
9. When training is finished, the system will tell you an adequate number of phrases have been recorded.
10. The system will ask you to say your name. Follow the instructions to register your name.
11. The system will announce that voice adaptation has been completed and the system is ready.

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The voice adaptation mode will stop if:

- The button is pressed in voice adaptation mode.
- The vehicle is driven during voice adaptation mode.
- The ignition switch is turned to the OFF or LOCK position.

INFINITI Voice Recognition allows hands-free operation of the Phone, Navigation, Information and Audio systems in one of two modes, Standard Mode or Alternate Command Mode.

In Standard Mode, commands that are available are always shown on the display and announced by the system. You can complete your desired operation by simply following the prompts given by the system. (See "INFINITI VOICE RECOGNITION STANDARD MODE" later in this section for details.)

For advanced operation, you can use the Alternate Command Mode. (See "INFINITI VOICE RECOGNITION ALTERNATE COMMAND MODE" later in this section for details.) When this mode is active, an expanded list of commands can be spoken after pushing the TALK switch, and the voice command menu prompts are turned off. Review the expanded command list, which is available when this mode is active. Note that in this mode the recognition success rate may be affected as the number of available commands and the ways of speaking each command are increased.

To switch one mode to another, see each mode description later in this section.

To improve the recognition success rate when Alternate Command Mode is active, try using the Speaker Adaptation Function available in that mode. Otherwise, it is recommended that Alternate Command Mode be turned off and Standard Mode be used for the best recognition performance.

For the voice commands for the navigation system, refer to the Navigation System Owner's Manual of your vehicle.

INFINITI VOICE RECOGNITION STANDARD MODE

The following section is applicable when the Standard Mode is activated.

The Standard Mode enables you to complete the desired operation by simply following the prompts that appear on the display and also are announced by the system.
Activating Standard Mode

When the Alternate Command Mode is active, perform the following steps to switch to the Standard Mode.

1. Push the SETTING button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.
4. Select the “Alternate Command Mode” key.
5. The indicator turns off and the Standard Mode activates.

Displaying user guide

If you use the INFINITI Voice Recognition system for the first time or you do not know how to operate it, you can display the User Guide for confirmation.

You can confirm how to use voice commands by accessing a simplified User Guide, which contains basic instructions and tutorials for several voice commands.

1. Push the INFO button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.
5. Select a preferred item.

You can skip steps 1 and 3 above if you say “Help”.

Available items:

- Getting Started
  Describes the basics of how to operate the INFINITI Voice Recognition system.

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Let's Practice
Mode that allows practicing by following the instructions of the system voice.

Using the Address Book
Tutorial for entering a destination by using the Address Book.

Finding a Street Address (if so equipped)
Tutorial for entering a destination by street address.

Placing Calls
Tutorial for making a phone call by voice command operation.

Help on Speaking
Displays useful tips of speaking for correct command recognition by the system.

Note that the Command List feature is only available when Alternate Command Mode is active.

Getting Started
Before using the INFINITI Voice Recognition system for the first time, you can confirm how to use commands by viewing the Getting Started section of the User Guide.
1. Select the “Getting Started” key.
2. You can confirm the page by scrolling the screen using the INFINITI controller.

Tutorials on the operation of the INFINITI Voice Recognition system
If you choose “Using the Address Book”, “Finding a Street Address” or “Placing Calls”, you can view tutorials on how to perform these operations using INFINITI Voice Recognition.

Let's Practice
This mode helps learn how to use the INFINITI Voice Recognition system.
1. Select the “Let's Practice” key.
2. After the message screen appears, push the TALK switch on the steering wheel.
3. Speak the displayed number after the tone. The evaluation screen will be displayed and the result can be confirmed.
Useful tips for correct operation

You can display useful speaking tips to help the system recognize your voice commands correctly.

Select “Help on Speaking” to start display.

USING THE SYSTEM

Initialization

When the ignition switch is pushed to the ON position, INFINITI Voice Recognition is initialized, which can take up to one minute. When completed, the system is ready to accept voice commands. If the TALK switch is pushed before the initialization completes, the display will show the message: “Phonetic data downloaded. Please wait.” or a beep sounds.

Before starting

To get the best recognition performance from INFINITI Voice Recognition, observe the following:

● The interior of the vehicle should be as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noise and vibration sounds, etc.), which may prevent the system from correctly recognizing the voice commands.

● Wait until the tone sounds before speaking a command.

● Speak in a natural conversational voice without pausing between words.

● If the air conditioner is set to “Auto”, the fan speed is automatically lowered so that your commands can be recognized more easily.
Giving voice commands

1. Push the TALK switch located on the steering wheel.

2. A list of commands appears on the screen, and the system announces, “Would you like to access Phone, Navigation, Information, Audio or Help?”.

3. After the tone sounds and the icon on the screen changes from to , speak a command.

Selecting the “Practice” key will start the practice mode. See “Let’s Practice” earlier in this section.

4. Continue to follow the voice menu prompts and speak after the tone sounds until your desired operation is completed.

Selecting the “Help” key can display the detailed information of the each command.

Operating tips:

- Say a command after the tone.
- Commands that are available are always shown on the display and spoken through voice menu prompts. Commands other than those that are displayed are not accepted. Please follow the prompts given by the system.
- If the command is not recognized, the system announces, “Please say again”. Repeat the command in a clear voice.
- Push the BACK button once to return to the previous screen.
- To exit the voice recognition system, push and hold the TALK switch. The message, “Voice canceled” will be announced.
- To skip the voice guidance function and give the command immediately, press the TALK switch to interrupt the system. Remember to speak after the tone.
- If you want to adjust the volume of the system feedback, push the volume control buttons [+] or [-] on the steering switch or use the audio system volume knob while the system is making an announcement.

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How to speak numbers:

INFINITI Voice Recognition requires a certain way to speak numbers when giving voice commands. Refer to the following examples.

General rule
Only single digits 0 (zero) to 9 can be used. (For example, if you would like to say 500, “five zero zero” can be used, but “five hundred” cannot.)

Examples
- 1-800-662-6200
- “One eight zero zero six six two six two zero zero”

Improving Recognition of Phone numbers

You can improve the recognition of phone numbers by saying the phone number in three groups of numbers. For example, when you try to call 800-662-6200, say “eight zero zero” first, and the system will then ask you for the next three digits. Then, say “six six two”. After recognition, the system will then ask for the last four digits. Say, “six two zero zero”. Using this method of phone digit entry can improve recognition performance.

When speaking a house number, speak the number “0” as “zero”. If the letter “o (Oh)” is included in the house number, it will not be recognized as the number “0 (zero)” even if you speak “oh” instead of “zero”. Please speak “zero” for the number “0 (zero)”, “oh” for the letter “o (oh)”
## Command List

### Category Command:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phone</td>
<td>Operates the Phone function</td>
</tr>
<tr>
<td>Navigation</td>
<td>Operates the Navigation function</td>
</tr>
<tr>
<td>Information</td>
<td>Displays the vehicle Information function</td>
</tr>
<tr>
<td>Audio</td>
<td>Operates the Audio function.</td>
</tr>
<tr>
<td>Help</td>
<td>Displays User Guide</td>
</tr>
</tbody>
</table>

### Phone Command:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dial Number</td>
<td>Makes a call to a spoken phone number up to 10 digits.</td>
</tr>
<tr>
<td>Vehicle Phonebook</td>
<td>Makes a call to a contact that is stored in the Vehicle Phonebook.</td>
</tr>
<tr>
<td>Handset Phonebook</td>
<td>Makes a call to a contact that is stored in the mobile phone.</td>
</tr>
<tr>
<td>Call history</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Incoming Calls</td>
<td>Makes a call to the incoming call number.</td>
</tr>
<tr>
<td>Outgoing Calls</td>
<td>Makes a call to the dialed number.</td>
</tr>
<tr>
<td>Missed Calls</td>
<td>Makes a call to the Missed calls number.</td>
</tr>
<tr>
<td>International Call</td>
<td>Makes an international call by allowing more than 10 digits to be spoken.</td>
</tr>
<tr>
<td>Change Number</td>
<td>Corrects the recognized phone number (available during phone number entry).</td>
</tr>
</tbody>
</table>

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### Navigation Command:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Sets a route to your home that is stored in the Address Book.</td>
</tr>
<tr>
<td>Address</td>
<td>Searches for a location by the street address specified, and sets a route to the location.</td>
</tr>
<tr>
<td>Places</td>
<td>Sets a route to a facility near the current vehicle location.</td>
</tr>
<tr>
<td>Address Book</td>
<td>Searches for stored information in the Address Book.</td>
</tr>
<tr>
<td>Previous Destinations</td>
<td>Sets a route to a previous destination.</td>
</tr>
</tbody>
</table>

### Information Command:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Economy</td>
<td>Displays fuel economy information.</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Displays maintenance information.</td>
</tr>
<tr>
<td>Traffic Information</td>
<td>Turns the traffic information system ON and OFF.</td>
</tr>
<tr>
<td>Where am I?</td>
<td>Displays your current location.</td>
</tr>
</tbody>
</table>

### Audio Command:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>AM</td>
<td>Turns to the AM band, selecting the station last played.</td>
</tr>
<tr>
<td>FM</td>
<td>Turns to the FM band, selecting the station last played.</td>
</tr>
<tr>
<td>XM</td>
<td>Turns to the XM Satellite band, selecting the channel last played.</td>
</tr>
<tr>
<td>Music Box</td>
<td>Turns on the &quot;Music Box&quot; hard drive audio system.</td>
</tr>
<tr>
<td>CD</td>
<td>Starts to play a CD.</td>
</tr>
</tbody>
</table>

Monitor, climate, audio, phone and voice recognition systems
## General Commands

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go back</td>
<td>Corrects the last recognition result to return to the previous screen</td>
</tr>
<tr>
<td>Exit</td>
<td>Cancels Voice Recognition</td>
</tr>
</tbody>
</table>

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Voice command examples

To use the INFINITI Voice Recognition function, speaking one command is sometimes sufficient, but at other times it is necessary to speak two or more commands. As examples, some additional basic operations by voice commands are described here.

For navigation system commands, see the separate Navigation System Owner's Manual.

Example 1 - Placing a call to the phone number 800-662-6200:

1. Push the TALK switch located on the steering wheel.
2. The system announces, “Would you like to access Phone, Navigation, Information, Audio or Help?”
3. Speak “Phone”.

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4. Speak “Dial Number”.

5. Speak “8 0 0”.

Selecting the “Manual Controls” key switches the screen to the keypad to input the phone number manually.

6. The system announces, “Please say the next three digits or dial, or say change number.”

7. Speak “6 6 2”.

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8. The system announces, “Please say the last four digits” or say change number.
9. Speak “6 2 0 0”.
10. The system announces, “Dial or Change Number?”
11. Speak “Dial”.
12. The system makes a call to 800-662-6200.

Note:
- You can only say a phone number using the 3-3-4 grouping, 7 digits, and 10 digits using this command. Please use the “International Call” command for all other formats.
- If you say “Change Number” during phone number entry, the system will automatically request that you repeat the number using the 3-3-4 format. In this case please say the area code first and then follow the prompts.
- Do not add a “1” in front of the area code when speaking phone numbers.
- If the system does not recognize your command, please try repeating the command using a natural voice. Speaking too slow or too loudly may further decrease recognition performance.

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Example 2 - Placing an international call to the phone number 011-81-111-222-3333:

1. Push the TALK switch located on the steering wheel.

2. The system announces, “Would you like to access Phone, Navigation, Information, Audio or Help?”

3. Speak “Phone”.

4. Speak “International Call”.

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5. Speak “011811112223333”.

6. Speak “Dial”.

7. System makes a call to 011-81-111-222-3333.

Note:

Any digit input format is available in the International Number input process.

INFINITI VOICE RECOGNITION
ALTERNATE COMMAND MODE

The following section is applicable when Alternate Command Mode is activated.

When Alternate Command Mode is activated, an expanded list of commands can be used after pressing the TALK switch. In this mode, available commands are not fully shown on the display or prompted. Review the expanded command list when this mode is active. See examples of Alternate Command Mode screens.

Please note that in this mode the recognition success rate may be affected as the number of available commands and ways of speaking each command are increased. To improve the recognition success rate, try using the Speaker Adaptation Function available in that mode. (See “Speaker adaptation function (for Alternate Command Mode)” later in this section.) Otherwise it is recommended that Alternate Command Mode be turned OFF and Standard Mode be used for the best recognition performance.
Activating Alternate Command Mode

When the Standard Mode is active, perform the following steps to switch to the Alternate Command Mode.

1. Push the SETTING button on the instrument panel.
2. Highlight the "Others" key.
3. Highlight the "Voice Recognition" key.
4. Highlight the "Alternate Command Mode" key.
5. The confirmation message is displayed on the screen. Push the "OK" key to activate the Alternate Command Mode.

Displaying command list

If you are controlling the system by voice commands for the first time or do not know the appropriate voice command, perform the following procedure for displaying the voice command list (available only in Alternate Command Mode).

1. Push the INFO button on the instrument panel.
2. Select the "Others" key.
3. Select the "Voice Recognition" key.
4. Select the "Command List" key.
5. Select a category from the list.

6. Select an item.

7. If necessary, scroll the screen using the INFINITI controller to view the entire list.

8. Press the BACK button to return to the previous screen.

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### List of help commands

#### Phone Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dial Number</td>
<td>Makes a call to a spoken phone number.</td>
</tr>
<tr>
<td>Vehicle Phonebook</td>
<td>Makes a call to a contact that is stored in the Vehicle Phonebook.</td>
</tr>
<tr>
<td>Handset Phonebook</td>
<td>Makes a call to a contact that is stored in the mobile phone.</td>
</tr>
<tr>
<td>Call History</td>
<td>Ranges:</td>
</tr>
<tr>
<td></td>
<td><strong>Incoming Calls</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Outgoing Calls</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Missed Calls</strong></td>
</tr>
<tr>
<td>International Call</td>
<td>Makes an international call by allowing more than 10 digits to be spoken.</td>
</tr>
</tbody>
</table>

#### Navigation Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Home</td>
<td>Sets a route to your home that is stored in the Address Book.</td>
</tr>
<tr>
<td>Address</td>
<td>Searches for a location by the street address specified, and sets a route to the location.</td>
</tr>
<tr>
<td>Places</td>
<td>Sets a route to a facility near the current vehicle location.</td>
</tr>
<tr>
<td>Address Book</td>
<td>Searches for stored information in the Address Book.</td>
</tr>
<tr>
<td>Previous Destinations</td>
<td>Sets a route to a previous destination.</td>
</tr>
<tr>
<td>Previous Start Point</td>
<td>Sets a route to a previous starting point.</td>
</tr>
<tr>
<td>Delete Destination</td>
<td>Deletes a destination.</td>
</tr>
</tbody>
</table>
### Information Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Economy</td>
<td>Displays fuel economy information.</td>
</tr>
<tr>
<td>Maintenance</td>
<td>Displays maintenance information.</td>
</tr>
<tr>
<td>Tire Pressure (if so equipped)</td>
<td>Displays tire pressure information</td>
</tr>
<tr>
<td>Where am I?</td>
<td>Displays your current location.</td>
</tr>
<tr>
<td>Traffic Information</td>
<td>Turns the traffic information system ON and OFF.</td>
</tr>
<tr>
<td>Weather Information</td>
<td>Displays weather information.</td>
</tr>
<tr>
<td>Weather Map</td>
<td>Displays a weather map.</td>
</tr>
</tbody>
</table>

### Audio Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Music Box</td>
<td>Turns on the “Music Box” hard drive audio system.</td>
</tr>
<tr>
<td>CD</td>
<td>Starts to play a CD.</td>
</tr>
<tr>
<td>FM</td>
<td>Turns to the FM band, selecting the station last played.</td>
</tr>
<tr>
<td>AM</td>
<td>Turns to the AM band, selecting the station last played.</td>
</tr>
<tr>
<td>XM</td>
<td>Turns to the XM Satellite Radio band, selecting the channel last played.</td>
</tr>
<tr>
<td>USB</td>
<td>Turns on the USB memory.</td>
</tr>
<tr>
<td>Bluetooth Audio</td>
<td>Turns on the Bluetooth® audio player.</td>
</tr>
</tbody>
</table>

Monitor, climate, audio, phone and voice recognition systems

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07/15/10—tbrooks
### Help Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Command List</td>
<td>Displays the navigation command list.</td>
</tr>
<tr>
<td>Navigation Commands</td>
<td>Displays the navigation command list.</td>
</tr>
<tr>
<td>Phone Commands</td>
<td>Displays the phone command list.</td>
</tr>
<tr>
<td>Audio Commands</td>
<td>Displays the audio command list.</td>
</tr>
<tr>
<td>Information Commands</td>
<td>Displays the information command list.</td>
</tr>
<tr>
<td>Help Commands</td>
<td>Displays the help command list.</td>
</tr>
<tr>
<td>User Guide</td>
<td>Displays the User Guide.</td>
</tr>
<tr>
<td>Speaker Adaptation</td>
<td>The system can memorize the voices of up to three persons.</td>
</tr>
</tbody>
</table>

### General Commands:

<table>
<thead>
<tr>
<th>Command</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Go back</td>
<td>Corrects the last recognition result to return to the previous screen</td>
</tr>
<tr>
<td>Exit</td>
<td>Cancels Voice Recognition</td>
</tr>
</tbody>
</table>

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Displaying user guide
You can confirm how to use voice commands by accessing a simplified User Guide, which contains basic instructions and tutorials for several voice commands.

1. Push the INFO button on the instrument panel.
2. Select the “Others” key using the INFINITI controller and push the ENTER button.
3. Highlight the “Voice Recognition” key using the INFINITI controller and push the ENTER button.
4. Highlight the “User Guide” key using the INFINITI controller and push the ENTER button.
5. Highlight an item using the INFINITI controller and push the ENTER button.

Available Items:
- Getting Started
  Describe the basics of how to operate the INFINITI Voice Recognition system.
- Let’s Practice
  Mode that allows practicing by following the instructions of the system voice.
- Using the Address Book
  Refer to Navigation System Owner’s Manual.
- Finding a Street Address (if so equipped)
  Refer to Navigation System Owner’s Manual.
- Placing Calls
  Tutorial for making a phone call by voice command operation.
- Help on Speaking
  Displays useful tips for how to correctly speak commands in order for them to be properly recognized by the system.
- Voice Recognition Settings
  Describes the available voice recognition settings.
- Adapting the System to Your Voice
  Tutorial adapting the system to your voice.

USING THE SYSTEM
Initialization
When the ignition switch is pushed to the ON position, INFINITI Voice Recognition is initialized, which takes a few seconds. When completed, the system is ready to accept voice commands. If the TALK switch is pushed before the initialization completes the display will show the message: “Phonetic data downloaded. Please wait.” or a beep sounds.
Before starting

To get the best performance from INFINITI Voice Recognition, observe the following.

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate the surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing the voice commands correctly.
- When the air conditioner is in the AUTO mode, the fan speed decreases automatically for easy recognition.
- Wait until a tone sounds before speaking a command.
- Speak in a natural voice without pausing between words.

Giving voice command

1. Push and release the TALK switch located on the steering wheel.

2. A list of commands appears on the screen, and the system announces, “Please say a command”.

3. After the tone sounds and the icon on the screen changes from 🎤 to 🎤, speak a command.

Operating tips:

- Voice commands cannot be accepted when the icon is 🎤.
- The list displayed can be scrolled by tilting the menu control switch on the steering wheel.
- If the command is not recognized, the system announces, “Please say again”. Repeat the command in a clear voice.
● Push the BACK button once to return to the previous screen.

● If you want to cancel the command, push and hold the TALK switch for 1 second. The message “Voice canceled” will be announced.

● To skip the voice guidance function and give the command immediately, press the TALK switch to interrupt the system. Remember to speak after the tone.

● If you want to adjust the volume of the system feedback, push the volume control switch (+ or −) on the steering wheel or use the audio system volume knob while the system is making an announcement.

How to speak numbers:

INFINITI Voice Recognition requires a certain way to speak numbers when giving voice commands. Refer to the following examples.

General rule

Only single digits 0 (zero) to 9 can be used. (For example, if you would like to say 500, “five zero zero” can be used, but “five hundred” cannot.

Phone numbers

Speak phone numbers according to the following examples:

● 1-800-662-6200

  – “Dial one eight zero zero six six two zero zero.”

Note 1: For the best voice recognition phone dialing results, say phone numbers as single digits.

Note 2: You cannot say 555-6000 as “five five five six thousands.”

Note 3: When speaking a house number, speak the number “0” as “zero”. If the letter “o (Oh)” is included in the house number, it will not be recognized as the number “0 (zero)” even if you speak “oh” instead of “zero”. Please speak “zero” for the number “0 (zero)”, “oh” for the letter “o (oh)”.

Speaker adaptation function (for Alternate Command Mode)

The voice recognition system has a function to learn the user’s voice for better voice recognition performance. The system can memorize the voices of up to three persons.

Having the system learn the user’s voice:

1. Push the SETTING button on the instrument panel and select the “Others” key.
2. Select the “Voice Recognition” key.
3. Select the “Speaker Adaptation” key.
4. Select the user whose voice is memorized by the system.
5. Select the “Start Speaker Adaptation Learning” key.
6. Select a category to be learned by the system from the following list.
   - Phone Commands
   - Navigation Commands
   - Information Commands
   - Audio Commands
   - Help Commands
   The voice commands in the category are displayed.
7. Select a voice command and then push the ENTER button.
   The voice recognition system starts.
8. The system requests that you repeat a command after a tone.
9. After the tone sounds and the icon on the screen changes from 🎧 to 🎧️, speak the command that the system requested.
10. When the system has recognized the voice command, the voice of the user is learned.
    Push the 🎧️ switch or BACK button to return to the previous screen.
    If the system has learned the command correctly, the voice command status on the right side of the command turns from “None” to “Stored”.

Monitor, climate, audio, phone and voice recognition systems  4-131
Speaker Adaptation function settings:

**Edit User Name**
Edit the user name using the keypad displayed on the screen.

**Delete Voice Data**
Resets the user’s voice that the voice recognition system has learned.

**Continuous Learning**
When this item is turned to ON, you can have the system learn the voice commands in succession, without selecting commands one by one.

Minimize voice feedback (for Alternate Command Mode)
To minimize the voice feedback from the system, perform the following steps.

1. Push the SETTING button on the instrument panel.
2. Select the “Others” key.
3. Select the “Voice Recognition” key.
4. Select the “Minimize Voice Feedback” key.
5. The setting is turned to ON and the voice guidance will now be reduced when using the Voice Recognition system.
## TROUBLESHOOTING GUIDE

The system should respond correctly to all voice commands without difficulty. If problems are encountered, follow the solutions given in this guide for the appropriate error.

Where the solutions are listed by number, try each solution in turn, starting with number one, until the problem is resolved.

<table>
<thead>
<tr>
<th>Symptom/error message</th>
<th>Solution</th>
</tr>
</thead>
</table>
| Displays “COMMAND NOT RECOGNIZED” or the system fails to interpret the command correctly. | 1. Ensure that the command format is valid, see “Command List” earlier in this section.  
2. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.  
3. Ensure that the ambient noise level is not excessive, for example, windows open or defrost on. **NOTE:**  
   If it is too noisy to use the phone, it is likely that voice commands will not be recognized.  
4. If optional words of the command have been omitted, then the command should be tried with these in place. |
| The system consistently selects the wrong voicetag in the phonebook. | 1. Ensure that the voicetag requested matches what was originally stored. (See “BLUETOOTH® HANDS-FREE PHONE SYSTEM (models with navigation system)” earlier in this section; page 4-86.)  
2. Replace one of the voicetags being confused with a different voicetag. |
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PRECAUTIONS WHEN STARTING AND DRIVING

**WARNING**

- Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.

- Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children’s access to car keys.

**EXHAUST GAS (carbon monoxide)**

**WARNING**

- Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.

- If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.

- Do not run the engine in closed spaces such as a garage.

- Do not park the vehicle with the engine running for any extended length of time.

- Keep the trunk lid closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the trunk lid open, follow these precautions:
  1. Open all the windows.
  2. Set the air recirculation to off and the fan control to high to circulate the air.

- If electrical wiring or other cable connections must pass to a trailer through the seal on the trunk lid or the body, follow the manufacturer’s recommendation to prevent carbon monoxide entry into the vehicle.

- The exhaust system and body should be inspected by a qualified mechanic whenever:
  - The vehicle is raised for service.
  - You suspect that exhaust fumes are entering into the passenger compartment.

- You notice a change in the sound of the exhaust system.

- You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.

**THREE-WAY CATALYST**

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

**WARNING**

- The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.

- 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.

5-2 Starting and driving
CAUTION

● Do not use leaded gasoline. Deposits from leaded gasoline seriously reduce the three-way catalyst’s ability to help reduce exhaust pollutants.

● Keep your engine tuned up. Malfunctions in the ignition, fuel injection, or electrical systems can cause overrich fuel flow into the three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by an INFINITI retailer.

● Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.

● Do not race the engine while warming it up.

● Do not push or tow your vehicle to start the engine.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

Each tire, including the spare (if provided), should be checked monthly when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle’s handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver’s responsibility to maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

Additional information

● The TPMS does not monitor the tire pressure of the spare tire.

● The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).
The low tire pressure warning light does not automatically turn off when the tire pressure is adjusted. After the tire is inflated to the recommended pressure, the vehicle must be driven at speeds above 16 MPH (25 km/h) to activate the TPMS and turn off the low tire pressure warning light. Use a tire pressure gauge to check the tire pressure.

The CHECK TIRE PRESSURE warning (if so equipped) appears in the dot matrix liquid crystal display when the low tire pressure warning light is illuminated and low tire pressure is detected. The CHECK TIRE PRESSURE warning (if so equipped) turns off when the low tire pressure warning light turns off.

The CHECK TIRE PRESSURE warning does not appear if the tire pressure warning light illuminates to indicate a TPMS malfunction.

Tire pressure rises and falls depending on the heat caused by the vehicle's operation and the outside temperature. Low outside temperature can lower the temperature of the air inside the tire which can cause a lower tire inflation pressure. This may cause the low tire pressure warning light to illuminate. If the warning light illuminates in low ambient temperature, check the tire pressure for all four tires.

You can also check the pressure of all tires (except the spare tire) on the display screen. The order of the tire pressure figures displayed on the screen does not correspond with the actual order of the tire position. See "TIRE PRESSURE information" in the "4. Monitor, climate, audio, phone and voice recognition systems" section.

The high tire pressure warning light (if so equipped) shows the tire inflation pressure. For additional information, see "Low tire pressure warning light" in the "2. Instruments and controls" section and "TIRE PRESSURE MONITORING SYSTEM (TPMS)" in the "6. In case of emergency" section.

---

**WARNING**

- If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible. (See "FLAT TIRE" in the "6. In case of emergency" section for changing a flat tire.)
- When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.
- Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.
- Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.

---

**CAUTION**

- The TPMS may not function properly when the wheels are equipped with tire chains or the wheels are buried in snow.
- Do not place metalized film or any metal parts (antenna, etc.) on the windows. This may cause poor reception of the signals from the tire pressure sensors, and the TPMS will not function properly.
Some devices and transmitters may temporarily interfere with the operation of the TPMS and cause the low tire pressure warning light to illuminate. Some examples are:

- Facilities or electric devices using similar radio frequencies are near the vehicle.
- If a transmitter set to similar frequencies is being used in or near the vehicle.
- If a computer (or similar equipment) or a DC/AC converter is being used in or near the vehicle.

**FCC Notice:**

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

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

### AVOIDING COLLISION AND ROLLOVER

**WARNING**

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways. Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the “SEAT BELTS” in the “1. Safety — Seats, seat belts and supplemental restraint system” section of this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers. In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person properly wearing a seat belt.

### OFF-ROAD RECOVERY

While driving, the right side or left side wheels may unintentionally leave the road surface. If this occurs, maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

1. Remain calm and do not overreact.
2. Do not apply the brakes.
3. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
4. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
5. If there is nothing in the way, steer the vehicle to follow the road while the vehicle speed is reduced.
6. When it is safe to do so, gradually turn the steering wheel until both tires return to the road surface. When all tires are on the road surface, steer the vehicle to stay in the appropriate driving lane.
If you decide that it is not safe to return the vehicle to the road surface based on vehicle, road or traffic conditions, gradually slow the vehicle to a stop in a safe place off the road.

RAPID AIR PRESSURE LOSS

Rapid air pressure loss or a “blow-out” can occur if the tire is punctured or is damaged due to hitting a curb or pothole. Rapid air pressure loss can also be caused by driving on under-inflated tires.

Rapid air pressure loss can affect the handling and stability of the vehicle, especially at highway speeds.

Help prevent rapid air pressure loss by maintaining the correct air pressure and visually inspect the tires for wear and damage. See “WHEELS AND TIRES” in the “8. Maintenance and do-it-yourself” section of this manual.

If a tire rapidly loses air pressure or “blows-out” while driving maintain control of the vehicle by following the procedure below. Please note that this procedure is only a general guide. The vehicle must be driven as appropriate based on the conditions of the vehicle, road and traffic.

**WARNING**

The following actions can increase the chance of losing control of the vehicle if there is a sudden loss of tire air pressure. Losing control of the vehicle may cause a collision and result in personal injury.

- The vehicle generally moves or pulls in the direction of the flat tire.
- Do not rapidly apply the brakes.
- Do not rapidly release the accelerator pedal.
- Do not rapidly turn the steering wheel.

1. Remain calm and do not overreact.
2. Maintain a firm grip on the steering wheel with both hands and try to hold a straight course.
3. When appropriate, slowly release the accelerator pedal to gradually slow the vehicle.
4. Gradually steer the vehicle to a safe location off the road and away from traffic if possible.
5. Lightly apply the brake pedal to gradually stop the vehicle.
6. Turn on the hazard warning flashers and either contact a roadside emergency service to change the tire or see “CHANGING A FLAT TIRE” in the “6. In case of emergency” section of this Owner’s Manual.

DRINKING ALCOHOL/DRUGS AND DRIVING

**WARNING**

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

INFINITI is committed to safe driving. However, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol-related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.
INTELLIGENT ALL-WHEEL DRIVE (AWD)
DRIVING SAFETY PRECAUTIONS

WARNING
● Do not drive beyond the performance capability of the tires, even with Intelligent AWD engaged. Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.
● Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Install tire chains on the rear wheels when driving on slippery roads and drive carefully.
● This vehicle is not designed for offroad (rough road) use. Do not drive on sandy or muddy roads that tires may get stuck in.

For AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any D (Drive) or R (Reverse) position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

Do not attempt to test an AWD equipped vehicle on a 2-wheel dynamometer, (such as the dynamometers used by some states for emissions testing), or similar equipment even if the other two wheels are raised off the ground. Make sure you inform test facility personnel that your vehicle is equipped with AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

When a wheel is off the ground due to an unlevel surface, do not spin the wheel excessively.

WARNING
Do not operate the push-button ignition switch while driving the vehicle except in an emergency. (The engine will stop when the ignition switch is pushed 3 consecutive times or the ignition switch is pushed and held for more than 2 seconds.) If the engine stops while the vehicle is being driven, this could lead to a crash and serious injury.

Before operating the push-button ignition switch, be sure to move the selector lever to the P (Park) position.
OPERATING RANGE FOR ENGINE START FUNCTION

The Intelligent Key can only be used for starting the engine when the Intelligent Key is within the specified operating range ①.

When the Intelligent Key battery is almost discharged or strong radio waves are present near the operating location, the Intelligent Key system’s operating range becomes narrower and may not function properly.

If the Intelligent Key is within the operating range, it is possible for anyone, even someone who does not carry the Intelligent Key, to push the ignition switch to start the engine.

5-8 Starting and driving

- The trunk area is not included in the operating range but the Intelligent Key may function.
- If the Intelligent Key is placed on the instrument panel, rear parcel shelf, inside the glove box or door pocket, the Intelligent Key may not function.
- If the Intelligent Key is placed near the door or window outside the vehicle, the Intelligent Key may function.

PUSH-BUTTON IGNITION SWITCH OPERATION

When the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change as follows:

- Push center once to change to ACC.
- Push center two times to change to ON.
- Push center three times to change to OFF. (No position illuminates.)
- Push center four times to return to ACC.
- Open or close any door to return to LOCK during the OFF position.

The ignition switch is equipped with an anti-theft steering lock device.
In order for the steering wheel to be locked, it must be turned about 1/8 of a right or left turn from the straight up position.

To lock the steering wheel, shift the ignition switch to the LOCK position. To unlock the steering wheel, push the ignition switch. If the steering lock release malfunction indicator appears on the dot matrix liquid crystal display, push the push-button ignition switch again while lightly turning the steering wheel right and left. (See "DOT MATRIX LIQUID CRYSTAL DISPLAY" in the "2. Instruments and controls" section.)

If the battery of the vehicle is discharged, the push-button ignition switch cannot be turned from the LOCK position.

Some indicators and warnings for operation are displayed on the dot matrix liquid crystal display between the speedometer and tachometer. (See “DOT MATRIX LIQUID CRYSTAL DISPLAY” in the “2. Instruments and controls” section.)

The ignition lock is designed so that the ignition switch position cannot be switched to LOCK until the selector lever is moved to the P (Park) position.

When the ignition switch cannot be pushed toward the LOCK position, proceed as follows:

1. Move the selector lever into the P (Park) position.
2. Push the ignition switch to the OFF position. The ignition switch position indicator will not illuminate.
3. Open the door. The ignition switch will change to the LOCK position.

The selector lever can be moved from the P (Park) position if the ignition switch is in the ON position and the brake pedal is depressed.

PUSH-BUTTON IGNITION SWITCH POSITIONS

LOCK (Normal parking position)
The ignition switch can only be locked in this position.
The ignition switch will be unlocked when it is pushed to the ACC position while carrying the Intelligent Key.

ACC (Accessories)
This position activates electrical accessories such as the radio, when the engine is not running.

ON (Normal operating position)
This position turns on the ignition system and electrical accessories.

OFF
The engine can be turned off without locking the steering wheel.
The ignition lock is designed so that the ignition switch cannot be switched to the LOCK position until the selector lever is moved to the P (Park) position.

CAUTION
Do not leave the vehicle with the push-button ignition switch in ACC or ON positions when the engine is not running for an extended period. This can discharge the battery.

EMERGENCY ENGINE SHUT OFF
To shut off the engine in an emergency situation while driving perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times or
- Push and hold the push-button ignition switch for more than 2 seconds.
INTELLIGENT KEY BATTERY DISCHARGE

If the battery of the Intelligent Key is discharged, or environmental conditions interfere with the Intelligent Key operation, start the engine according to the following procedure:

1. Move the selector lever to the P (Park) position.
2. Firmly apply the foot brake.
3. Touch the ignition switch with the Intelligent Key as illustrated. (A chime will sound.)
4. Push the ignition switch while depressing the brake pedal within 10 seconds after the chime sounds. The engine will start.

After step 3 is performed, when the ignition switch is pushed without depressing the brake pedal, the ignition switch position will change to ACC.

NOTE:

- When the ignition switch is pushed to the ACC or ON position or the engine is started by the above procedures, the Intelligent Key system warning light may blink in yellow even if the Intelligent Key is inside the vehicle. This is not a malfunction. To stop the warning light from blinking, touch the ignition switch with the Intelligent Key again.
- If the Intelligent Key system warning light in the meter is blinking in green, replace the battery as soon as possible. (See “INTELLIGENT KEY BATTERY REPLACEMENT” in the “8. Maintenance and do-it-yourself” section.)
- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake fluid and window washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the ignition switch is pushed to the ON position. (See “WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS” in the “2. Instruments and controls” section.)
1. Apply the parking brake.
2. Move the selector lever to the P (Park) or N (Neutral) position. (P is recommended.)
   The starter is designed not to operate unless the selector lever is in either of the above positions.
3. Push the ignition switch to the ON position. Depress the brake pedal and push the ignition switch to start the engine.
   To start the engine immediately, push and release the ignition switch while depressing the brake pedal with the ignition switch in any position.
   - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
   - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the ON position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to OFF. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by depressing the brake pedal and pushing the push-button ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.
   - If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/3 to the floor) and while holding, crank the engine. Release the accelerator pedal when the engine starts.
   - If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Push the ignition switch to the ON position to start cranking the engine. After 5 or 6 seconds, stop cranking by pushing the ignition switch to OFF. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by depressing the brake pedal and pushing the push-button ignition switch to start the engine. If the engine starts, but fails to run, repeat the above procedure.
4. Warm-up
   Allow the engine to idle for at least 30 seconds after starting. Do not race the engine while warming it up. Drive at moderate speed for a short distance first, especially in cold weather. In cold weather, keep the engine running for a minimum of 2 - 3 minutes before shutting it off. Starting and stopping the engine over a short period of time may make the vehicle more difficult to start.
   When racing the engine up to 4,000 rpm (VK56VD engine) or 4,500 rpm (VQ37VHR engine) or more under no load condition, the engine will enter the fuel cut mode.
5. To stop the engine, shift the selector lever to the P (Park) position and push the ignition switch to the OFF position.
   In preparation for the next engine start, the engine may have a slightly delayed shutoff after pushing the ignition switch to the OFF position, depending on the driving conditions (VK56VD engine models).
DRIVING THE VEHICLE

AUTOMATIC TRANSMISSION

The automatic transmission in your vehicle is electronically controlled by a transmission control module to produce maximum efficiency and smooth operation.

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maximum vehicle performance and driving enjoyment.

Starting the vehicle

After starting the engine, fully depress the foot brake pedal and push the selector lever button before shifting the selector lever to the R (Reverse), N (Neutral), D (Drive) or Manual shift mode position. Be sure the vehicle is fully stopped before attempting to shift the selector lever.

This automatic transmission model is designed so that the foot brake pedal must be depressed before shifting from P (Park) to any drive position while the ignition switch position is ON.

The selector lever cannot be moved out of the P (Park) position and into any of the other gear positions if the ignition switch is pushed to the LOCK, OFF or ACC position.

1. Keep the foot brake pedal depressed and push the selector lever button to shift into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

WARNING

● Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or manual shift mode. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.

● Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.

● Never shift to P (Park) or R (Reverse) while vehicle is moving forward. Never shift to P (Park) or D (Drive) while vehicle is moving rearward. Failure to do so could cause you to lose control and have an accident.

CAUTION

● When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.

● Do not downshift abruptly on slippery roads. This may cause a loss of control.
Shifting

To move the selector lever,

- Push the button while depressing the brake pedal,
- Push the button,
- Just move the selector lever.

After starting the engine, fully depress the brake pedal and shift the selector lever from P (Park) to R (Reverse), N (Neutral), D (Drive) or Manual shift mode position.

Push the button to shift into P (Park) or R (Reverse). All other positions can be selected without pushing the button.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Apply the parking brake if the selector lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this position only when the vehicle is completely stopped.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>R (Reverse) :</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this position to back up. Always be sure the vehicle is completely stopped before selecting the R (Reverse) position. The brake pedal must be depressed and the selector lever button pushed in to move the selector lever from the P (Park) position, the N (Neutral) position or any drive position to the R (Reverse) position.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this position only when the vehicle is completely stopped.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>N (Neutral) :</th>
</tr>
</thead>
<tbody>
<tr>
<td>Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to the N (Neutral) position and restart a stalled engine while the vehicle is moving.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D (Drive) :</th>
</tr>
</thead>
<tbody>
<tr>
<td>Use this position for all normal forward driving.</td>
</tr>
</tbody>
</table>

Starting and driving 5-13
Manual shift mode

When the selector lever is in the manual shift gate, the transmission is ready for the manual shift mode. Shift ranges can be selected manually by moving the selector lever up or down, or pulling the right-side or left-side paddle shifter (if so equipped).

When shifting up, move the selector lever to the + (up) side or pull the right-side paddle shifter (+) (if so equipped). The transmission shifts to the higher range.

When shifting down, move the selector lever to the - (down) side or pull the left-side paddle shifter (-) (if so equipped). The transmission shifts to the lower range.

When canceling the manual shift mode, return the selector lever to the D (Drive) position. The transmission returns to the normal driving mode.

When you pull the paddle shifter while in the D (Drive) position, the transmission will shift to the upper or lower range temporarily. If you want to return to the D (Drive) position manually, pull and hold the paddle shifter for about 1.5 seconds.

In the manual shift mode, the shift range is displayed on the position indicator in the meter. Shift ranges up or down one by one as follows:

\[
M_1 \xrightarrow{-} M_2 \xrightarrow{-} M_3 \xrightarrow{-} M_4 \xrightarrow{-} M_5 \xrightarrow{-} M_6 \xrightarrow{-} M_7
\]

\(M_7\) (7th):
Use these positions for all normal forward driving at highway speeds.

\(M_6\) (6th) and \(M_5\) (5th):
Use this position when driving up long slopes, or for engine braking when driving down long slopes.

\(M_4\) (4th), \(M_3\) (3rd) and \(M_2\) (2nd):
Use these positions for hill climbing or engine braking on downhill grades.

\(M_1\) (1st):
Use this position when climbing steep hills slowly or driving slowly through deep snow, or for maximum engine braking on steep downhill grades.

- Remember not to drive at high speeds for extended periods of time in lower than 7th gear. This reduces fuel economy.
- Moving the selector lever rapidly to the same side twice will shift the ranges in succession.
- In the manual shift mode, the transmission may not shift to the selected gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.

When this situation occurs, the Automatic Transmission (AT) position indicator light (on the dot matrix liquid crystal display) will blink and the chime will sound.
In the manual shift mode, the transmission automatically shifts down to 1st gear before the vehicle comes to a stop. When accelerating again, it is necessary to shift up to the desired range.

Accelerator downshift — In D (Drive) position —
For passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into the lower gear, depending on the vehicle speed.

Fail-safe
When the fail-safe operation occurs, note that the transmission will be locked in any of the forward gears according to the condition.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case, push the ignition switch to the OFF position and wait for 3 seconds. Then push the ignition switch back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have an INFINITI retailer check the automatic transmission system as soon as possible.

Shift lock release
If the battery charge is low or discharged, the selector lever may not be moved from the P (Park) position even with the brake pedal depressed and the selector lever button pushed.

To move the selector lever, perform the following procedure:
1. Push the ignition switch to the OFF or LOCK position.
2. Apply the parking brake.
3. Remove the shift lock cover as illustrated.
4. Push down the shift lock B as illustrated.
5. Push the selector lever button C and move the selector lever to N (Neutral) position D while holding down the shift lock.

Push the ignition switch to the ON position to unlock the steering wheel. Now the vehicle may be moved to the desired location.

If the battery is discharged completely, the steering wheel cannot be unlocked. Do not move the vehicle with the steering wheel locked.

If the lever cannot be moved out of P (Park), have an INFINITI retailer check the automatic transmission system as soon as possible.

Starting and driving  5-15
PARKING BRAKE

WARNING

● Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.
● Do not release the parking brake from outside the vehicle.
● Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.
● Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.

To apply: Fully depress the parking brake pedal ①.

To release:
1. Firmly apply the foot brake ②.
2. Depress the parking brake pedal ① and the parking brake will be released.
3. Before driving, be sure the brake warning light goes out.

INFINITI DRIVE MODE SELECTOR

Four driving modes can be selected by using the drive mode selector switch, STANDARD, SPORT, ECO and SNOW.

NOTE:
When the drive mode select switch selects a mode, the mode may not switch quickly. This is not a malfunction.
STANDARD MODE
Recommended for normal driving. Turn the drive mode select switch to the 位置.
“STANDARD” appears in the vehicle information display for 2 seconds.

SPORT MODE
Adjusts the engine and transmission points to enhance performance. If the vehicle is equipped with 4-Wheel Active Steer (4WAS) system, the SPORT mode adjusts this system’s settings to provide faster steering ratios. If the vehicle is equipped with the active trace control system, the amount of brake control provided by active trace control is reduced. (See “4 WHEEL ACTIVE STEER (4WAS) SYSTEM” later in this section or “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” later in this section.) Turn the drive mode select switch to the SPORT position. “SPORT” appears in the vehicle information display for 2 seconds.

NOTE:
In the SPORT mode, fuel economy may be reduced.

SNOW MODE
Used on snowy roads or slippery areas. When the SNOW mode is activated, engine output is controlled to avoid wheel spin. Turn the SNOW mode off for normal driving. Turn the drive mode select switch to the SNOW position. “SNOW” appears in the vehicle information display for 2 seconds.

ECO MODE
Adjusts engine and transmission points to enhance fuel economy.

NOTE:
Selecting this drive mode will not necessarily improve fuel economy as many driving factors influence its effectiveness.

Operation
Turn the drive mode select switch to the ECO position. “ECO” appears in the vehicle information display for 2 seconds and the ECO drive indicator light illuminates on the instrument panel.

When the accelerator pedal is depressed within the range of economy drive, the ECO drive indicator light illuminates in green. When the accelerator pedal is depressed above the range of economy drive, the color of the ECO drive indicator light changes to orange. For ECO pedal system equipped models see “ECO pedal system” later in this section.

The ECO drive indicator light will not illuminate in the following cases:
- When the selector lever is in the R (Reverse) position.
- When the vehicle speed is below 3 MPH (4.8 km/h) or over 90 MPH (144 km/h).
- When the Intelligent Cruise Control (ICC) system is operated.

ECO pedal system (if so equipped)
Helps assist the driver to improve fuel economy by increasing the reaction force of the accelerator pedal. When the ECO drive indicator light is blinking or turns orange, the ECO pedal system increases the reaction force of the accelerator pedal.
When the ECO drive indicator illuminates in green, the accelerator reaction force is normal. When the ECO drive indicator light is blinking or turns orange, the ECO pedal system increases the reaction force of the accelerator pedal.

The ECO pedal system may not vary accelerator reaction force under the following conditions:

- When the selector lever is in the N (Neutral) or R (Reverse) position.
- When Intelligent Cruise Control (ICC) is being operated.

If the ECO pedal system malfunctions, it will cancel automatically. The ECO pedal system will not vary the reaction force of the accelerator pedal.

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When the drive mode select switch is rotated from the ECO mode to another mode (STANDARD, SPORT or SNOW) while the ECO pedal system is operating, the ECO pedal system continues to operate until the pedal is released.

If the accelerator pedal is depressed quickly, the ECO pedal system will not increase the reaction force of the acceleration pedal. The ECO pedal system is not designed to prevent the vehicle from accelerating.

Adjusting the ECO pedal system reaction force:

The ECO pedal system reaction force can be adjusted. The reaction force setting will be maintained until the setting is changed even if the engine is turned off.
Setting ECO pedal reaction force:

1. Push the SETTING ① button and highlight the ECO DRIVE key on the display using the INFINITI controller. Then push the ENTER ② button.
2. Highlight the ECO pedal key and push the ENTER ② button.
3. To set the reaction force of the ECO pedal system, highlight “Standard” or “Soft”.
4. To turn off the ECO pedal system, highlight the OFF key, select ON and push the ENTER ② button. When the ECO pedal system is tuned off, the accelerator will operate normally.
The Lane Departure Warning (LDW) system/Lane Departure Prevention (LDP) system will operate when the vehicle is driven at speeds of approximately 45 MPH (70 km/h) and above, and when it is traveling close to either the left or the right of a traveling lane.

Each system functions as follows:

- **Lane Departure Warning (LDW) system** — warns the driver by a warning light and chime.
- **Lane Departure Prevention (LDP) system** — warns the driver by a warning light and chime, and helps assist the driver to return the vehicle to the center direction of the traveling lane by applying brake control to the left or right wheels individually (for a short period of time).

The LDW and LDP systems monitor the lane markers on the traveling lane using the camera unit 1 located above the inside mirror. When the camera unit detects that the vehicle is traveling close to either the left or the right of the traveling lane, the lane departure warning light 2 on the instrument panel blinks in orange and a warning chime sounds. When the LDP system is on, it will automatically apply the brakes for a short period of time, using the function of the Vehicle Dynamic Control (VDC) system.

To turn on the LDW system, push the warning systems switch 3. The warning systems ON indicator light 4 on the switch will illuminate.

To turn on the LDP system, push the dynamic driver assistance switch 5. The LDP ON indicator light 6 will illuminate in green.

SSD0937

SSD0975

SSD0937

SSD0975
LANE DEPARTURE WARNING (LDW) SYSTEM

Precautions on LDW system

**WARNING**

- This system is only a warning device to inform the driver of a potential unintended lane departure. It will not steer the vehicle or prevent loss of control. It is the driver's responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of the vehicle at all times.
- The system will not operate at speeds below approximately 45 MPH or if it cannot detect lane markers.
- If the LDW system malfunctions, it will cancel automatically, and the lane departure warning light (orange) will illuminate.
- If the lane departure warning light (orange) illuminates, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the lane departure warning light (orange) continues to illuminate, have the system checked by an INFINITI retailer.

- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

The system may not function properly under the following conditions:

- On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; or lane markers covered with water, dirt, snow, etc.
- On roads where the discontinued lane markers are still detectable.
- On roads where there are sharp curves.
- On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs. (The LDW system could detect these items as lane markers.)
- On roads where the traveling lane merges or separates.
- When the vehicle's traveling direction does not align with the lane marker.
- When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
- When rain, snow or dirt adheres to the windshield in front of the lane camera unit.
- When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
- When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
- When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)

Starting and driving 5-21
LDW system operation

The LDW system provides a lane departure warning function when the vehicle is driven at speeds of approximately 45 MPH (70 km/h) and above. When the vehicle approaches either the left or the right side of the traveling lane, a warning chime will sound and the lane departure warning light (orange) on the instrument panel will blink to alert the driver.

The warning function will stop when the vehicle returns inside of the lane markers.

The LDW system is not designed to warn under the following conditions:

- When you operate the lane change signal and change traveling lanes in the direction of the signal. (The LDW system will become operable again approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 45 MPH (70 km/h).
- When the BSI system activates an audible warning or brake control.

After the above conditions have finished and the necessary operating conditions are satisfied, the LDW functions will resume.

The LDW system is automatically turned on when the engine is started and the warning systems ON indicator \( \text{1} \) illuminates on the switch. You can turn the LDW system off by pushing the warning systems switch on the instrument panel. This switch will turn on and off the LDW, BSW and FCW systems at the same time.

NOTE:

If you continue to push the warning systems switch from off to on for over 4 seconds, a chime will sound. This will change the default status of the LDW, BSW and FCW systems to OFF so that these systems will not automatically turn on when the engine is started. If this procedure is repeated, the default status will return to ON.

Temporary disabled status at high temperature

If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C) and then started, the LDW system may be deactivated automatically. The lane departure warning light (orange) will flash.

When the interior temperature is reduced, the LDW system will resume operating automatically and the lane departure warning light (orange) will stop flashing.
LANE DEPARTURE PREVENTION (LDP) SYSTEM

Precautions on LDP system

**WARNING**

- The LDP system will not steer the vehicle or prevent loss of control. It is the driver’s responsibility to stay alert, drive safely, keep the vehicle in the traveling lane, and be in control of vehicle at all times.

- The LDP system is primarily intended for use on well-developed freeways or highways. It may not detect the lane markers in certain roads, weather or driving conditions.

- Using the LDP system under some conditions of road, lane marker or weather, or when you change lanes without using the lane change signal could lead to an unexpected system operation. In such conditions, you need to correct the vehicle’s direction with your steering operation to avoid accidents.

- When the LDP system is operating, avoid excessive or sudden steering maneuvers. Otherwise, you could lose control of the vehicle.

- The LDP system will not operate at speeds below approximately 45 MPH (70 km/h) or if it cannot detect lane markers.

- The LDP system may not function properly under the following conditions, and do not use the LDP system:
  - During bad weather (rain, fog, snow, wind, etc.).
  - When driving on slippery roads, such as on ice or snow, etc.
  - When driving on winding or uneven roads.
  - When there is a lane closure due to road repairs.
  - When driving in a makeshift lane.
  - When driving on roads where the lane width is too narrow.
  - When driving with a tire that is not within normal tire conditions (for example, tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).
  - When the vehicle is equipped with non-original brake parts or suspension parts.

- If the LDP system malfunctions, it will cancel automatically. The lane departure warning light (orange) on the instrument panel will illuminate.

- If the lane departure warning light (orange) illuminates, pull off the road to a safe location and stop the vehicle. Turn the engine off and restart the engine. If the warning light (orange) continues to illuminate, have the LDP system checked by an INFINITI retailer.

- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

The functions of the LDP system (warning and brake control assist) may or may not operate properly under the following conditions:

- On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; lane markers covered with water, dirt, snow, etc.

- On roads where discontinued lane markers are still detectable.

- On roads where there are sharp curves.

- On roads where there are sharply contrasting objects, such as shadows, snow, water,
wheel ruts, seams or lines remaining after road repairs. (The LDP system could detect these items as lane markers.)

- On roads where the traveling lane merges or separates.
- When the vehicle’s traveling direction does not align with the lane marker.
- When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
- When rain, snow or dirt adheres to the windshield in front of the lane camera unit.
- When the headlights are not bright due to dirt on the lens or if the aiming is not adjusted properly.
- When strong light enters the lane camera unit. (For example, the light directly shines on the front of the vehicle at sunrise or sunset.)
- When a sudden change in brightness occurs. (For example, when the vehicle enters or exits a tunnel or under a bridge.)

While the LDP system is operating, you may hear a sound of brake operation. This is normal and indicates that the LDP system is operating properly.

5-24 Starting and driving

The warning and assist functions will stop when the vehicle returns to a position inside of the lane marker.

LDP ON indicator light (green)/Warning light (orange)

LDP system operation

The LDP system provides a lane departure warning and brake control assistance when the vehicle is driven at speeds of approximately 45 MPH (70 km/h) and above. When the vehicle approaches either the left or the right side of the traveling lane, a warning chime will sound and the lane departure warning light (orange) on the instrument panel will blink to alert the driver. Then, the LDP system will automatically apply the brakes for a short period of time to help assist the driver to return the vehicle to the center of the traveling lane.
The LDP system is turned on if you push the dynamic driver assistance switch on the steering wheel after starting the engine. The LDP ON indicator light (green) on the instrument panel will illuminate. Push the dynamic driver assistance switch again to turn off the LDP system. The LDP ON indicator light will turn off.

Changing the dynamic driver assistance switch settings:
The dynamic driver assistance switch will turn on and off the LDP, BSI and DCA systems at the same time when each system is enabled using the settings menu on the center display.

1. Push the SETTING 1 button and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER 2 button.
2. Highlight the “Dynamic Assistance settings” key, and push the ENTER 2 button.

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3. Highlight the “Lane Departure Prevention” key, select ON (enabled) or OFF (disabled) and push the ENTER button. The factory default setting is set to ON (enabled).

If you set all of the systems to disable and push the dynamic driver assistance switch, the indicator of the disabled system will blink for approximately 4 seconds and turn off.

See “BLIND SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM” later in this section and “DISTANCE CONTROL ASSIST (DCA) SYSTEM” later in this section.

Automatic deactivation

Condition A:
The warning and assist functions of the LDP system are not designed to work under the following conditions:
- When you operate the lane change signal and change the traveling lanes in the direction of the signal. (The LDP system will be deactivated for approximately 2 seconds after the lane change signal is turned off.)
- When the vehicle speed lowers to less than approximately 45 MPH (70 km/h).
- When the BSI system activates an audible warning or brake control.
After the above conditions have finished and the necessary operating conditions are satisfied, the warning and assist functions will resume.

Condition B:
The assist function of the LDP system is not designed to work under the following conditions (warning is still functional):
- When the brake pedal is depressed.
- When the steering wheel is turned as far as necessary for the vehicle to change lanes.
- When the accelerator pedal is depressed while the brake control assist is provided.
- When the Intelligent Cruise Control (ICC) approach warning occurs.
- When the hazard warning flashers are operated.
- When driving on a curve at high speed.
After the above conditions have finished and the necessary operating conditions are satisfied, the LDP brake control assist function will resume.

Condition C:
Under the following conditions, a beep will sound and the LDP system will be canceled automatically. The LDP ON indicator light will blink in green, and the LDP system cannot be activated:
- When the VDC system (except TCS function) or ABS operates.
- When the VDC system is turned off.
- When the VDC system is turned off.
- When the drive mode select switch is turned to the SNOW mode.
Action to take:
When the above conditions no longer exist, turn off the LDP system. Push the dynamic driver assistance switch again to turn the LDP system back on.

Temporary disabled status at high temperature:
If the vehicle is parked in direct sunlight under high temperature conditions (over approximately 104°F (40°C)) and then the LDP system is turned on, the LDP system may be deactivated automatically. The lane departure warning light (orange) will blink.

Action to take:
When the above conditions no longer exist, turn off the LDP system. Push the dynamic driver assistance switch again to turn the LDP system back on.

LANE CAMERA UNIT MAINTENANCE
The lane camera unit ① for the LDW/LDP system is located above the inside mirror. To keep the proper operation of the LDW/LDP systems and prevent a system malfunction, be sure to observe the following:

- Always keep the windshield clean.
- Do not attach a sticker (including transparent material) or install an accessory near the camera unit.
- Do not place reflective materials, such as white paper or a mirror, on the instrument panel. The reflection of sunlight may adversely affect the camera unit’s capability of detecting the lane markers.

- Do not strike or damage the areas around the camera unit. Do not touch the camera lens or remove the screw located on the camera unit. If the camera unit is damaged due to an accident, contact an INFINITI retailer.

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The BSW and BSI systems can help 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 beside your vehicle in an adjacent lane. In addition to the radar sensors, the BSI system uses a camera ② installed behind the windshield to monitor the lane markers of your traveling lane.

Detection zone

The radar sensors can detect vehicles on either side of your vehicle within the detection zone shown as illustrated. This detection zone starts from the outside mirror of your vehicle and extends approximately 10 ft (3.0 m) behind the rear bumper, and approximately 10 ft (3.0 m) sideways.

The BSW system operates above approximately 20 MPH (32 km/h). If the radar sensors “detect a vehicle” in the detection zone, the BSW/BSI indicator light illuminates. If the driver then activates the turn signal, a chime will sound twice and the BSW/BSI indicator light will flash.
The BSI system operates above approximately 37 MPH (60 km/h). If the system detects a vehicle in the detection zone and your vehicle is approaching the lane marker, the BSI system issues an audible warning (three times), flashes the BSW/BSI indicator light and slightly applies the brakes for a short period of time on one side to help return the vehicle back to the traveling lane. Whenever the BSI system is turned on, the BSW system will also be on.

WARNING

- The BSW and BSI systems are not a replacement for proper driving procedure and is not designed to prevent contact with vehicles or objects. When changing lanes, always use the side and rear mirrors and turn and look in the direction you will move to ensure it is safe to change lanes. Never rely solely on the BSW or BSI system.
- Using the BSI system under some road, lane marker or weather conditions could lead to improper system operation. Always rely on your own steering and braking operation to avoid accidents.
- The BSW and BSI systems may not provide a warning or brake control for vehicles that pass through the detection zone quickly.

BSW SYSTEM OPERATION

If the radar sensors detect a vehicle in the detection zone, the BSW/BSI indicator light next to the outside mirror will illuminate in the direction of the detected vehicle. If the turn signal is then activated, the BSW/BSI indicator light flashes and a chime sounds twice. The indicator light continues to flash until the detected vehicle leaves the detection zone.

The BSW/BSI indicator lights illuminate for a few seconds when the ignition switch is pushed to the ON position.
The brightness of the BSW/BSI indicator lights is adjusted automatically depending on the brightness of the ambient light.

A chime sounds if the radar sensors have already detected vehicles when the driver activates the turn signal. If a vehicle comes into the detection zone after the driver activates the turn signal, then only the BSW/BSI indicator light flashes and no chime sounds. (See “BSW/BSI DRIVING SITUATIONS” later in this section)

The BSW system is automatically turned on when the engine is started and the warning systems ON indicator illuminates on the switch. You can turn the BSW system off by pushing the warning systems switch on the instrumental panel. This switch will turn on and off the LDW, BSW and FCW systems at the same time.

**NOTE:**

If you continue to push the warning systems switch from off to on for over 4 seconds, a chime will sound. This will change the default status of the LDW, BSW and FCW systems to Off so that these systems will not automatically turn on when the engine is started. If this procedure is repeated, the default status will return to ON.

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**BSI SYSTEM OPERATION**

If the BSW/BSI indicator light is illuminated while your vehicle is approaching a lane marker, the BSW/BSI indicator light flashes and an audible warning will sound three times. Then the system applies the brakes on one side of the vehicle for a short period of time to help return the vehicle back to the center of the lane. BSI operates regardless of turn signal usage.

**NOTE:**

- Warning and brake control will only be activated if the BSW/BSI indicator light is already illuminated when your vehicle approaches a lane marker. If another vehicle comes into the detection zone after your vehicle has crossed a lane marker, no warning or brake control will be activated. (See “BSW/BSI DRIVING SITUATIONS” later in this section.)
- The BSI system is typically activated earlier than the LDP system when your vehicle is approaching a lane marker.

The BSI system is turned on if you push the dynamic driver assistance switch after starting the engine. The BSI ON indicator light (green) on the instrument panel will illuminate. Push the dynamic driver assis-
tance switch again to turn off the BSI system. The BSI ON indicator light will turn off.

NOTE:
Whenever the BSI system is turned on, the BSW system will also be on. If the BSW system has previously been turned off using the warning systems switch, it will be turned on and off together with the BSI system when pushing the dynamic driver assistance switch. However, the warning systems ON indicator on the warning systems switch does not change.

Changing the dynamic driver assistance switch settings
The dynamic driver assistance switch will turn on and off the LDP, BSI and DCA systems at the same time when each system is enabled using the settings menu on the center display.

1. Push the SETTING ① button and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER ② button.
2. Highlight the “Dynamic Assistance settings” key, and push the ENTER ② button.
3. Highlight the “Blind Spot Intervention” key, select ON (enabled) or OFF (disabled) and push the ENTER button. The factory default setting is set to ON (enabled).

If you set all of the systems to disable and push the dynamic driver assistance switch, the indicator of the disabled system will blink for approximately 4 seconds and turn off.

See “LANE DEPARTURE PREVENTION (LDP) SYSTEM” earlier in this section and “DISTANCE CONTROL ASSIST (DCA) SYSTEM” later in this section.

**WARNING**

- Do not use the BSI system under the following conditions because the system may not function properly.
  - During bad weather (e.g. rain, fog, snow, wind, etc.)
  - When driving on slippery roads, such as on ice or snow, etc.
  - When driving on winding or uneven roads.
  - When there is a lane closure due to road repairs.
  - When driving in a makeshift lane.
  - When driving on roads where the lane width is too narrow.
  - When driving with a tire that is not within normal tire conditions (e.g. tire wear, low tire pressure, installation of spare tire, tire chains, non-standard wheels).
  - When the vehicle is equipped with non-original brake parts or suspension parts.
- Do not use the BSW or BSI systems when towing a trailer.
- Excessive noise (e.g. audio system volume, open vehicle window) will interfere with the chime sound, and it may not be heard.
- The radar sensors may not be able to detect and activate BSI/BSW when certain objects are present such as:
  - Pedestrians, bicycles, animals
  - Several types of vehicles such as motorcycles
  - Oncoming vehicles
  - Vehicles remaining in the detection zone when you accelerate from a stop (See “BSW/BSI DRIVING SITUATIONS” later in this section)
  - A vehicle merging into an adjacent lane at a speed approximately the same as your vehicle (See “BSW/BSI DRIVING SITUATIONS” later in this section)
  - A vehicle approaching rapidly from behind. (See “BSW/BSI DRIVING SITUATIONS” later in this section)
  - A vehicle which your vehicle overtakes rapidly. (See “BSW/BSI DRIVING SITUATIONS” later in this section)
- Severe weather or road spray conditions may reduce the ability of the radar to detect other vehicles.
• The radar sensors detection zone is designed based on a standard lane width. When driving in a wider lane, the radar sensors may not detect vehicles in an adjacent lane. When driving in a narrow lane, the radar sensors may detect vehicles driving two lanes away.

• The radar sensors are designed to ignore most stationary objects, however objects such as guardrails, walls, foliage and parked vehicles may occasionally be detected. This is a normal operating condition.

• The camera may not detect lane markers in the following situations and the BSI system may not operate properly.
  – On roads where there are multiple parallel lane markers; lane markers that are faded or not painted clearly; yellow painted lane markers; non-standard lane markers; lane markers covered with water, dirt, snow, etc.
  – On roads where discontinued lane markers are still detectable.
  – On roads where there are sharp curves.
  – On roads where there are sharply contrasting objects, such as shadows, snow, water, wheel ruts, seams or lines remaining after road repairs.

  – On roads where the traveling lane merges or separates.
  – When the vehicle's traveling direction does not align with the lane markers.
  – When traveling close to the vehicle in front of you, which obstructs the lane camera unit detection range.
  – When rain, snow or dirt adheres to the windshield in front of a lane camera unit.
  – When the headlights are not bright due to dirt on the lens or if aiming is not adjusted properly.
  – When strong light enters a lane camera unit. (e.g. light directly shines on the front of the vehicle at sunrise or sunset.)
  – When a sudden change in brightness occurs. (e.g. when the vehicle enters or exits a tunnel or under a bridge.)

BSW/BSI DRIVING SITUATIONS
Another vehicle approaching from behind

The BSW/BSI indicator light illuminates if a vehicle enters the detection zone from behind in an adjacent lane.

However, if the overtaking vehicle is traveling much faster than your vehicle, the indicator light may not illuminate before the detected vehicle is beside your vehicle. 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.
If the driver activates the turn signal, then the BSW/BSI indicator light flashes and a chime will sound twice.

**NOTE:**
If the driver activates the turn signal before a vehicle enters the detection zone, the BSW/BSI indicator light will flash but no chime will sound when the other vehicle is detected.

If the BSI system is on and your vehicle is approaching a lane marker, the BSW/BSI indicator light flashes and a chime will sound three times. Then the BSI system slightly applies the brakes on one side to help return the vehicle back to the center of the driving lane.

**NOTE:**
If you accelerate from a stop with a vehicle in the detection zone, the other vehicle may not be detected.

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Overtaking other vehicles

The BSW/BSI indicator light illuminates if you overtake a vehicle and that vehicle stays in the detection zone for approximately 3 seconds. The radar sensors may not detect slower moving vehicles if they are passed quickly.

If the driver activates the turn signal while another vehicle is in the detection zone, then the BSW/BSI indicator light flashes and a chime will sound twice.

If the BSI system is on and your vehicle approaches a lane marker while another vehicle is in the detection zone, the BSW/BSI indicator light flashes and a chime will sound three times. Then, the BSI system slightly applies the brakes on one side to help return the vehicle back to the center of the driving lane.
NOTE:
When overtaking several vehicles in a row, the vehicles after the first vehicle may not be detected if they are traveling close together.

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.

Entering from the side
The BSW/BSI indicator light illuminates if a vehicle enters the detection zone from either side.

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If the driver activates the turn signal, then the BSW/BSI indicator light flashes and a chime will sound twice.

**NOTE:**

If the driver activates the turn signal before a vehicle enters the detection zone, the BSW/BSI indicator light will flash but no chime will sound when another vehicle is detected.

If the BSI system is on and your vehicle approaches the lane marker while another vehicle is in the detection zone, the BSW/BSI indicator light flashes and a chime will sound three times. Then, the BSI system slightly applies the brakes on one side to help return the vehicle back to the center of the driving lane.

**NOTE:**

- The BSI system will not operate if your vehicle is on a lane marker when another vehicle enters the detection zone. In this case only the BSW system operates.
- BSI braking will not operate or will stop operating and only a warning chime will sound under the following conditions.
  - When the brake pedal is depressed.
  - When the accelerator pedal is depressed while brake control assist is provided.
  - When steering quickly
  - When the ICC, DCA, FCW or IBA warnings sound.
– When the hazard warning flashers are operated.
– When driving on a curve at a high speed.

### BSW/BSI temporarily not available

- Under the following conditions, the BSI system will be turned off automatically, a beep will sound and the BSI ON indicator light (green) will blink. The BSW system is still available, but the BSI system will not be available until the conditions no longer exist.
  - When the VDC system (except TCS function) or ABS operates.
  - When the VDC system is turned off.
  - When the drive mode select switch is turned to the SNOW mode.

**Action to take:**

Turn off the BSI system and turn it on again when the above conditions no longer exist.

- Under the following conditions, the BSW and BSI systems will be turned off automatically, a beep will sound and the BSW/BSI system warning light (orange) will blink. The BSW and BSI systems are not available until the conditions no longer exist.
  - When the camera detects that the interior temperature is high (over approximately 104°F (40°C)).
  - When radar blockage is detected.

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.

**Action to take:**

When the above conditions no longer exist, the BSW system will resume automatically. For the BSI system, turn it off and turn it on again. If the BSW/BSI warning light (orange) continues to blink even after the BSI system is turned on again, stop the vehicle in a safe location and turn the engine off. Check for and remove objects obscuring the radar sensors on the rear bumper, and restart the engine.

If the warning light (orange) continues to blink, have the BSW/BSI systems checked by an INFINITI retailer.

### BSW/BSI MALFUNCTION

When the BSW/BSI systems malfunction, they will be turned off automatically, a beep will sound and the BSW/BSI system warning light (orange) will illuminate.

**Action to take:**

Stop the vehicle in a safe location, turn the engine off and restart the engine.

If the warning light (orange) continues to illuminate, have the BSW/BSI systems checked by an INFINITI retailer.

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SYSTEM MAINTENANCE

- The two radar sensor units ① for the BSW and BSI systems are located near the rear bumper. Always keep the area near the radar sensors clean. 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. Consult an INFINITI retailer if the area around the radar sensors is damaged due to a collision.

- The BSI system uses the same camera ② that is used by the LDW/LDP system located in front of the inside mirror. For maintenance of the camera, see “LANE DEPARTURE WARNING (LDW) SYSTEM/LANE DEPARTURE PREVENTION (LDP) SYSTEM” earlier in this section.

Radio frequency statement

This device complies with part 15 of the FCC Rules and RSS-310 of Industry Canada.

Operation is subject to the following two conditions:
1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

Frequency of operation: 24.05GHz — 24.25GHz
Field Strength: Not greater than 2.5V/m peak (0.25V/m average) at a distance of 3 m

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

CRUISE CONTROL

PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it will cancel automatically. The SET indicator on the dot matrix crystal display will then blink to warn the driver.

- If the engine coolant temperature becomes excessively high, the cruise control system will be canceled automatically.

- If the SET indicator blinks, turn the cruise control main switch off and have the system checked by your INFINITI retailer.

- The SET indicator may sometimes blink when the cruise control main switch is turned ON while pushing the RESUME/ACCELERATE, SET/COAST or CANCEL switch. To properly set the cruise control system, perform the steps below in the order indicated.

**WARNING**

Do not use the cruise control 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

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● 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.

1. RESUME/ACCELERATE switch
2. SET/COAST switch
3. CANCEL switch
4. MAIN (ON-OFF) switch

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 to 90 MPH (40 to 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the MAIN switch on. The CRUISE indicator will come on.

To set cruising speed, accelerate your vehicle to the desired speed, push the SET/COAST switch and release it. (The CRUISE SET indicator will come on in the instrument panel.) 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 on winding or hilly roads. If this happens, drive without the cruise control.

To cancel the preset speed, follow any of these methods:
   a) Push the CANCEL button. The SET indicator will go out.
   b) Tap the brake pedal. The SET indicator will go out.
   c) Move the selector lever to the N (Neutral) position. The SET indicator will go out.
   d) Turn the MAIN switch off. Both the CRUISE indicator and SET indicator will go out.

If you depress the brake pedal while pushing the RESUME/ACCELERATE or SET/COAST switch and reset at the cruising speed, the cruise control will disengage. Turn the MAIN switch off once and then turn it on again.

The cruise control will automatically cancel if the vehicle slows more than 7 MPH (12 km/h) below the set speed.
If you move the selector lever to N (Neutral) position, the cruise control will be canceled.

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/COAST switch.
- Push and hold the RESUME/ACCELERATE switch. When the vehicle attains the speed you desire, release the switch.
- Push, then quickly release the RESUME/ACCELERATE switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

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/COAST switch and release it.
- Push and hold the SET/COAST switch. Release the switch when the vehicle slows down to the desired speed.
- Push, then quickly release the SET/COAST switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the RESUME/ACCELERATE switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

The Intelligent Cruise Control (ICC) system maintains a selected distance from the vehicle in front of you within the speed range of 0 to 90 MPH (0 to 144 km/h) up to the set speed. The set speed can be selected by the driver between 20 to 90 MPH (32 to 144 km/h).

The ICC function can be set to one of two cruise control modes:
- Vehicle-to-vehicle distance control mode:
  For maintaining a selected distance between your vehicle and the vehicle in front of you up to the preset speed.
- Conventional (fixed speed) cruise control mode:
  For cruising at a preset speed.

**WARNING**
- Always drive carefully and attentively when using either cruise control mode. Read and understand the Owner's Manual thoroughly before using the 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.

1. Vehicle-to-vehicle distance control mode
2. Conventional (fixed speed) cruise control mode

Push the MAIN switch A to choose the cruise control mode between the vehicle-to-vehicle distance control mode ① and the conventional (fixed speed) cruise control mode ②.

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch A. To choose the conventional (fixed speed) cruise control mode ②, push and hold the MAIN switch A for longer than approximately 1.5 seconds.

Once a control mode is activated, it cannot be changed to the other cruise control mode. To change the mode, push the MAIN switch once to turn the system off. Then push the MAIN switch again to turn the system back on and select the desired cruise control mode.

Always confirm the setting in the Intelligent Cruise Control system display.

For the vehicle-to-vehicle distance control mode, see the following description. For the conventional (fixed speed) cruise control mode, see page 5-59.
SELECTING THE VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch A.

VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

In the vehicle-to-vehicle distance control mode, the Intelligent Cruise Control (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.

With ICC, the driver can maintain the same speed as other vehicles without the constant need to adjust the set speed as you would with a normal cruise control system.

PRECAUTIONS ON VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE

The system is intended to enhance the operation of the vehicle when following a vehicle traveling in the same lane and direction.

If the distance sensor A 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 25% of vehicle braking power) if necessary.

The detection range of the sensor is approximately 390 ft (120 m) ahead.

WARNING

● This system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

● The system is primarily intended for use on straight, dry, open roads with light traffic. It is not advisable to use the system in city traffic or congested areas.

● This system will not adapt automatically to road conditions. This system should be used in evenly flowing traffic. Do not use the system on roads with sharp curves, or on icy roads, in heavy rain or in fog.

The distance sensor will not detect under most conditions:

● Stationary and slow moving vehicles
● Pedestrians or objects in the roadway
● Oncoming vehicles in the same lane
● Motorcycles traveling offset in the travel lane
As there is a performance limit to the distance control function, never rely solely on the Intelligent Cruise Control system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by depressing the brake pedal, depending on the distance to the vehicle ahead and the surrounding circumstances in order to maintain a safe distance between vehicles.

If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system. The system will cancel once it judges that the vehicle has come to a standstill and sound a warning chime. To prevent the vehicle from moving, the driver must depress the brake pedal.

The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the Intelligent Cruise Control 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 the windshield wiper is operated at the high speed (HI) position, the Intelligent Cruise Control system is automatically canceled. If the vehicle is equipped with a rain sensing auto wiper, the system may cancel when the wipers are set to the AUTO position.

- When strong light (for example, at sunrise or sunset) is directly shining on the front of the vehicle
- 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

Do not use the Intelligent Cruise Control system if you are towing a trailer. The system may not detect a vehicle ahead.

In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the ICC system when it is not recommended in this section.
VEHICLE-TO-VEHICLE DISTANCE CONTROL MODE OPERATION

Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The vehicle-to-vehicle distance control mode of the Intelligent Cruise Control (ICC) system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.

The vehicle-to-vehicle distance control mode uses a sensor located on the front of the vehicle to detect vehicles traveling ahead. The sensor generally detects the signals returned from the reflectors on a vehicle ahead. Therefore, if the sensor cannot detect the reflector on 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 reflector of the vehicle ahead is positioned high on the vehicle (trailer, etc.)
- When the reflector on the vehicle ahead is missing, damaged or covered
- When the reflector of the vehicle ahead is covered with dirt, snow and road spray
- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When dense exhaust or other smoke (black smoke) from vehicles reduces the sensor’s visibility
- When excessively heavy baggage is loaded in the rear seat or the trunk of your vehicle

The ICC system is designed to automatically check the sensor's operation within the limitations of the system. When the sensor is covered with dirt or obstructs, 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 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 25% 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 15 MPH (24 km/h) and a vehicle is not detected ahead. The system will also disengage when the vehicle goes above the maximum set speed. See “Approach warning” later in this section.
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 between approximately 20 and 90 MPH (32 and 144 km/h).

- 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.

The detection zone of the ICC 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 ICC 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.

When driving on the freeway at a set speed and approaching a slower traveling vehicle ahead, the ICC 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.
Intelligent cruise control system

The system is operated by a MAIN switch and four control switches, all mounted on the steering wheel.

1) RESUME/ACCELERATE switch:
   Resumes set speed or increases speed incrementally.

2) SET/COAST switch:
   Sets desired cruise speed, reduces speed incrementally.

3) CANCEL switch:
   Deactivates the system without erasing the set speed.

4) DISTANCE switch:
   Changes the vehicle's following distance:
   - Long
   - Middle
   - Short

5) MAIN switch:
   Master switch to activate the system

Intelligent cruise control system display and indicators

The display is located between the speedometer and tachometer.

1) MAIN switch indicator:
   Indicates that the MAIN switch is ON.

2) Vehicle ahead detection indicator:
   Indicates whether it detects a vehicle in front of you.

3) Set distance indicator:
   Displays the selected distance between vehicles set with the DISTANCE switch.

4) Indicates your vehicle
5) Set vehicle speed indicator:
   Indicates the set vehicle speed.
   For Canadian models, the speed is displayed in km/h.
6) Intelligent Cruise Control system warning light (orange):
   The light comes on if there is a malfunction in the ICC system.

When the ignition switch is pushed to the ON position, the indicators come on as illustrated to check for a burned-out bulb, and it turns off when the engine is started.

Operating vehicle-to-vehicle distance control mode

To turn on the cruise control, quickly push and release the MAIN switch \( \text{A} \) on. The MAIN switch indicator, 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/COAST switch and release it. (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/COAST switch is pushed under the following conditions, the system cannot be set and the ICC indicators will blink for approximately 2 seconds:

- When traveling below 20 MPH (32 km/h) and the vehicle ahead is not detected
- When the selector lever is not in the D or Manual mode
- When the windshield wipers are operating at high speed (HI). If the vehicle is equipped with a rain sensing auto wiper, the system may cancel when the wipers are set to the AUTO position.

- When the parking brake is applied
- When the brakes are operated by the driver
When the SET/COAST switch is pushed under the following conditions, the system cannot be set.

A warning chime will sound and the ICC indicators will blink.

- When the drive mode select switch is turned to the SNOW mode (To use the ICC system, turn the drive mode select switch to a mode other than the SNOW mode, push the MAIN switch to turn off the ICC and reset the ICC switch by pressing the MAIN switch again.)

For details about the INFINITI drive mode selector, see “INFINITI DRIVE MODE SELECTOR” later in this section.

- When the VDC system is off (To use the ICC system, turn on the VDC system. Push the MAIN switch to turn off the ICC system and reset the ICC switch by pushing the MAIN switch again.)

For details about the VDC system, see “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” later in this section.

- When ABS or VDC (including the traction control system) is operating

- When driving into a strong light (i.e., sunlight)

- When a wheel is slipping (To use the ICC system, make sure the wheels are no longer slipping. Push the MAIN switch to turn off the ICC, and reset the ICC system by pushing the MAIN switch again.)
System operation

1. System set display with vehicle ahead
2. System set display without vehicle ahead

Vehicle detected ahead:
When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

The stoplights of the vehicle come on and the brake pedal depresses 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 15 MPH (24 km/h), 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 MAIN switch off. Both the MAIN switch indicator and set vehicle speed indicator 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/COAST switch.
- Push and hold the RESUME/ACCELERATE switch. The set vehicle speed will increase by approximately 5 MPH (5 km/h for Canada).
- Push, then quickly release the RESUME/ACCELERATE switch. Each time you do this, the set speed will increase by approximately 1 MPH (1 km/h for Canada).

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/COAST switch and release it.
- Push and hold the SET/COAST switch. The set vehicle speed will decrease by approximately 5 MPH (5 km/h for Canada).
Push, then quickly release the SET/COAST switch. Each time you do this, the set speed will decrease by approximately 1 MPH (1 km/h for Canada).

To resume the preset speed, push and release the RESUME/ACCELERATE switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 20 MPH (32 km/h).

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.
The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.

If the engine is stopped, the set distance becomes “long”. (Each time the engine is started, the initial setting becomes “long”.)

---

### Approach warning

If your vehicle comes closer to the vehicle ahead due to rapid deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection and set distance 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.

---

<table>
<thead>
<tr>
<th>Distance</th>
<th>Display</th>
<th>Approximate distance at 60 MPH (96 km/h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long</td>
<td><img src="image1.png" alt="Image" /></td>
<td>230 (600)</td>
</tr>
<tr>
<td>Medium</td>
<td><img src="image2.png" alt="Image" /></td>
<td>150 (450)</td>
</tr>
<tr>
<td>Short</td>
<td><img src="image3.png" alt="Image" /></td>
<td>130 (220)</td>
</tr>
</tbody>
</table>

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
NOTE:
The approach warning chime may sound and the system display may blink when the ICC sensor detects some reflectors \( A \) which are fitted on vehicles in other lanes or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The ICC sensor may detect these reflectors when the vehicle is driven on winding roads, hilly roads or when entering or exiting a curve. The ICC sensor may also detect reflectors on narrow roads or in road construction zones. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).

Automatic cancellation
A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle ahead is not detected and your vehicle is traveling below the speed of 15 MPH (24 km/h)
- When the system judges the vehicle is at standstill
- When the selector lever is not in the D or Manual mode
- When the windshield wipers are operating at high speed (HI). If the vehicle is equipped with a rain sensing auto-wiper, the system may cancel when the wipers are set to the AUTO position.
- When the parking brake is applied
- When the drive mode select switch is turned to the SNOW mode
- When the VDC system is turned off
- When ABS or VDC (including the traction control system) operates
- When driving into a strong light (i.e., sunlight)
- When distance measurement becomes impaired due to adhesion of dirt or obstruction to the sensor
- When a wheel slips
Warning light and display

Condition A:
Under the following conditions, the Intelligent Cruise Control system is automatically canceled. The chime will sound and the system will not be able to be set.

- When the VDC is turned off
- When the ABS or VDC (including the traction control system) operates
- When a tire slips
- When the drive mode select switch is turned to the SNOW mode
- When strong light (sunlight, etc.) is directly shining on the front of the vehicle

Action to take:
When the conditions listed above are no longer present, turn the system off using the Intelligent Cruise Control MAIN Switch. Turn the ICC system back on to use the system.

Condition B:
When the sensor window is dirty, making it impossible to detect a vehicle ahead, the ICC system is automatically canceled.

The chime sounds and the ICC system warning light (orange) will come on and the “CLEAN SENSOR” indicator will appear.

Action to take:
If the warning light comes on, park the vehicle in a safe place, turn the engine off. Clean the sensor window with a soft cloth and then perform the settings again.
Condition C:

When the ICC system is not operating properly, the chime sounds and the ICC system warning light (orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and set the ICC system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the ICC system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

Sensor maintenance

The sensor for the ICC system is located below the front bumper.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor clean. Wipe with a soft cloth carefully so as not to damage the sensor.
- Do not strike or damage the areas around the sensor. Do not touch or remove the screw located on the sensor. Doing so could cause failure or malfunction. If the sensor is damaged due to an accident, contact an INFINITI retailer.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.

CONVENTIONAL (FIXED SPEED) CRUISE CONTROL MODE

This mode allows driving at a speed between 25 to 90 MPH (40 to 144 km/h) 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 Intelligent Cruise Control system display.
- Do not use the conventional (fixed speed) cruise control mode when driving under the following conditions:
  - when it is not possible to keep the vehicle at a set speed
– in heavy traffic or in traffic that varies in speed
– on winding or hilly roads
– on slippery roads (rain, snow, ice, etc.)
– in very windy areas
- Doing so could cause a loss of vehicle control and result in an accident.

Conventional (fixed speed) cruise control switch

1) RESUME/ACCELERATE switch:
   Resumes set speed or increases speed incrementally.

2) SET/COAST switch:
   Sets the desired cruise speed, reduces speed incrementally.

3) CANCEL switch:
   Deactivates the system without erasing the set speed.

4) MAIN switch:
   Master switch to activate the system.

Conventional (fixed speed) cruise control mode display and indicators

The display is located between the speedometer and tachometer.

1) MAIN switch indicator:
   Indicates that the MAIN switch is ON.

2) Cruise set switch indicator:
   Displays while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.

3) Cruise system warning light:
   Comes on if there is a malfunction in the cruise control system.

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Operating conventional (fixed speed) cruise control mode

To turn on the conventional (fixed speed) cruise control mode, push and hold the MAIN switch for longer than about 1.5 seconds. When pushing the MAIN switch on, the Intelligent Cruise Control system display and the CRUISE indicator are displayed on the dot matrix crystal display. After you hold the MAIN switch on for longer than about 1.5 seconds, the Intelligent Cruise Control system display goes out. The CRUISE indicator stays lit. You can now set your desired cruising speed. Pushing the MAIN switch again will turn the system completely off.

When the Distance Control Assist (DCA) system is on, the conventional (fixed speed) cruise control mode cannot be turned on even though the MAIN switch is pushed and held.

To turn on the conventional (fixed speed) cruise control mode, turn off the DCA system. See “DISTANCE CONTROL ASSIST (DCA) SYSTEM” later in this section.

When the ignition switch is pushed to the OFF position, the system is also automatically turned off. To use the Intelligent Cruise Control again, quickly push and release the MAIN switch (vehicle-to-vehicle distance control mode) or push and hold it (conventional cruise control mode) again to turn it on.

**CAUTION**

To avoid accidentally engaging cruise control, make sure to turn the MAIN switch off when not using the Intelligent Cruise Control system.

To set cruising speed, accelerate your vehicle to the desired speed, push the SET/COAST switch and release it. (The SET indicator will come on in the display.) 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:

a) Push the CANCEL button. The SET indicator will go out.
b) Tap the brake pedal. The SET indicator will go out.

c) Turn the MAIN switch off. Both the CRUISE indicator and SET indicator will go out.

**To reset at a faster cruising speed**, use one of the following three methods:

a) Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET/COAST switch.

b) Push and hold the RESUME/ACCELERATE switch. When the vehicle attains the speed you desire, release the switch.

c) Push, then quickly release the RESUME/ACCELERATE switch. Each time you do this, the set speed will increase by about 1 MPH (1.6 km/h).

**To reset at a slower cruising speed**, use one of the following three methods:

a) Lightly tap the brake pedal. When the vehicle attains the desired speed, push the SET/COAST switch and release it.

b) Push and hold the SET/COAST switch. Release the switch when the vehicle slows down to the desired speed.

c) Push, then quickly release the SET/COAST switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

**To resume the preset speed**, push and release the RESUME/ACCELERATE switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

**Automatic cancellation**

A chime sounds under the following conditions and the control is automatically canceled.

- When the vehicle slows down more than 8 MPH (13 km/h) below the set speed
- When the vehicle speed falls below approximately 20 MPH (32 km/h)
- When the selector lever is not in the D (Drive) or manual shift mode
- When the parking brake is applied.
- When the VDC operates (including the traction control system)
- When a tire slips

**Warning light**

When the system is not operating properly, the chime sounds and the system warning light (orange) will come on.

**Action to take**: If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, resume driving and then perform the setting again.

If it is not possible to set or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

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PREVIEW FUNCTION (for Intelligent Cruise Control system equipped models)

The ICC system with the preview function identifies the need to apply emergency braking by sensing the vehicle ahead in the same lane and the distance to the vehicle ahead and relative speed from it, it applies the brake pre-pressure before the driver depresses the brake pedal and helps improve brake response by reducing pedal free play.

For more details, see “BRAKE ASSIST” later in this section.

DISTANCE CONTROL ASSIST (DCA) SYSTEM (if so equipped)

The Distance Control Assist (DCA) system brakes and moves the accelerator pedal upward according to the distance from and the relative speed of the vehicle ahead to help assist the driver to maintain a following distance.

**WARNING**

- Always drive carefully and attentively when using the Distance Control Assist system. Read and understand the Owner’s Manual thoroughly before using the DCA system. To avoid serious injury or death, do not rely on the system to prevent accidents or to control the vehicle’s speed in emergency situations. Do not use the Distance Control Assist system except in appropriate road and traffic conditions.
- 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 with a warning chime. To prevent the vehicle from moving, the driver must depress the brake pedal.
- The DCA system will not apply brake control while the driver’s foot is on the accelerator pedal.

**PRECAUTIONS ON DISTANCE CONTROL ASSIST SYSTEM**

The system is intended to assist the driver to keep a following distance from the vehicle ahead traveling in the same lane and direction. If the distance sensor detects a slower moving vehicle ahead, the system will reduce the vehicle speed to help assist the driver to maintain a following distance.

The system automatically controls the throttle and applies the brakes (up to 25% of vehicle braking power) if necessary.

The detection range of the sensor is approximately 390 ft (120 m) ahead.
WARNING

- This system is only an aid to assist the driver and is not a collision warning or avoidance device. It is the driver’s responsibility to stay alert, drive safely and be in control of the vehicle at all times.
- This system will not adapt automatically to road conditions. Do not use the system on roads with sharp curves, or on icy roads, in heavy rain or in fog.

The distance sensor will not detect the following objects:
- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles traveling offset in the travel lane

WARNING

- As there is a performance limit to the distance control function, never rely solely on the Distance Control Assist 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.
- The system may not detect the vehicle in front of you in certain road or weather conditions. To avoid accidents, never use the Distance Control Assist system under the following conditions:
  - On roads with sharp curves
  - On slippery road surfaces such as on ice or snow, etc.
  - During bad weather (rain, fog, snow, etc.)
  - When strong light (for example, at sunrise or sunset) is directly shining on the front of the vehicle
  - When rain, snow or dirt adhere to the system sensor

- On steep downhill roads (frequent braking may result in overheating the brakes)
- On repeated uphill and downhill roads
- Do not use the Distance Control Assist system if you are towing a trailer. The system may not detect a vehicle ahead.
- In some road or traffic conditions, a vehicle or object can unexpectedly come into the sensor detection zone and cause automatic braking. You may need to control the distance from other vehicles using the accelerator pedal. Always stay alert and avoid using the DCA system when it is not recommended in this section.

Starting and driving

5-63
DISTANCE CONTROL ASSIST
OPERATION

Always pay attention to the operation of the vehicle and be ready to manually decelerate to maintain the proper following distance. The Distance Control Assist (DCA) system may not be able to decelerate the vehicle under some circumstances.

The DCA system uses a sensor A located on the front of the vehicle to detect vehicles traveling ahead. The sensor generally detects the signals returned from the reflectors on a vehicle ahead. Therefore, if the sensor cannot detect the reflector on the vehicle ahead, the DCA system may not operate.

The following are some conditions in which the sensor cannot detect the signals:

- When the reflector of the vehicle ahead is positioned high on the vehicle (trailer, etc.)
- When the reflector on the vehicle ahead is missing, damaged or covered
- When the reflector of the vehicle ahead is covered with dirt, snow and road spray
- When the snow or road spray from traveling vehicles reduces the sensor's visibility
- When dense exhaust or other smoke (black smoke) from vehicles reduces the sensor's visibility
- When excessively heavy baggage is loaded in the rear seat or the luggage room of your vehicle

The DCA system is designed to automatically check the sensor's operation. 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 DCA system may not detect them. In these instances, the Distance Control Assist (DCA) system may not be able to decelerate the vehicle properly. Be sure to check and clean the sensor regularly.

The DCA system is designed to help assist the driver to maintain a following distance from the vehicle ahead. The system will decelerate as necessary and if the vehicle ahead comes to a stop, the vehicle decelerates to a standstill. However, the DCA system can only apply up to 25% of the vehicle's total braking power. 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 DCA system cannot decelerate the vehicle quickly enough. If this occurs, the DCA system will sound a warning chime and blink the system display to notify the driver to take necessary action.

See “Approach warning” later in this section.

This system only brakes and moves the accelerator pedal upward to help assist the driver to maintain a following distance from the vehicle ahead. Acceleration should be operated by the driver.

The DCA 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.
The detection zone of the sensor is limited. A vehicle ahead must be in the detection zone for the system to operate.

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 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 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.

5-66 Starting and driving

Distance Control Assist system display and indicators

The display is located between the speedometer and tachometer.

1) Distance Control Assist (DCA) system switch indicator:
   Indicates that the dynamic driver assistance switch is ON.

2) Vehicle ahead detection indicator:
   Indicates whether it detects a vehicle in front of you.

3) Distance Control Assist system warning light (orange):
   The light comes on if there is a malfunction in the DCA system.
Operating Distance Control Assist (DCA) system

The DCA system is turned on if you push the dynamic driver assistance switch on the steering wheel after starting the engine. The Distance Control Assist (DCA) system switch indicator light in the dot matrix liquid crystal display will illuminate. Push the dynamic driver assistance switch again to turn off the DCA system. The Distance Control Assist (DCA) system switch indicator light will turn off.

The system will start to operate after the vehicle speed becomes above approximately 3 MPH (5 km/h).

WARNING

When the DCA system is not necessary, be sure to turn off the dynamic driver assistance switch. Using the system when it is not necessary may result in an accident.
Changing the dynamic driver assistance switch settings:

The dynamic driver assistance switch will turn on and off the LDP, BSI and DCA systems at the same time when each system is enabled using the settings menu on the center display.

1. Push the SETTING button and highlight the “Driver Assistance” key on the display using the INFINITI controller. Then push the ENTER button.

2. Highlight the “Dynamic Assistance settings” key, and push the ENTER button.

3. Highlight the “Distance Control Assist” key, select ON (enabled) or OFF (disabled) and push the ENTER button. The factory default setting is set to ON (enabled).

If you set all of the systems to disable and push the dynamic driver assistance switch, the indicator of the disabled system will blink for about 4 seconds and turn off. See “LANE DEPARTURE WARNING (LDW) SYSTEM/LANE DEPARTURE PREVENTION (LDP) SYSTEM” earlier in this section and “BLIND SPOT WARNING (BSW) SYSTEM/BLIND SPOT INTERVENTION™ (BSI) SYSTEM” later in this section.

Under the following conditions, the Distance Control Assist system will not operate and the Distance Control Assist (DCA) system switch indicator light will blink:

- When the drive mode select switch is turned to the SNOW mode (To use the DCA system, turn the drive mode select switch to a mode other than the SNOW mode, then turn on the dynamic driver assistance switch.)

For details about the INFINITI drive mode selector, see “INFINITI DRIVE MODE SELECTOR” in the “5. Starting and driving” section.
● When the VDC system is off (To use the DCA system, turn on the VDC, then push the dynamic driver assistance switch.)

For details about the VDC system, see “VEHICLE DYNAMIC CONTROL (VDC) SYSTEM” later in this section.

● When ABS or VDC (including the traction control system) is operating

● When driving into a strong light (i.e., sunlight)

When the Conventional (fixed speed) cruise control mode is operating, the DCA system will not operate. (To use the DCA system, turn the Conventional (fixed speed) cruise control mode off, then push the dynamic driver assistance switch.)

For details about the Conventional (fixed speed) cruise control mode, see “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” earlier in this section.

When the engine is turned off, the system is automatically turned off.

### System operation

1. System set display with vehicle ahead
2. System set display without vehicle ahead

#### WARNING

The Distance Control Assist system automatically decelerates your vehicle to help assist the driver to maintain a following distance from the vehicle ahead. Manually brake when deceleration is required to maintain a safe distance upon sudden braking by the vehicle ahead or when a vehicle suddenly appears in front of you. Always stay alert when using the DCA system.
The Distance Control Assist (DCA) system helps assist the driver to keep a following distance to the vehicle ahead by braking and moving the accelerator pedal upward in the normal driving condition.

**When a vehicle is detected ahead:**

The vehicle ahead detection indicator comes on.

**When vehicle approaches a vehicle ahead:**

- If the driver's foot is not on the accelerator pedal, the system activates the brakes to decelerate smoothly as necessary. If the vehicle ahead comes to a stop, the vehicle decelerates to a standstill within the limitations of the system.
- If the driver's foot is on the accelerator pedal, the system moves the accelerator pedal upward to assist the driver to release the accelerator pedal.

**When brake operation by driver is required:**

The system alerts the driver by a warning chime and blinking the vehicle ahead detection indicator. If the driver's foot is on the accelerator pedal after the warning, the system moves the accelerator pedal upward to assist the driver to switch to the brake pedal.

The stoplights of the vehicle come on and the brake pedal depresses when braking is performed by the DCA system.

When the brake operates, a noise may be heard. This is not a malfunction.

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>● When the vehicle ahead detection indicator light is not illuminated, system will not control or warn the driver.</td>
</tr>
<tr>
<td>● Never place your foot under the brake pedal. Your foot may be caught when the system controls the brake.</td>
</tr>
<tr>
<td>● Depending on the position of the accelerator pedal, the system may not be able to assist the driver to release the accelerator pedal appropriately.</td>
</tr>
<tr>
<td>● If the vehicle ahead comes to a standstill, the vehicle decelerates to a standstill within the limitations of the system. The system will release brake control with a warning chime once it judges the vehicle is at a standstill. To prevent the vehicle from moving, the driver must depress the brake pedal. (The system will resume control automatically once the system reaches 3 MPH (5 km/h)).</td>
</tr>
</tbody>
</table>

**Overriding the system:**

The following driver's operation overrides the system operation.

- When the driver depresses the accelerator pedal even further while the system is moving the accelerator pedal upward, the DCA system control of the accelerator pedal is canceled.
- When the driver's foot is on the accelerator pedal, the brake control by the system is not operated.
- When the driver's foot is on the brake pedal, neither the brake control nor the alert by the system operates.
- When the Intelligent Cruise Control system is set, the DCA system will be cancelled.

**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 DCA system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The chime sounds.
- The vehicle ahead detection indicator blinks.
The warning chime may not sound in some cases when there is a short distance between vehicles. Some examples are:

- When the vehicles are traveling at the same speed and the distance between vehicles is not changing
- When the vehicle ahead is traveling faster and the distance between vehicles is increasing
- When a vehicle cuts in near your vehicle

The warning chime will not sound when your vehicle approaches vehicles that are parked or moving slowly.

NOTE:

The approach warning chime may sound and the system display may blink when the sensor detects some reflectors which are fitted on vehicles in other lanes or on the side of the road. This may cause the DCA system to operate inappropriately. The sensor may detect these reflectors when the vehicle is driven on winding roads, hilly roads or when entering or exiting a curve. The sensor may also detect reflectors on narrow roads or in road construction zones. In these cases you will have to manually control the proper distance ahead of your vehicle.

Also, the sensor sensitivity can be affected by vehicle operation (steering maneuver or driving position in the lane) or traffic or vehicle condition (for example, if a vehicle is being driven with some damage).
Automatic cancellation

Condition A:
Under the following conditions, the Distance Control Assist system is automatically canceled. The chime will sound and the Distance Control Assist (DCA) system switch indicator light will blink. The system will not be able to be set.

- When the VDC system is turned off
- When the VDC or ABS (including the traction control system) operates
- When the drive mode select switch is turned to the SNOW mode

Action to take:
When the conditions listed above are no longer present, turn the system off with the dynamic driver assistance switch. Turn the DCA system back on to use the system.

Condition B:
When the sensor window is dirty, making it impossible to detect a vehicle ahead, the DCA system is automatically canceled. The chime sounds and the system warning light (orange) will come on and the “CLEAN SENSOR” indicator will appear.

Action to take:
If the warning light comes on, park the vehicle in a safe place, turn the engine off. Clean the sensor window with a soft cloth and then perform the settings again.

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Condition C:

When the DCA system is not operating properly, the chime sounds and the system warning light ("CRUISE" orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine, and turn on the DCA system again.

If it is not possible to set the system or the indicator stays on, it may indicate that the system is malfunctioning. Although the vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

Sensor maintenance

How to handle the sensor:

The sensor for the DCA system is common with Intelligent Cruise Control and is located below the front bumper.

To handle the sensor, see “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” earlier in this section.

FORWARD COLLISION WARNING (FCW) SYSTEM (if so equipped)

The Forward Collision Warning (FCW) system will warn the driver by the vehicle ahead detection indicator light and chime when your vehicle is getting close to the vehicle ahead in the traveling lane.

The FCW system will function when your vehicle is driven at speeds of approximately 10 MPH (15 km/h) and above.
The FCW system uses the distance sensor located below the front bumper to measure the distance to the vehicle ahead. When the system judges that your vehicle is getting close to the vehicle ahead in the travel lane, the vehicle ahead detection indicator light on the instrument panel blinks and a warning chime sounds.

The FCW system will be turned on/off by pushing the warning systems switch. The warning systems ON indicator light on the switch will illuminate when the system turns on.

**PRECAUTIONS ON FCW SYSTEM**

**WARNING**

- The FCW system is intended to warn you before a collision but will not avoid a collision. It is the driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.
- As there is a performance limit, the system may not provide a warning in certain conditions.
- The system will not detect the following objects:
  - Pedestrians, animals or obstacles in the roadway
  - Oncoming vehicles in the same lane
- The system will not detect another vehicle under the following conditions:
  - When the sensor gets dirty and it is impossible to detect the distance from the vehicle ahead.
  - When driving into a strong light (i.e., sunlight)
The sensor generally detects the signals returned from the reflectors on a vehicle ahead. Therefore, the system may not function properly under the following conditions:

- When the reflectors of the vehicle ahead are positioned high or close to each other (including a small vehicle such as motorcycles).
- When the sensor gets dirty or it is impossible to detect the distance from the vehicle ahead.
- When the reflectors on the vehicle ahead are missing, damaged or covered.
- When visibility is low (such as rain, fog, snow, etc.).
- When snow or road spray from traveling vehicles is splashed.
- When dense exhaust or other smoke (black smoke) from vehicles reduces the visibility of the sensor.
- When excessively heavy baggage is loaded in the rear seat or the luggage room of your vehicle.
- When abruptly accelerating or decelerating.
- On a steep downhill slope or on roads with sharp curves.
- When there is a highly reflective object near the vehicle ahead (i.e., being very close to another vehicle, signboard, etc.)
- When you are towing a trailer.
- Depending on certain road conditions (curved or beginning of a curve), vehicle conditions (steering position or vehicle position), or the preceding vehicle’s conditions (position in lane, etc.), the system may not function properly. The system may detect highly reflective objects such as reflectors, signs, white markers, and other stationary objects on the road or near the traveling lane and provide unnecessary warning.
- The system may not function in offset conditions.
- The system may not function when the distance to the vehicle ahead is extremely close.
- The system is designed to automatically check the sensor’s functionality. If the sensor is covered with ice, a transparent or translucent plastic bag, etc., the system may not detect them. In these instances the system may not be able to warn the driver properly. Be sure to check and clean the sensor regularly.
- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.
- A sudden appearance of a vehicle in front (i.e., it abruptly cuts in) may not be detected and the system may not warn the driver soon enough.
- The system will be cancelled automatically with a beep sound and the IBA OFF indicator light will illuminate under the following conditions:
  - When the sensor window is dirty
  - When the system malfunctions

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If the IBA OFF indicator light (A) illuminates with a beep sound, pull off the road to a safe location, stop the vehicle and turn the engine off. Check to see if the sensor window is dirty. If the sensor window is dirty, clean it with a soft cloth and restart the engine. If the sensor window is not dirty, restart the engine. If the IBA OFF indicator light continues to illuminate even if the IBA system is turned on with the IBA OFF switch (B), have the system checked by an INFINITI retailer.

To turn on the IBA system, see “INTELLIGENT BRAKE ASSIST (IBA) SYSTEM” later in this section.

NOTE:
If you continue to push the warning systems switch from off to on for over 4 seconds, a chime will sound. This will change the default status of the LDW, BSW and FCW systems to OFF so that these systems will not automatically turn on when the engine is started. If this procedure is repeated, the default status will return to ON.

For the sensor maintenance, see “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” earlier in this section.

FCW system operation

The FCW system will function at speeds of approximately 10 MPH (15 km/h) and above, when the system turns on.

The FCW system is automatically turned on when the engine is started and the warning systems ON indicator (1) illuminates on the switch. You can turn the FCW system off by pushing the warning systems switch on the instrument panel. This switch will turn on and off the LDW, BSW and FCW systems at the same time. See “WARNING SYSTEMS SWITCH” in the “2. Instruments and controls” section for more details.
INTELLIGENT BRAKE ASSIST (IBA) SYSTEM
(if so equipped)

The Intelligent Brake Assist (IBA) system warns the driver by a warning light and chime when there is a risk of a collision with the vehicle ahead in the traveling lane and the driver must take avoidance action immediately. The system helps reduce the rear-end collision speed by applying the brakes when the system judges that the collision cannot be prevented.

The IBA system will function when your vehicle is driven at speeds of approximately 10 MPH (15 km/h) and above, and when your vehicle is driven at speeds approximately 10 MPH (15 km/h) faster than the vehicle ahead.

The IBA system uses a distance sensor located below the front bumper to measure the distance to the vehicle ahead. When the system judges that your vehicle is getting close to the vehicle ahead in the traveling lane, the vehicle ahead detection indicator light on the instrument panel blinks and a warning chime sounds.

The IBA system will be turned on/off by pushing the IBA OFF switch. The IBA OFF indicator light display will illuminate when the system is turned off.

PRECAUTIONS ON IBA SYSTEM

WARNING

- The IBA system is not a collision avoidance system. It is the driver’s responsibility to stay alert, drive safely and be in control of the vehicle at all times.
- As there is a performance limit, the system may not provide a warning or braking in certain conditions.
- The system will not detect the following objects:
  - Pedestrians, animals or obstacles in the roadway
  - Oncoming vehicles in the same lane

Vehicle ahead detection indicator light

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The system will not detect another vehicle under the following conditions:
- When the sensor gets dirty and it is impossible to detect the distance from the vehicle ahead.
- When driving into a strong light (i.e., sunlight).

The sensor generally detects the signals returned from the reflectors on a vehicle ahead. Therefore, the system may not function properly under the following conditions:
- When the reflectors of the vehicle ahead are positioned high or close to each other (including a small vehicle such as motorcycles).
- When the sensor gets dirty and it is impossible to detect the distance from the vehicle ahead.
- When the reflectors on the vehicle ahead are missing, damaged or covered.
- When the reflectors of the vehicle ahead are covered with dirt, snow or road spray.
- When visibility is low (such as rain, fog, snow, etc.).
- When snow or road spray from traveling vehicles is splashed.
- When dense exhaust or other smoke (black smoke) from vehicles reduces the visibility of the sensor.
- When excessively heavy baggage is loaded in the rear seat or the luggage room of your vehicle.
- When abruptly accelerating or decelerating.
- On a steep downhill slope or on roads with sharp curves.
- When there is a highly reflective object near the vehicle ahead (i.e., being very close to another vehicle, signboard, etc.)
- When you are towing a trailer.

Depending on certain road conditions (curved or beginning of a curve), vehicle conditions (steering position or vehicle position), or the preceding vehicle’s conditions (position in lane, etc.), the system may not function properly. The system may detect highly reflective objects such as reflectors, signs, white markers, and other stationary objects on the road or near the traveling lane and provide unnecessary warning.

The system may not function in offset conditions.

- The system may not function when the distance to the vehicle ahead is extremely close.
WARNING

- The system may detect highly reflective objects such as reflectors, signs, white markers and other stationary objects on the road or near the traveling lane. In extreme conditions, detection of these objects may cause the system to function.

- The system is designed to automatically check the sensor's functionality. If the sensor is covered with ice, a transparent or translucent plastic bag, etc., the system may not detect them. In these instances the system may not be able to warn the driver properly. Be sure to check and clean the sensor regularly.

- Excessive noise will interfere with the warning chime sound, and the chime may not be heard.

- Never place your foot under the brake pedal when the IBA system turns on. Your foot may be caught when the system controls the brake.

- A sudden appearance of a vehicle in front (i.e., it abruptly cuts in) may not be detected and the system may not warn the driver soon enough.

- The system will be cancelled automatically with a beep sound and the IBA warning light will illuminate under the following conditions:
  - When the sensor window is dirty
  - When the system malfunctions

If the IBA OFF indicator light illuminates with a beep sound, pull off the road to a safe location, stop the vehicle and turn the engine off. Check to see if the sensor window is dirty. If the sensor window is dirty, clean it with a soft cloth and restart the engine. If the sensor window is not dirty, restart the engine. If the IBA OFF indicator light continues to illuminate even if the IBA system is turned on, have the system checked by an INFINITI retailer.
IBA system operation

The IBA system will function when your vehicle is driven at speeds of approximately 10 MPH (15 km/h) or above, and when the vehicle’s speed is approximately 10 MPH (15 km/h) faster than that of the vehicle ahead.

To turn the system off/on, push and hold the IBA OFF switch for more than 1 second after starting the engine. When the IBA OFF indicator light on the instrument panel turns off and the IBA OFF switch is pushed, the system will turn off and the IBA OFF indicator light will illuminate. When the IBA OFF switch is pushed again, the system will turn on and the IBA OFF indicator light will turn off.

The IBA system will remain in the last ON or OFF state it was left in until it is manually changed by pressing the IBA OFF switch.

Illumination of the IBA OFF indicator light without the warning chime sound is an indication that the IBA system is temporarily unavailable. It will occur under the following conditions:

– When driving into a strong light (for example, sunlight)

The IBA OFF indicator light will turn off when the system returns to its normal operating conditions.

For the sensor maintenance, see “INTELLIGENT CRUISE CONTROL (ICC) SYSTEM” earlier in this section.

CAUTION
During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle.

Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.

**BREAK-IN SCHEDULE**

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- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
INCREASING FUEL ECONOMY

- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway.
- Avoid unnecessary stopping and braking. Keep a safe distance behind other vehicles.
- Select a gear range suitable to road conditions.
- Avoid unnecessary prolonged engine idling.
- Keep your engine tuned up.
- Follow the recommended periodic maintenance schedule.
- Keep the tires inflated at the correct pressure. Improper tire pressure will increase wear and waste fuel.
- Make sure the front wheels are properly aligned. Improper alignment will cause premature tire wear and lower fuel economy.
- Climate control operation lowers fuel economy. Use the air conditioner only when necessary.
- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.

INTELLIGENT ALL-WHEEL DRIVE (AWD) (if so equipped)

If any malfunction occurs in the Intelligent AWD system while the engine is running, the warning light will come on.

The warning light may blink rapidly (about twice per second) while trying to free a stuck vehicle due to high power train oil temperature. The driving mode may change to two-wheel drive. If the warning light blinks rapidly during operation, stop the vehicle with the engine idling in a safe place immediately. Then if the light goes off after a while, you can continue driving.

A large difference between the diameters of front and rear wheels will make the warning light blink slowly (about once per two seconds). Pull off the road in a safe area, and idle the engine. Check that all tire sizes are the same, tire pressure is correct and tires are not worn.

If the warning light is blinking after the above operation, have your vehicle checked by an INFINITI retailer as soon as possible.

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**WARNING**

- For AWD equipped vehicles, do not attempt to raise two wheels off the ground and shift the transmission to any drive or reverse position with the engine running. Doing so may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

- Do not attempt to test an AWD equipped vehicle on a 2-wheel dynamometer (such as the dynamometers used by some states for emissions testing) or similar equipment even if the other two wheels are raised off the ground. Make sure that you inform the test facility personnel that your vehicle is equipped with AWD before it is placed on a dynamometer. Using the wrong test equipment may result in drivetrain damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

**CAUTION**

- Do not operate the engine on a free roller when any of the wheels are raised.

- If the warning light comes on while driving there may be a malfunction in the AWD system. Reduce the vehicle speed and have your vehicle checked by an INFINITI retailer as soon as possible.

- If the warning light remains on after the above operation, have your vehicle checked by an INFINITI retailer as soon as possible.

- The power train may be damaged if you continue driving with the warning light blinking.
PARKING/PARKING ON HILLS

**WARNING**

- Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.
- Never leave the engine running while the vehicle is unattended.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.

- Safe parking procedures require that both the parking brake be applied and the transmission placed into P (Park). Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.
- Make sure the automatic transmission selector lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.

1. Firmly apply the parking brake.
2. Move the selector lever to the P (Park) position.

3. To help prevent the vehicle from rolling into the street when parked on a sloping driveway, it is a good practice to turn the wheels as illustrated.
   - **HEADED DOWNHILL WITH CURB:** ①
     Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
   - **HEADED UPHILL WITH CURB:** ②
     Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
   - **HEADED UPHILL OR DOWNHILL, NO CURB:** ③
     Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

4. Push the ignition switch to the OFF position.

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POWER STEERING

⚠️ WARNING
If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be harder to operate.

The power assisted steering uses a hydraulic pump, driven by the engine, to assist steering. If the engine stops or the drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns and at low speeds.

BRAKE SYSTEM

BRAKING PRECAUTIONS
The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

Vacuum assisted brakes
The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and the stopping distance will be longer.

When the brake pedal is depressed slowly and firmly, you may hear a clicking noise and feel a slight pulsation. This is normal and indicates that the Brake Assist System is operating.

Wet brakes
When the vehicle is washed or driven through water, the brakes may get wet. As a result, your braking distance will be longer and the vehicle may pull to one side during braking.

To dry brakes, drive the vehicle at a safe speed while lightly tapping the brake pedal to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

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 an INFINITI retailer.

Using the brakes
Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wearing out the brake and pads faster and reduce gas mileage.

To help save the brakes and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

⚠️ WARNING
- While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.
BRAKE ASSIST

If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.

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.

PREVIEW FUNCTION (Intelligent Cruise Control system equipped models)

When the Preview Function identifies the need to apply emergency braking by sensing a vehicle ahead in the same lane and the distance and relative speed from it, it applies the brake pre-pressure before the driver depresses the brake pedal and helps improve brake response by reducing pedal free play.

- This system will not operate when the vehicle is moving at approximately 20 MPH (32 km/h) or less.

- The pre-pressure function ceases when the following conditions are met:
  a) When the driver depresses the accelerator pedal or the brake pedal.
  b) If the driver does not operate the accelerator or brake pedal within approximately 1 second.
• The sensor will not detect:
  a) Pedestrians or objects in the roadway
  b) Oncoming vehicles in the same lane
  c) Motorcycles traveling offset in the travel lane as illustrated

**WARNING**

• This system 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.

• As there is a performance limit to the Preview Function, never rely solely on this system. This system does not correct careless inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Reduce vehicle speed by depressing the brake pedal, in order to maintain a safe distance between vehicles.

• The system may not detect the vehicle in front of you in certain road or weather conditions. The Preview Function may not operate properly under the following conditions. The vehicle is still driveable under normal conditions and the Brake Assist will operate.
  – When rain, snow or dirt adhere to the system sensor
  – When strong light (for example, at sunrise or sunset) is directly shining on the front of the vehicle
  – Winding or hilly roads may cause the sensor to temporarily not detect a vehicle in the same lane or may detect objects or vehicles in other lanes.
  – Vehicle position in the lane may cause the sensor to temporarily not detect a vehicle in the same lane or may detect objects or vehicles in other lanes.

• When the Preview Function operates, the brake pedal may move slightly and may make a small noise. This is not a system malfunction.
Warning light and display

When the Preview Function is not operating properly, a chime sounds and the system warning light (orange) will come on.

Action to take:

If the warning light comes on, park the vehicle in a safe place. Turn the engine off, restart the engine and resume driving.

If the indicator stays on, it may indicate that the Preview Function is malfunctioning (the brake is operative). Although the Vehicle is still driveable under normal conditions, have the vehicle checked at an INFINITI retailer.

How to handle the sensor

The sensor for the Preview Function is common with Intelligent Cruise Control and is located below the front bumper.

To keep the Preview Function operating properly, be sure to observe the following:

- Always keep the sensor clean. Wipe with a soft cloth carefully so as not to damage the sensor.
- Do not strike or damage the areas around the sensor. Do not touch or remove the screw located on the sensor. Doing so could cause failure or malfunction. If the sensor is damaged due to an accident, contact an INFINITI retailer.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.

ANTI-LOCK BRAKING SYSTEM (ABS)

WARNING

- The Anti-lock Braking System (ABS) is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces. Remember that stopping distances on slippery surfaces will be longer than on normal surfaces even with ABS. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the driver is responsible for safety.

- Tire type and condition may also affect braking effectiveness.
  - When replacing tires, install the specified size of tires on all four wheels.
  - When installing a spare tire, make sure that it is the proper size and type as specified on the Tire and Loading Information label. See “TIRE AND LOADING INFORMATION LABEL” in the “9. Technical and consumer information” section of this manual.
The Anti-lock Braking System (ABS) controls the brakes so the wheels do not lock during hard braking or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking and sliding. By preventing each wheel from locking, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

Using the system
Depress the brake pedal and hold it down. Depress the brake pedal with firm steady pressure, but do not pump the brakes. The ABS will operate to prevent the wheels from locking up. Steer the vehicle to avoid obstacles.

**WARNING**
Do not pump the brake pedal. Doing so may result in increased stopping distances.

Self-test feature
The ABS includes electronic sensors, electric pumps, hydraulic solenoids and a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and does not indicate a malfunction. If the computer senses a malfunction, it switches the ABS off and illuminates the ABS warning light on the instrument panel. The brake system then operates normally, but without anti-lock assistance. If the ABS warning light illuminates during the self-test or while driving, have the vehicle checked by an INFINITI retailer.

Normal operation
The ABS operates at speeds above 3 to 6 MPH (5 to 10 km/h).
When the ABS senses that one or more wheels are close to locking up, the actuator rapidly applies and releases hydraulic pressure. This action is similar to pumping the brakes very quickly. You may feel a pulsation in the brake pedal and hear a noise from under the hood or feel a vibration from the actuator when it is operating. This is normal and indicates that the ABS is operating properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.
VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

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 engine output to reduce drive wheel slip based on vehicle speed (traction control function).
- Controls brake pressure at individual wheels and engine output to help the driver maintain control of the vehicle in the following conditions:
  - understeer (vehicle tends to not follow the steered path despite increased steering input)
  - oversteer (vehicle tends to spin due to certain road or driving conditions).

The VDC system can help the driver to maintain control of the vehicle, but it cannot prevent loss of vehicle control in all driving situations.

When the VDC system operates, the VDC warning light in the instrument panel flashes so note the following:

- The road may be slippery or the system may determine some action is required to help keep the vehicle on the steered path.
- You may feel a pulsation in the brake pedal and hear a noise or vibration from under the hood. This is normal and indicates that the VDC system is working properly.
- Adjust your speed and driving to the road conditions.

See “Vehicle Dynamic Control (VDC) warning light” in the “2. Instruments and controls” section.

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 illuminates to indicate the VDC system is off. When 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, except for rise-up and build-up and brake force distribution, and the VDC warning light will not flash. The VDC system is automatically reset to on when the ignition switch is placed in the off position then back to the on position.


The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or in reverse at a slow speed. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.

ACTIVE TRACE CONTROL (if so equipped)

This system senses driving based on the driver’s steering and acceleration/braking patterns, and controls brake pressure at individual wheels and engine output to help smooth vehicle response.

When the drive mode selector switch is set to the “SPORT” mode, the amount of brake control provided by active trace control is reduced.
When the VDC OFF switch is used to turn off the VDC system, the active trace control system is also turned off.

If the active trace control is not functioning properly, the IBA OFF indicator light illuminates in the instrument panel.

RISE-UP AND BUILD-UP

The system gradually adjusts braking power during normal braking to help provide an enhanced brake feel.

BRAKE FORCE DISTRIBUTION

During braking while driving through turns, the system optimizes the distribution of force to each of the four wheels depending on the radius of the turn.

**WARNING**

- The VDC 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.

- The active trace control (if so equipped), rise-up and build-up and brake force distribution systems may not be effective depending on the driving condition. Always drive carefully and attentively.

- Do not modify the vehicle’s suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars, bushings and wheels are not INFINITI 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 INFINITI recommended or are extremely deteriorated, the VDC system may not operate properly and the VDC warning light may illuminate.

- If engine control related parts are not INFINITI recommended or are extremely deteriorated, the VDC warning light may illuminate.

- When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the VDC warning light may illuminate. Do not drive on these types of roads.

- When driving on an unstable surface such as a turntable, ferry, elevator or ramp, the VDC warning light may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.

- If wheels or tires other than the INFINITI 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.

5-90 Starting and driving
\textbf{HILL START ASSIST SYSTEM}

\begin{tabular}{|p{0.8\textwidth}|}
\hline
\textbf{WARNING}\tabularnewline
\hline
\textbullet{} 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.\tabularnewline
\textbullet{} 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.\tabularnewline
\textbullet{} 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.\tabularnewline
\hline
\end{tabular}

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:
\begin{itemize}
\item The transmission is shifted to a forward or reverse gear.
\item The vehicle is stopped completely on a hill by applying the brake.
\end{itemize}
The maximum holding time is 2 seconds. After 2 seconds the vehicle will begin to roll back and the hill start assist system will stop operating completely.

The hill start assist system will not operate when the transmission is shifted to the N (Neutral) or P (Park) position or on a flat and level road.

\textbf{4 WHEEL ACTIVE STEER (4WAS) SYSTEM (if so equipped)}

The 4 Wheel Active Steer (4WAS) system is an electronically controlled four-wheel steering system.

Depending on the vehicle speed and steering angle, the angles of the front and rear wheels are adjusted by the 4WAS system to help improve driving performance.

If a malfunction occurs in the system, the 4WAS function will stop but the ordinary two-wheel steering system will operate normally. The “4WAS” warning light will illuminate. If the light illuminates while you are driving, contact an INFINITI retailer for repair.

The steering wheel may be slightly turned even when driving on a straight road due to a protection mechanism for the 4WAS system. This is not a malfunction. The steering wheel will return to the normal position after the protection mechanism deactivates.

The protection mechanism activates under the following conditions:
\begin{itemize}
\item The steering wheel is operated forcibly when it is hard to operate or the tires are blocked by obstacles.
\item The steering wheel is continuously operated when the vehicle is parked or being driven at extremely low speed.
\end{itemize}
COLD WEATHER DRIVING

- The steering wheel is forcibly turned beyond its operation limits.
- The battery voltage is reduced.

Repeated steering maneuvers that may activate the protection mechanism will damage the 4WAS system.

**WARNING**
The 4WAS system, although a sophisticated device, cannot prevent accidents resulting from careless or dangerous driving techniques. Ultimately the responsibility for safety of self and others rests in the hands of the driver. Therefore only through attentive and careful driving methods can the 4WAS system be fully appreciated and safety optimized.

FREEING A FROZEN DOOR LOCK
To prevent a door lock from freezing, apply deicer through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole or use the Intelligent Key system.

**ANTIFREEZE**
In the winter when it is anticipated that the outside temperature will drop below 32°F (0°C), check antifreeze to assure proper winter protection. For additional information, see “ENGINE COOLING SYSTEM” in the “8. Maintenance and do-it-yourself” section.

**BATTERY**
If the battery is not fully charged during extremely cold weather conditions, the battery fluid may freeze and damage the battery. To maintain maximum efficiency, the battery should be checked regularly. For additional information, see “BATTERY” in the “8. Maintenance and do-it-yourself” section.

**DRAINING OF COOLANT WATER**
If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see “ENGINE COOLING SYSTEM” in the “8. Maintenance and do-it-yourself” section.

**TIRE EQUIPMENT**
**SUMMER** tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, INFINITI recommends the use of MUD & SNOW or ALL SEASON tires on all four wheels. Consult an INFINITI retailer for the tire type, size, speed rating and availability information.

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian 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 may be used. For details, see “TIRE CHAINS” in the “8. Maintenance and do-it-yourself” section of this manual.

For all-wheel drive
If you install snow tires, they must also be the same size, brand, construction and tread pattern on all four wheels.
SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

- A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
- A sturdy, flat board to be placed under the jack to give it firm support.
- A shovel to dig the vehicle out of snowdrifts.
- Extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE

WARNING

- Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or “grip” under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.
- Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.
- Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.
- Allow greater following distances on slippery roads.
- Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.
- Do not use the cruise control on slippery roads.
- Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.

ENGINE BLOCK HEATER (if so equipped)

Engine block heaters are used to assist in cold temperature starting.

The engine block heater should be used when the outside temperature is 20°F (−7°C) or lower.

To use the engine block heater

1. Turn the engine off.
2. Open the hood and unwrap the engine block heater cord.
3. Plug the engine block heater cord into a grounded 3-wire, 3-pronged extension cord.
4. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-volt AC (VAC) outlet.
5. The engine block heater must be plugged in for at least 2 - 4 hours, depending on outside temperatures, to properly warm the engine coolant. Use an appropriate timer to turn the engine block heater on.
6. Before starting the engine, unplug and properly store the cord to keep it away from moving parts.

WARNING

- Do not use your engine block heater with an ungrounded electrical system or a 2-pronged adapter. You can be seriously injured by an electrical shock if you use an ungrounded connection.
**ACTIVE NOISE CONTROL**

- Disconnect and properly store the engine block heater cord before starting the engine. Damage to the cord could result in an electrical shock and can cause serious injury.
- Use a heavy-duty 3-wire, 3-pronged extension cord rated for at least 10A. Plug the extension cord into a Ground Fault Interrupt (GFI) protected, grounded 110-VAC outlet. Failure to use the proper extension cord or a grounded outlet can result in a fire or electrical shock and cause serious personal injury.

This system uses microphones ① located inside the vehicle to detect engine booming sound. The system then automatically produces a muted engine booming sound through the speakers ② and woofer ③ (if so equipped) to reduce engine booming sound.

**NOTE:**
To operate the active noise control system properly:
- Do not cover the speakers or woofer.
- Do not cover the microphones.
● Do not change or modify speakers including the woofer and any audio related parts such as the amplifier.
● Do not make any modification including sound deadening or modifications around the microphones or speakers.
6 In case of emergency

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In the event of a roadside emergency, Roadside Assistance Service is available to you. Please refer to your Warranty Information Booklet (U.S.) or Warranty & Roadside Assistance Information Booklet (Canada) for details.

To shut off the engine in an emergency situation, while driving perform the following procedure:

- Rapidly push the push-button ignition switch 3 consecutive times, or
- Push and hold the push-button ignition switch for more than 2 seconds.

TIRE PRESSURE MONITORING SYSTEM (TPMS)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the CHECK TIRE PRESSURE warning (if so equipped) appears in the dot matrix liquid crystal display, one or more of your tires is significantly under-inflated. If the vehicle is being driven with low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light. This system will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). For more details, see “WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS” in the “2. Instruments and controls” section and “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section.
WARNING

- If the low tire pressure warning light illuminates or LOW PRESSURE information is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Driving with under-inflated tires may permanently damage the tires and increase the likelihood of tire failure. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the tire pressure for all four tires. Adjust the tire pressure to the recommended COLD tire pressure shown on the Tire and Loading Information label to turn the low tire pressure warning light OFF. If the light still illuminates while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.
- When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.

- Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.
- Do not inject any tire liquid or aerosol tire sealant into the tires, as this may cause a malfunction of the tire pressure sensors.

CHANGING A FLAT TIRE

If you have a flat tire, follow the instructions below.

Stopping the vehicle
1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Move the selector lever to the P (Park) position.
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road assistance personnel that you need assistance.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

WARNING

- Make sure the parking brake is securely applied and the automatic transmission into P (Park).
- Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.
- Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.
Blocking wheels

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.

**WARNING**
Be sure to block the wheel as the vehicle may move and result in personal injury.

Getting the spare tire and tools

Raise the trunk floor cover ① using the tab ④. Remove jacking tools located inside the trunk as illustrated.

The spare tire is located under the jacking tools. Remove the cap ② holding the spare tire.

6-4 In case of emergency
Jacking up the vehicle and removing the damaged tire

WARNING

- Never get under the vehicle while it is supported only by the jack. If it is necessary to work under the vehicle, support it with safety stands.
- Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.
- Use the correct jack-up points. Never use any other part of the vehicle for jack support.
- Never jack up the vehicle more than necessary.
- Never use blocks on or under the jack.
- Do not start or run the engine while vehicle is on the jack, as it may cause the vehicle to move. This is especially true for vehicles with limited slip differentials.
- Do not allow passengers to stay in the vehicle while it is on the jack.

Carefully read the caution label attached to the jack body and the following instructions.

1. Place the jack directly under the jack-up point as illustrated so the top of the jack contacts the vehicle at the jack-up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

   The jack should be used on level firm ground.

In case of emergency 6-5
2. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. Do not remove the wheel nuts until the tire is off the ground.

3. Carefully raise the vehicle until the tire clears the ground. To lift the vehicle, securely hold the jack lever and rod with both hands as shown above. Remove the wheel nuts, and then remove the tire.

 Installing the spare tire

The T-type spare tire is designed for emergency use. (See specific instructions under the heading "WHEELS AND TIRES" in the “8. Maintenance and do-it-yourself” section.)

1. Clean any mud or dirt from the surface between the wheel and hub.

2. Carefully put the spare tire on and tighten the wheel nuts finger tight.

   Models equipped with different sized tires in the front and rear:

   When replacing a front tire, make sure that the hole in the spare tire wheel is aligned with the pin on the brake rotor.

6-6 In case of emergency
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly in the sequence as illustrated (1, 2, 3, 4, 5) until they are tight.

4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence as illustrated. Lower the vehicle completely.

**WARNING**
- Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.
- Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.
- Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).
- As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:
80 ft-lb (108 N·m)
The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specifications at each lubrication interval.

- Adjust tire pressure to the COLD pressure.
  COLD pressure:
  After the vehicle has been parked for three hours or more or driven less than 1 mile (1.6 km).
  COLD tire pressures are shown on the Tire and Loading Information label affixed to the driver side center pillar.

5. Securely store the flat tire and jacking equipment in the vehicle.

6. Place the spare tire cover and the trunk floor carpeting over the damaged tire.

7. Close the trunk.

**WARNING**
- Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.
JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

**WARNING**

- If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.
- Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.
- Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulphuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.
- Keep the battery out of the reach of children.
- The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.

- Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over the battery when jump starting.
- Do not attempt to jump start a frozen battery. It could explode and cause serious injury.
- Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.

If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty Information Booklet (Canada).

The T-type spare tire and small size spare tire are designed for emergency use. See specific instructions under the heading "WHEELS AND TIRES" in the “8. Maintenance and do-it-yourself” section.

If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty Information Booklet (Canada).
WARNING
Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle (A), position the two vehicles (A and B) to bring their batteries into close proximity to each other.
   
   Do not allow the two vehicles to touch.

2. Apply parking brake. Move the selector lever to the P (Park) position. Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).

3. Remove vent caps on the battery (if so equipped). Cover the battery with a firmly wrung out moist cloth (C) to reduce explosion hazard.

4. Connect jumper cables in the sequence as illustrated (1 → 2 → 3 → 4).

   If the battery is disconnected or discharged, the steering wheel will lock and cannot be turned. Supply power using jumper cables before pushing the ignition switch and disengaging the steering lock.

In case of emergency  6-9
5. Start the engine of the booster vehicle \( \text{A} \) and let it run for a few minutes.

6. Keep the engine speed of the booster vehicle \( \text{A} \) at about 2,000 rpm, and start the engine of the vehicle being jump started \( \text{B} \).

7. After starting your engine, carefully disconnect the negative cable and then the positive cable \( (\text{A} \rightarrow \text{B} \rightarrow \text{C}) \).

8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

9. Put the battery cover on.

Do not attempt to start the engine by pushing.

- Automatic transmission models cannot be push-started or tow-started. Attempting to do so may cause transmission damage.
- Three way catalyst equipped models should not be started by pushing since the three way catalyst may be damaged.
- Never try to start the vehicle by towing it; when the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.

If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty & Roadside Assistance Information Booklet (Canada).
IF YOUR VEHICLE OVERHEATS

**CAUTION**

- Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.
- To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.
- Do not open the hood if steam is coming out.

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc., take the following steps:

1. Move the vehicle safely off the road, apply the parking brake and move the selector lever to the P (Park) position. **Do not stop the engine.**
2. Turn off the climate control. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.
3. If engine overheating is caused by climbing a long hill on a hot day, run the engine at a fast idle (approximately 1,500 rpm) until the temperature gauge indication returns to normal.
4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
5. Open the engine hood.

**WARNING**

If steam or water is coming from the engine, stand clear to prevent getting burned.

6. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking or the cooling fan does not run, stop the engine.

7. After the engine cools down, check the coolant level in the reservoir tank with the engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired at the nearest INFINITI retailer. If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty & Roadside Assistance Information Booklet (Canada).
TOWING YOUR VEHICLE

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from an INFINITI retailer. Local service operators are familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, INFINITI recommends that you have a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions.

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**WARNING**

- Never ride in a vehicle that is being towed.
- Never get under your vehicle after it has been lifted by a tow truck.

---

**CAUTION**

- When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any unit is damaged, dollies must be used.
- Always attach safety chains before towing.

For information about towing your vehicle behind a recreational vehicle (RV), see “FLAT TOWING” in the “9. Technical and consumer information” section of this manual.

If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty & Roadside Assistance Information Booklet (Canada).
TOWING RECOMMENDED BY INFINITI

Two-Wheel Drive (2WD) models

INFINITI recommends that your vehicle be towed with the driving (rear) wheels off the ground or place the vehicle on a flat bed truck as illustrated.

- When towing rear wheel drive models with the front wheels on the ground or on towing dollies: Push the ignition switch to the ACC or ON position, and secure the steering wheel in a straight-ahead position with a rope or similar device. Never secure the steering wheel by selecting the LOCK position. This may damage the steering lock mechanism.

- Never tow automatic transmission models with the rear wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the front wheels raised, always use towing dollies under the rear wheels.

In case of emergency  6-13
Intelligent All-Wheel Drive (AWD) models

INFINITI recommends that towing dollies be used when towing your vehicle or the vehicle be placed on a flat bed truck as illustrated.

**CAUTION**

Never tow Intelligent AWD models with any of the wheels on the ground as this may cause serious and expensive damage to the powertrain.

6-14  In case of emergency
VEHICLE RECOVERY (freeing a stuck vehicle)

**WARNING**
- Stand clear of a stuck vehicle.
- Do not spin your tires at high speed. This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

**Pulling a stuck vehicle**

If your vehicle is stuck in sand, snow, mud, etc., use a tow strap or other device designed specifically for vehicle recovery. Always follow the manufacturer’s instructions for the recovery device.

**Front:**
1. Remove the cover with a suitable tool.
2. Securely install the vehicle recovery hook stored with jacking tools as illustrated. Attach the tow strap to the recovery hook.
   - Make sure that the hook is properly secured in the original place after use.

**Rear:**
- Do not use the tie down hook for towing or vehicle recovery.

---

**CAUTION**
- Tow chains or cables must be attached only to the vehicle recovery hooks or main structural members of the vehicle. Otherwise, the vehicle body will be damaged.
- Do not use the vehicle tie downs to free a vehicle stuck in sand, snow, mud, etc.
- Never tow a vehicle using the vehicle tie downs or recovery hooks.
- Always pull the cable straight out from the front of the vehicle. Never pull on the vehicle at an angle.
- Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

---

**Rocking a stuck vehicle**

If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control (VDC) system.
2. Make sure the area in front and behind the vehicle is clear of obstructions.

3. Turn the steering wheel right and left to clear an area around the front tires.
4. Slowly rock the vehicle forward and backward.
   - Shift back and forth between R (reverse) and D (drive).
   - Apply the accelerator as little as possible to maintain the rocking motion.
   - Release the accelerator pedal before shifting between R and D.
   - Do not spin the tires above 35 MPH (55 km/h).
5. If the vehicle cannot be freed after a few tries, contact a professional towing service to remove the vehicle.
MEMO

6-16  In case of emergency
7 Appearance and care

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In order to maintain the appearance of your vehicle, it is important to take proper care of it.

To protect the paint surface, wash your vehicle as soon as you can:

- after a rainfall to prevent possible damage from acid rain
- after driving on coastal roads
- when contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface
- when dust or mud builds up on the surface

Whenever possible, store or park your vehicle inside a garage or in a covered area. When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off the vehicle with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

Rinse the vehicle again with plenty of clean water.

Inside flanges, seams and folds on the doors, hatches and hood are particularly vulnerable to the effects of road salt. Therefore, these areas must be regularly cleaned. Make sure that the drain holes in the lower edge of the door are open. Spray water under the body and in the wheel wells to loosen the dirt and wash away road salt.

Avoid leaving water spots on the paint surface by using a damp chamois to dry the vehicle.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before reapplying wax.

An INFINITI retailer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compound or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.
REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at an INFINITI retailer or any automotive accessory stores.

UNDERBODY

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.

CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

WHEELS

Wash the wheels when washing the vehicle to maintain their appearance.

- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- INFINITI recommends that the road wheels be waxed to protect against road salt in areas where it is used during winter.

CAUTION

Do not use abrasive cleaners when washing the wheels.

Aluminum alloy wheels

Wash regularly with a sponge dampened in a mild soap solution, especially during winter months in areas where road salt is used. Salt could discolor the wheels if not removed.

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 chrome parts regularly with a non-abrasive chrome polish to maintain the finish.
TIRE DRESSING

INFINITI does not recommend the use of tire dressings. Tire manufacturers apply a coating to the tires to help reduce discoloration of the rubber. If a tire dressing is applied to the tires, it may react with the coating and form a compound. This compound may come off the tire while driving and stain the vehicle paint.

If you choose to use a tire dressing, take the following precautions:

- Use a water-based tire dressing. The coating on the tire dissolves more easily with an oil-based tire dressing.
- Apply a light coat of tire dressing to help prevent it from entering the tire tread/grooves (where it would be difficult to remove).
- Wipe off excess tire dressing using a dry towel. Make sure the tire dressing is completely removed from the tire tread/grooves.
- Allow the tire dressing to dry as recommended by tire dressing manufacturer.

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft bristled brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry soft cloth.

Regular care and cleaning is required in order to maintain the appearance of the leather.

Before using any fabric protector, read the manufacturer’s recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water, to clean the meter and gauge lens.

WARNING
Do not use water or acidic cleaners (hot steam cleaners) on the seat. This can damage the seat or occupant classification sensors. This can also affect the operation of the air bag system and result in serious personal injury.

CAUTION
- Never use benzine, thinner, or any similar material.

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.

MOONROOF SUNSHADE (if so equipped)
The moonroof sunshade is made from a suede material.
Clean the sunshade material as follows:

**CAUTION**

To help prevent damaging the sunshade while cleaning:
- Do not rub the material with a cloth. Doing so can damage the surface of the material or cause a stain to spread.
- Never use benzine, thinner or any similar chemical to clean the suede. This may discolor the sunshade and damage the surface.
- Clean water based stains by patting the surface with a clean soft cloth dampened in warm water. Press a clean dry cloth onto the surface to remove as much dampness as possible and then let air dry.
- Clean oil based stains by patting the surface with a clean soft cloth dampened in warm water. Press a clean dry cloth onto the surface to remove as much dampness as possible and then let air dry.

**WARNING**

To avoid potential pedal interference that may result in a collision or injury:
- NEVER place a floor mat on top of another floor mat in the driver front position.
- Use only NISSAN Genuine Floor Mats specifically designed for use in your vehicle model. See your NISSAN dealer.
- Properly position the mats in the floorwell using the floor mat positioning aid. See “Floor mat positioning aid” in this section.

FLOOR MATS

The use of INFINITI floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. Mats should be maintained with regular cleaning and replaced if they become excessively worn.

Floor mat positioning aid

This model includes front floor mat brackets to act as floor mat positioning aid. INFINITI floor mats have been specially designed for your vehicle model. The front floor mats have grommet holes in them. To install, simply position the mat by placing the floor mat bracket through the floor mat grommet hole while centering the mat in the floor pan contour. Periodically check to make certain that the mats are properly positioned.

Appearance and care 7-5
SEAT BELTS
The seat belts can be cleaned by wiping them with a sponge dampened in a mild soap solution. Allow the belts to dry completely before using them.

See “SEAT BELTS” in the “1. Safety — Seats, seat belts and supplemental restraint system” section.

**WARNING**
Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye, or chemical solvents to clean the seat belts, since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION
- The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
- Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

ENVIRONMENTAL FACTORS INFLUENCE THE RATE OF CORROSION

Moisture
Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

Relative humidity
Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing where atmospheric pollution exists, or where road salt is used.
Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION

- Wash and wax your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.

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<td>● Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.</td>
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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 winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult an INFINITI retailer.
# 8 Maintenance and do-it-yourself

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MAINTENANCE REQUIREMENT

Your new INFINITI has been designed to have minimum maintenance requirements with long service intervals to save you both time and money. However, some day-to-day and regular maintenance is essential to maintain your INFINITI’s fine mechanical condition, as well as its emission and engine performance.

It is the owner’s responsibility to make sure that the scheduled maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care. You are a vital link in the maintenance chain.

SCHEDULED MAINTENANCE

For your convenience, both required and optional scheduled maintenance items are described and listed in your “INFINITI Service and Maintenance Guide”. You must refer to that guide to ensure that necessary maintenance is performed on your INFINITI at regular intervals.

GENERAL MAINTENANCE

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. 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, an INFINITI retailer.

WHERE TO GO FOR SERVICE

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and serviced by an INFINITI retailer.

INFINITI technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-retailership information systems. They are completely qualified to work on INFINITI vehicles before work begins.

You can be confident that an INFINITI retailer’s service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economical way.

GENERAL MAINTENANCE

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smell, be sure to check for the cause or have an INFINITI retailer do it promptly. In addition, you should notify an INFINITI retailer if you think that repairs are required.

When performing any checks or maintenance work, see “MAINTENANCE PRECAUTIONS” later in this section.

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with “*” is found later in this section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Doors and engine hood: Check that all doors and the engine hood, operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links 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 headlight aim.

**Road wheel nuts (lug nuts)**: When checking the tires, make sure no wheel nuts are missing, and check for any loose wheel nuts. Tighten if necessary.

**Tire rotation***: Tires should be rotated every 7,500 miles (12,000 km). If your vehicle is equipped with different sized tires in the front and rear, tires cannot be rotated.

**Tires***: Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

**Tire Pressure Monitoring System (TPMS) transmitter components**: Replace the TPMS transmitter grommet seal, valve core and cap when the tires are replaced due to wear or age.

**Tire, 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.

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the INFINITI Warranty Information Booklet.

**Windshield**: Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

**Windshield wiper blades***: Check for cracks or wear if they do not wipe properly.

**Inside the 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 the pedal does not catch or require uneven effort. Keep the floor mat away from the pedal.

**Automatic transmission P (Park) mechanism**: On a fairly steep hill, check that your vehicle is held securely with the selector lever in the P (Park) position without applying any brakes.

**Brake pedal**: Check the pedal for smooth operation. If the brake pedal suddenly goes down further than normal, the pedal feels spongy or the vehicle seems to take longer to stop, see an INFINITI retailer immediately. Keep the floor mat away from the pedal.

**Brakes**: Check that the brakes do not pull the vehicle to one side when applied.

**Parking brake**: Check the parking brake operation regularly. The vehicle should be securely held on a fairly steep hill with only the parking brake applied. If the parking brake needs adjusted, see an INFINITI retailer.

**Seat belts**: Check that all parts of the seat belt system (for example, buckles, anchors, adjuster and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

**Seats**: Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and that all latches lock securely in every position. Check that the head
restraints move up and down smoothly and that
the locks (if so equipped) hold securely in all
latched positions.

Steering wheel: Check for changes in the steer-
ing conditions, such as excessive free play,
hard steering or strange noises.

Warning lights and chimes: Make sure that all
warning lights and chimes are operating prop-
erly.

Windshield defroster: Check that the air comes
out of the defroster outlets properly and in
sufficient 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 the hood and vehicle

The maintenance items listed here should be
checked periodically (for example, each time
you check the engine oil or refuel).

Battery*: Check the fluid level in each cell. It
should be between the MAX and MIN lines.
Vehicles operated in high temperatures or un-
der severe condition 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.

Engine drive belts*: Make sure that no belt is
frayed, worn, cracked or oily.

Engine oil level*: Check the level after parking
the vehicle on a level spot and turning off the
engine. Wait more than 15 minutes for the oil to
drain back into the oil pan.

Exhaust system: Make sure there are no loose
supports, cracks or holes. If the sound of the
exhaust seems unusual or there is a smell of
exhaust fumes, immediately have the exhaust
system inspected by an INFINITI retailer. (See
“PRECAUTIONS WHEN STARTING AND DRIVING”
in the “5. Starting and driving” section for
exhaust gas (Carbon monoxide).)

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 gasoline fumes are
evident, check for the cause and have it cor-
corrected immediately.

Power steering fluid level* and lines: Check the
level when the fluid is cold, with the engine off.
Check the lines for proper attachment, leaks,
cracks, etc.

Radiator and hoses: Check the front of the
radiator and clean off any dirt, insects, leaves,
etc., that may have accumulated. Make sure the
hoses have no cracks, deformation, rot or loose
connections.

Underbody: The underbody is frequently ex-
posed to corrosive substances such as those
used on icy roads or to control dust. It is very
important to remove these substances, other-
wise rust will form on the floor pan, frame, fuel
lines and around the exhaust system. At the
end of winter, the underbody should be thor-
oughly flushed with plain water, being careful
to clean those areas where mud and dirt may
accumulate. For additional information, see
“CLEANING EXTERIOR” in the “7. Appearance
and care” section.

Windshield washer fluid*: Check that there is
adequate fluid in the reservoir.
When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.

**WARNING**

- Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the selector lever to P (Park).
- Be sure the ignition switch is in the OFF or LOCK position when performing any parts replacement or repairs.
- Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.
- Never leave the engine or automatic transmission related component harnesses disconnected while the ignition switch is in the ON position.
- If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.
- It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.
- Always wear eye protection whenever you work on your vehicle.
- If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.
- Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.
- Keep smoking materials, flame and sparks away from fuel tank and the battery.
- Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.
- The fuel filter or fuel lines should be serviced by an INFINITI retailer because the fuel lines are under high pressure even when the engine is off.

**CAUTION**

- Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.
- Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, coolant, and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.

This “8. Maintenance and do-it-yourself” section gives instructions regarding only those items which are relatively easy for an owner to perform.

A genuine INFINITI Service Manual is also available. (See “OWNER’S MANUAL/SERVICE MANUAL ORDER INFORMATION” in the “9. Technical and consumer information” section.)

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, we recommend that it be done by an INFINITI retailer.
VK56VD ENGINE

To remove the engine compartment cover, unhook the clips located as illustrated. Loosen the bolts and then pull the cover upward.

8-6 Maintenance and do-it-yourself
1. Battery
2. Fuse/fusible link holder
3. Engine oil filler cap
4. Brake fluid reservoir
5. Window washer fluid reservoir
6. Power steering fluid reservoir
7. Air cleaner
8. Radiator filler cap
9. Engine coolant reservoir
10. Engine oil dipstick
11. Drive belts
12. Fuse/fusible link holder
VQ37VHR ENGINE

To remove the engine compartment cover, unhook the clips located as illustrated.

8-8 Maintenance and do-it-yourself
1. Battery
2. Fuse/fusible link holder
3. Engine oil filler cap
4. Brake fluid reservoir
5. Window washer fluid reservoir
6. Power steering fluid reservoir
7. Air cleaner
8. Radiator filler cap
9. Engine coolant reservoir
10. Engine oil dipstick
11. Drive belts
12. Fuse/fusible link holder
ENGINE COOLING SYSTEM

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The antifreeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

**WARNING**

- Never remove the radiator cap when the engine is hot. Wait until the engine and radiator cool down. Serious burns could be caused by high pressure fluid escaping from the radiator. See precautions in “IF YOUR VEHICLE OVERHEATS” in the “6. In case of emergency” section of this manual.

- The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.

**CAUTION**

When adding or replacing coolant, be sure to use only a Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent with the proper mixture ratio of 50% antifreeze and 50% demineralized or distilled water. The life expectancy of the factory-fill coolant is 105,000 miles (168,000 km) or 7 years. Mixing any other type of coolant or the use of non-distilled water will reduce the life expectancy of the factory-fill coolant. Refer to the INFINITI Service and Maintenance Guide for more details. The use of other types of coolant solutions may damage the engine cooling system.

### CHECKING ENGINE COOLANT LEVEL

Check the coolant level in the reservoir when the engine is cold. If the coolant level is below MIN (2), open the reservoir tank cap and add coolant up to the MAX (1) level. If the reservoir tank is empty, check the coolant level in the radiator when the engine is cold. If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir tank up to the MAX level (1).

Tighten the cap securely after adding engine coolant.

If the cooling system requires coolant frequently, have it checked by an INFINITI retailer.
CHANGING ENGINE COOLANT

Major cooling system repairs should be performed by an INFINITI retailer. The service procedures can be found in the appropriate INFINITI Service Manual.

Improper servicing can result in reduced heater performance and engine overheating.

**WARNING**

- To avoid the danger of 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.

CHECKING ENGINE OIL LEVEL

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. Wait more than 15 minutes for the oil to drain back into the oil pan.
4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be within the range $H_{17034}$.
6. Recheck oil level with the dipstick.

It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.

**CAUTION**

Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

Maintenance and do-it-yourself  8-11
CHANGING ENGINE OIL AND FILTER
Vehicle set-up

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and wait more than 15 minutes.
4. Raise and support the vehicle using a suitable floor jack and safety jack stands.
   - Place the safety jack stands under the vehicle jack-up points.
   - A suitable adapter should be attached to the jack stand saddle.
5. Remove the plastic engine undercover.
   a. Remove the small plastic clip at the center point of the undercover.
   b. Then remove the other bolts that hold the undercover in place.

**CAUTION**

Make sure the correct lifting and support points are used to avoid vehicle damage.

VK56VD engine — 2WD models

VK56VD engine — AWD models

VK37VHR engine — 2WD models

VK37VHR engine — AWD models

8-12 Maintenance and do-it-yourself
Engine oil and filter

1. Place a large drain pan under the drain plug.
2. Remove the oil filler cap.
3. Remove the drain plug with a wrench and completely drain the oil.
   
   **CAUTION**
   Be careful not to burn yourself, as the engine oil is hot.

   - Waste oil must be disposed of properly.
   - Check your local regulations.

4. (Perform steps 4 to 7 only when the engine oil filter change is needed.)
   Loosen the oil filter with an oil filter wrench. Remove the oil filter by turning it by hand.
5. Wipe the engine oil filter mounting surface with a clean rag.
   
   **CAUTION**
   Be sure to remove any old rubber gasket remaining on the mounting surface of the engine. Failure to do so could lead to engine damage.

6. Coat the gasket on the new filter with clean engine oil.
7. Screw in the oil filter clockwise until a slight resistance is felt, then tighten additionally more than 2/3 turn.

   **Oil filter tightening torque:**
   11 to 15 ft-lb
   (14.7 to 20.5 N·m)

8. Clean and re-install the drain plug with a new washer. Securely tighten the drain plug with a wrench.

   **Drain plug tightening torque:**
   22 to 29 ft-lb
   (29 to 39 N·m)

   **Do not use excessive force.**

9. Refill engine with recommended oil and install the oil filler cap securely.

   **CAUTION**
   The dipstick must be inserted in place to prevent oil spillage from the dipstick hole while filling the engine with oil.

See “CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS” in the “9. Technical and consumer information” section for drain and refill capacity. The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine the proper amount of oil in the engine.

10. Start the engine and check for leakage around the drain plug and the oil filter. Correct as required.

11. Turn the engine off and wait more than 15 minutes. Check the oil level with the dipstick. Add engine oil if necessary.

After the operation

1. Install the engine undercover into position as the following steps.
   a. Pull the center of the small plastic clip out.
   b. Hold the engine undercover into position.
   c. Insert the clip through the undercover into the hole in the frame, then push the center of the clip in to lock the clip in place.
   d. Install the other bolts that hold the undercover in place. Be careful not to strip the bolts or over-tighten them.
2. Lower the vehicle carefully to the ground.
3. Dispose of waste oil and filter properly.

Maintenance and do-it-yourself 8-13
**WARNING**

- Prolonged and repeated contact with used engine oil may cause skin cancer.
- Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- Keep used engine oil out of reach of children.

**CAUTION**

- Use only Genuine NISSAN Matic S ATF. Do not mix with other fluids.
- Using automatic transmission fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the INFINITI new vehicle limited warranty.

When checking or replacement is required, we recommend an INFINITI retailer for servicing.

**POWER STEERING FLUID**

Check the fluid level in the reservoir.

The fluid level should be checked using the HOT range ([1]: HOT MAX., [2]: HOT MIN.) at fluid temperatures of 122 to 176°F (50 to 80°C) or using the COLD range ([3]: COLD MAX., [4]: COLD MIN.) at fluid temperatures of 32 to 86°F (0 to 30°C).

If the fluid is below the MIN line, add Genuine NISSAN PSF or equivalent. Remove the cap and fill through the opening.

**CAUTION**

- Do not overfill.
- Use Genuine NISSAN PSF or equivalent.
BRAKE FLUID

For further brake fluid information, see “CAPACITIES AND RECOMMENDED FUEL/ LUBRICANTS” in the “9. Technical and consumer information” section of this manual.

**WARNING**

- Use only new fluid from a sealed container. Old, inferior or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle’s 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 the surface with water.

Check the fluid level in the reservoir. If the fluid is below the MIN line \(2\) or the brake warning light comes on, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 fluid up to the MAX line \(1\). If fluid must be added frequently, the system should be checked by an INFINITI retailer.

**WARNING**

Antifreeze is poisonous and should be stored carefully in marked containers out of the reach of children.

Fill the window washer fluid reservoir periodically. Add window washer fluid when the low window washer fluid warning light comes on.

To fill the window washer fluid reservoir, lift the cap off the reservoir tank and pour the window washer fluid into the tank opening.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer’s instructions for the mixture ratio.

Maintenance and do-it-yourself 8-15
Refill the reservoir more frequently when driving conditions require an increased amount of window washer fluid.

Recommended fluid is Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent.

**CAUTION**
- Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.
- Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.
- Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.

- Keep the battery surface clean and dry. Clean the battery with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.
- If the vehicle is not to be used for 30 days or longer, disconnect the negative (−) battery terminal cable to prevent discharging it.

**WARNING**
- Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by the battery is explosive. Do not allow battery fluid to contact your skin, eyes, fabrics, or painted surfaces. After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.
- Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.
- When working on or near a battery, always wear suitable eye protection and remove all jewelry.

- Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.
- Keep the battery out of the reach of children.

8-16 Maintenance and do-it-yourself
Check the fluid level in each cell (Remove the battery cover if it is necessary). It should be between the UPPER LEVEL 1 and LOWER LEVEL 2 lines.

If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**

1. Remove the cell plugs A.
2. Add 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 1 indicates OK and the conditions 2 needs more to be added.
3. Tighten cell plugs A.

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

**JUMP STARTING**

If jump starting is necessary, see “JUMP STARTING” in the “6. In case of emergency” section. If the engine does not start by jump starting, the battery may have to be replaced. Contact an INFINITI retailer.

Maintenance and do-it-yourself 8-17
CAUTION

- Do not ground accessories directly to the battery terminal. Doing so will bypass the variable voltage control system and the vehicle battery may not charge completely.
- Use electrical accessories with the engine running to avoid discharging the vehicle battery.

The variable voltage control system measures the amount of electrical discharge from the battery and controls voltage generated by the generator.

1. Power steering fluid pump
2. Alternator
3. Crankshaft pulley
4. Air conditioner compressor
5. Drive belt auto-tensioner

WARNING

Be sure the ignition switch is in the OFF or LOCK position before servicing drive belts. The engine could rotate unexpectedly.

1. Visually inspect each belt for signs of unusual wear, cuts, fraying or looseness. If the belt is in poor condition or loose, have it replaced or adjusted by an INFINITI retailer.
2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule in your "INFINITI Service and Maintenance Guide".

VARIABLE VOLTAGE CONTROL SYSTEM

DRIVE BELTS

VK56VD engine

VQ37VHR engine

8-18 Maintenance and do-it-yourself
WARNING
Be sure the engine and the ignition switch are off and that the parking brake is engaged securely.

CAUTION
Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

REPLACING SPARK PLUGS
If replacement is required, see an INFINITI retailer for servicing.

Iridium-tipped spark plugs
It is not necessary to replace the iridium-tipped spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance schedule in “INFINITI Service and Maintenance Guide”, but do not reuse them by cleaning or regapping.
Always replace spark plugs with recommended or equivalent ones.
Remove the retainers as illustrated and pull out the filter element.

The filter element should not be cleaned and reused. Replace it according to the maintenance intervals. See “INFINITI Service and Maintenance Guide” for maintenance intervals. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

**WARNING**

- Operating the engine with the air cleaner removed can cause you or others to be burned. The air cleaner not only cleans the air, it stops flame if the engine backfires. If it isn’t there, and the engine backfires, you could be burned. Do not drive with the air cleaner removed, and be careful when working on the engine with the air cleaner removed.
- Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.

**CLEANING**

If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean each blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

Worn windshield wiper blades can damage the windshield and impair driver vision.
REPLACING

Replace the wiper blades if they are worn.

Before replacing the wiper blades, the wiper should be in the fully up position to avoid scratching the engine hood or damaging the wiper arm. To pull up the wiper arm, see "WINDSHIELD WIPER AND WASHER SWITCH" in the "2. Instruments and controls" section.

1. Pull the wiper arm.

2. Push the release tab A, and then move the wiper blade down the wiper arm 1 while pushing the release tab to remove.

3. Insert the new wiper blade onto the wiper arm until a click sounds.

4. Rotate the wiper blade so the dimple is in the groove.

**CAUTION**
- After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.
- Make sure the wiper blades contact the glass; otherwise the arm may be damaged from wind pressure.

If you wax the surface of the hood, be careful not to let wax get into the washer nozzle A. This may cause clogging or improper windshield washer operation. If wax gets into the nozzle, remove it with a needle or small pin B. Be careful not to damage the nozzle.

Maintenance and do-it-yourself 8-21
If the brakes do not operate properly, have the brakes checked by an INFINITI retailer.

**SELF-ADJUSTING BRAKES**

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

**WARNING**

See an INFINITI retailer for a brake system check if the brake pedal height does not return to normal.

**BRAKE PAD WEAR WARNING**

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

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

**Proper brake inspection intervals should be followed.** For additional information, see the maintenance log section of your “INFINITI Service and Maintenance Guide” for maintenance intervals.


**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 ignition switch is pushed to the OFF or LOCK position and the headlight switch is turned to OFF.
2. Open the engine hood and remove the cover on the battery and the fuse/fusible link holder.
3. Remove the fuse/fusible link holder cover.
4. Remove the fuse with the fuse puller.

5. If the fuse is open \(A\), replace it with a new fuse \(B\). Spare fuses are stored in the passenger compartment fuse box.
6. If a new fuse also opens, have the electrical system checked and repaired by an INFINITI retailer.

The holder \(1\) also contains the fuses. For checking and/or replacing, see an INFINITI retailer.

**Fusible links**

If any electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine INFINITI parts.
CAUTION

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is pushed to the OFF or LOCK position and the headlight switch is turned to OFF.
2. Open the fuse box lid.

3. Remove the fuse with the fuse puller  A.
4. If the fuse is open, replace it with a new fuse.
5. If a new fuse also opens, have the electrical system checked and repaired by an INFINITI retailer. Spare fuses are stored in the fuse box.

Extended storage switch (if equipped)

If any electrical equipment does not operate, remove the extended storage switch and check for an open issue.

NOTE:

The extended storage switch is used for long term vehicle storage. Even if the extended storage switch is broken it is not necessary to replace it. Replace only the open fuse in the switch with a new fuse.
How to remove the extended storage switch:

1. To remove the extended storage switch, be sure the ignition switch is in the OFF or LOCK position.
2. Be sure the headlight switch is in the OFF position.
3. Remove the fuse box cover.
4. Pinch the locking tabs found on each side of the storage switch.
5. Pull the storage switch straight out from the fuse box.

---

**CAUTION**
Be careful not to allow children to swallow the battery and removed parts.

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To replace the battery:

1. Release the lock knob at the back of the Intelligent Key and remove the mechanical key.

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Maintenance and do-it-yourself 8-25
2. Insert a flat-blade screwdriver \( \text{A} \) wrapped with a cloth into the slit \( \text{B} \) of the corner and twist it to separate the upper part from the lower part.

3. Replace the battery with a new one.
   Recommended battery: CR2025 or equivalent
   - Do not touch the internal circuit and electric terminals as it could cause a malfunction.
   - Hold the battery by the edges. Holding the battery across the contact points will seriously deplete the storage capacity.
   - Make sure that the + side faces the bottom of the case.

4. Align the tips of the upper and lower parts, and then push them together until it is securely closed.

5. Operate the buttons to check its operation.

See an INFINITI retailer if you need any assistance for replacement.

FCC Notice:
This device complies with Part 15 of FCC Rules and RSS-Gen of IC Rules. Operation is subject to the following two conditions:

(1) this device may not cause interference, and
(2) this device must accept any interference, including interference that may cause undesired operation of this device.

8-26 Maintenance and do-it-yourself
1. Front turn signal light
2. Park light
3. Headlight (high- and low-beam)
4. Map light
5. Rear personal light
6. Fog light
7. Side marker light
8. Step light
9. Courtesy light
10. High-mounted stop light
11. Trunk light
12. License plate light
13. Back-up light
14. Rear combination light (rear turn signal/tail/stop/side marker light)
HEADLIGHTS
Replacing

Xenon headlight bulb:

**WARNING**

**HIGH VOLTAGE**

When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at an INFINITI retailer. For additional information, see “HEADLIGHT AND TURN SIGNAL SWITCH” in the “2. Instruments and controls” section.

Use the same number and wattage shown in the following chart as originally installed.

If replacement is required, see an INFINITI retailer.

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 an INFINITI retailer.

EXTERIOR AND INTERIOR LIGHTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Wattage (W)</th>
<th>Bulb No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Headlight*</td>
<td>35</td>
<td>D2S</td>
</tr>
<tr>
<td>High/Low beams (xenon)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Front turn signal light*</td>
<td>21</td>
<td>WY21W</td>
</tr>
<tr>
<td>Front fog light*</td>
<td>35</td>
<td>H8</td>
</tr>
<tr>
<td>Park light and front side marker light*</td>
<td>5</td>
<td>W5W</td>
</tr>
<tr>
<td>Rear combination light*</td>
<td>16</td>
<td>W16W</td>
</tr>
<tr>
<td>back-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>turn signal</td>
<td>21</td>
<td>WY21W</td>
</tr>
<tr>
<td>stop/tail/side marker</td>
<td>LED</td>
<td></td>
</tr>
<tr>
<td>License plate light*</td>
<td>5</td>
<td>W5W</td>
</tr>
<tr>
<td>Map light</td>
<td>8</td>
<td>—</td>
</tr>
<tr>
<td>Rear personal light</td>
<td>8</td>
<td>—</td>
</tr>
<tr>
<td>Vanity mirror light</td>
<td>2</td>
<td>—</td>
</tr>
<tr>
<td>Step light*</td>
<td>5</td>
<td>—</td>
</tr>
<tr>
<td>Trunk light*</td>
<td>3.4</td>
<td>—</td>
</tr>
<tr>
<td>Courtesy light</td>
<td>LED</td>
<td>—</td>
</tr>
<tr>
<td>High-mounted stop light*</td>
<td>LED</td>
<td>—</td>
</tr>
</tbody>
</table>

*: See an INFINITI retailer for replacement.

NOTE: Always check with the Parts Department at an INFINITI retailer for the latest information about parts.

8-28  Maintenance and do-it-yourself
Replacement procedures

All other lights are either type A, B, C, D, E or F. When replacing a bulb, first remove the lens and/or cover.
WHEELS AND TIRES

If you have a flat tire, see “FLAT TIRE” in the “6. In case of emergency” section.

TIRE PRESSURE

Tire Pressure Monitoring System (TPMS)

This vehicle is equipped with the Tire Pressure Monitoring System (TPMS). It monitors tire pressure of all tires except the spare. When the low tire pressure warning light is lit and the CHECK TIRE PRESSURE warning (if so equipped) appears in the dot matrix liquid crystal display, one or more of your tires is significantly under-inflated. The TPMS will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). Also, this system may not detect a sudden drop in tire pressure (for example a flat tire while driving).

For more details, see “Low tire pressure warning light” in the “2. Instruments and controls” section, “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “5. Starting and driving” section and “TIRE PRESSURE MONITORING SYSTEM (TPMS)” in the “6. In case of emergency” section.

Tire inflation pressure

Check the pressure of the tires (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the Tire and Loading Information label under the “Cold Tire Pressure” heading. The Tire and Loading Information label is affixed to the driver side center pillar. Tire pressures should be checked regularly because:

- Most tires naturally lose air over time.
- Tires can lose air suddenly when driven over potholes or other objects or if the vehicle strikes a curb while parking.

The tire pressures should be checked when the tires are cold. The tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds.

Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.
● Improperly inflated tires can fail suddenly and cause an accident.

● The Gross Vehicle Weight rating (GVWR) is located on the F.M.V.S.S./C.M.V.S.S. label. The vehicle weight capacity is indicated on the Tire and Loading Information label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.

● Before taking a long trip, or whenever you heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.
Seating capacity: The maximum number of occupants that can be seated in the vehicle.


Original size: The size of the tires originally installed on the vehicle at the factory.

Cold tire pressure: Inflate the tires to this pressure when the tires are cold. Tires are considered COLD after the vehicle has been parked for 3 or more hours, or driven less than 1 mile (1.6 km) at moderate speeds. The recommended cold tire inflation is set by the manufacturer to provide the best balance of tire wear, vehicle handling, driveability, tire noise, etc., up to the vehicle's GVWR.

Tire size — see “TIRE LABELING” later in this section.

Spare tire size or compact spare tire size (if so equipped)
Checking the tire pressure

1. Remove the valve stem cap from the tire.

2. Press the pressure gauge squarely onto the valve stem. Do not press too hard or force the valve stem sideways, or air will escape. If the hissing sound of air escaping from the tire is heard while checking the pressure, reposition the gauge to eliminate this leakage.

3. Remove the gauge.

4. Read the tire pressure on the gauge stem and compare it to the specification shown on the Tire and Loading Information label.

5. Add air to the tire as needed. If too much air is added, press the core of the valve stem briefly with the tip of the gauge stem to release pressure. Recheck the pressure and add or release air as needed.

6. Install the valve stem cap.

7. Check the pressure of all other tires, including the spare.

### Size Cold Tire

<table>
<thead>
<tr>
<th>Size</th>
<th>Cold Tire Inflation Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Front Original Tire</strong></td>
<td></td>
</tr>
<tr>
<td>P245/50R18 99V</td>
<td>230 kPa, 33 PSI</td>
</tr>
<tr>
<td>245/40R20 95W</td>
<td>230 kPa, 33 PSI</td>
</tr>
<tr>
<td><strong>Rear Original Tire</strong></td>
<td></td>
</tr>
<tr>
<td>P245/50R18 99V</td>
<td>230 kPa, 33 PSI</td>
</tr>
<tr>
<td>245/40R20 95W</td>
<td>230 kPa, 33 PSI</td>
</tr>
</tbody>
</table>

**Spare Tire**

<table>
<thead>
<tr>
<th>Size</th>
<th>Cold Tire Inflation Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>T165/80R17</td>
<td>420 kPa, 60 PSI</td>
</tr>
<tr>
<td>T165/80D17</td>
<td>420 kPa, 60 PSI</td>
</tr>
<tr>
<td>T155/80R18</td>
<td>420 kPa, 60 PSI</td>
</tr>
</tbody>
</table>
TIRE LABELING

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides the tire identification number (TIN) for safety standard certification. The TIN can be used to identify the tire in case of a recall.

1. Tire size (example: P215/60R16 94H)
   1. P: The “P” indicates the tire is designed for passenger vehicles. (Not all tires have this information.)
   2. Three-digit number (215): This number gives the width in millimeters of the tire from sidewall edge to sidewall edge.
   3. Two-digit number (60): This number, known as the aspect ratio, gives the tire’s ratio of height to width.

2. R: The “R” stands for radial.

3. Two-digit number (16): This number is the wheel or rim diameter in inches.

4. Two- or three-digit number (94): This number is the tire’s load index. It is a measurement of how much weight each tire can support. You may not find this information on all tires because it is not required by law.

5. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.
2. TIN (Tire Identification Number) for a new tire (example: DOT XX XX XXX XXXX)

1. DOT: Abbreviation for the “Department of Transportation”. The symbol can be placed above, below or to the left or right of the Tire Identification Number.

2. Two-digit code: Manufacturer’s identification mark

3. Two-digit code: Tire size

4. Three-digit code: Tire type code (Optional)

5. Three-digit code: Date of Manufacture

6. Four numbers represent the week and year the tire was built. For example, the numbers 3103 means the 31st week of 2003. If these numbers are missing, then look on the other sidewall of the tire.

3. Tire ply composition and material

The number of layers or plies of rubber-coated fabric in the tire. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

4. Maximum permissible inflation pressure

This number is the greatest amount of air pressure that should be put in the tire. Do not exceed the maximum permissible inflation pressure.

5. Maximum load rating

This number indicates the maximum load in kilograms and pounds that can be carried by the tire. When replacing the tires on the vehicle, always use a tire that has the same load rating as the factory installed tire.

6. Term of “tubeless” or “tube type”

Indicates whether the tire requires an inner tube (“tube type”) or not (“tubeless”).

7. The word “radial”

The word “radial” is shown, if the tire has radial structure.

8. Manufacturer or brand name

Manufacturer or brand name is shown.

Other tire-related terminology:

In addition to the many terms that are defined throughout this section, Intended Outboard Sidewall is (1) the sidewall that contains a whitewall, bears...
white lettering or bears manufacturer, brand and/or model name molding that is higher or deeper than the same molding on the other sidewall of the tire, or (2) the outward facing sidewall of an asymmetrical tire that has a particular side that must always face outward when mounted on a vehicle.

TYPES OF TIRES

<table>
<thead>
<tr>
<th>WARNING</th>
</tr>
</thead>
<tbody>
<tr>
<td>● When changing or replacing tires, be sure all four tires are of the same type (Example: Summer, All Season or Snow) and construction. An INFINITI retailer may be able to help you with information about tire type, size, speed rating and availability.</td>
</tr>
<tr>
<td>● Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.</td>
</tr>
<tr>
<td>● Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.</td>
</tr>
</tbody>
</table>

All season tires

INFINITI 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 (Mud and Snow) on the tire sidewall. Snow tires have better snow traction than All Season tires and may be more appropriate in some areas.

Summer tires

INFINITI 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, INFINITI recommends the use of SNOW tires 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 will 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 U.S. states and Canadian 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 they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer’s suggestions. **Use only SAE Class S chains.** Class “S” chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class “S” chains are designed to meet the SAE standard minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

**Tire chains must be installed only on the rear wheels and not on the front wheels.**

Never install tire chains on a TEMPORARY USE ONLY spare tire.

Do not use tire chains on dry roads. Driving with tire chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.

CHANGING WHEELS AND TIRES

Tire rotation (Models equipped with same size tires on all wheels)

**INFINITI** recommends rotating the tires every 7,500 miles (12,000 km). (See “FLAT TIRE” in the “6. In case of emergency” section for tire replacing procedures.)

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.
Wheel nut tightening torque:
80 ft-lb (108 N·m)

The wheel nuts must be kept tightened to the specification at all times. It is recommended that wheel nuts be tightened to the specification at each tire rotation interval.

**WARNING**

- After rotating the tires, check and adjust the tire pressure.
- Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).
- Do not include the T-type spare tire or any other small size spare tire in the tire rotation.
- For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.

1. Wear indicator
2. Wear indicator location mark

Tire wear and damage

**WARNING**

- The original tires have built-in tread wear indicators. When wear indicators are visible, the tire(s) should be replaced.
- Tires degrade with age and use. Have tires, including the spare, over 6 years old checked by a qualified technician, because some tire damage may not be obvious. Replace the tires as necessary to prevent tire failure and possible personal injury.
- Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact an INFINITI retailer.
- For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.
Replacing wheels and tires

When replacing a tire, use the same size, tread design, speed rating and load carrying capacity as originally equipped. (See “SPECIFICATIONS” in the “9. Technical and consumer information” section for recommended types and sizes of tires and wheels.)

**WARNING**

- 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, tire 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 off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade 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. See “WHEELS AND TIRES” in the “9. Technical and consumer information” section of this manual for wheel off-set dimensions.
- When a spare tire is mounted or a wheel is replaced, the TPMS will not function and the low tire pressure warning light will flash for approximately 1 minute. The light will remain on after 1 minute. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.
- Replacing tires with those not originally specified by INFINITI could affect the proper operation of the TPMS.
- Do not install a damaged or deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.
- The use of retread tire is not recommended.

**CAUTION**

- Always use tires of the same type, size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the transmission, transfer case and differential gears.
- ONLY use spare tires specified for the Intelligent AWD model.

If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. Contact an INFINITI retailer.

Intelligent All-Wheel Drive (AWD) models

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information Booklet.
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.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the INFINITI Warranty Information Booklet.

Care of wheels

See “CLEANING EXTERIOR” in the “7. Appearance and care” section for details about care of the wheels.

Spare tire (TEMPORARY USE ONLY (T-type) spare tire)

Observe the following precautions if the T-type spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

**WARNING**

- The T-type spare tire should be used for emergency use. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage.
- Drive carefully while the TEMPORARY USE ONLY spare tire is installed. Avoid sharp turns and abrupt braking while driving.
- Periodically check spare tire inflation pressure. Always keep the pressure of the TEMPORARY USE ONLY spare tire at 60 psi (420 kPa, 4.2 bar). Always keep the pressure of the full size spare tire (if so equipped) at the recommended pressure for standard tires, as indicated on the Tire and Loading Information label. For Tire and Loading Information label location, see “Tire and Loading Information label” in the index of this manual.
- With the TEMPORARY USE ONLY spare tire installed do not drive your vehicle at speeds faster than 50 MPH (80 km/h).
- When driving on roads covered with snow or ice, the TEMPORARY USE ONLY spare tire should be used on the front wheels and original tire used on the rear wheels (drive wheels). Use tire chains only on the two rear original tires.
- Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the standard tire. Replace the spare tire as soon as the tread wear indicators appear.
- Do not use the spare tire on other vehicles.
- Do not use more than one spare tire at the same time.
- Do not tow a trailer when the TEMPORARY USE ONLY spare tire is installed.

**CAUTION**

- Do not use tire chains on a TEMPORARY USE ONLY spare tire. Tire chains will not fit properly and may cause damage to the vehicle.
- Because the TEMPORARY USE ONLY spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle, do not drive over obstacles. Also do not drive the vehicle through an automatic car wash since it may get caught.
9 Technical and consumer information

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The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the “8. Maintenance and do-it-yourself” section to determine the proper refill capacity.

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity (Approximate) US measure</th>
<th>Capacity (Approximate) Imp measure</th>
<th>Capacity (Approximate) Liter</th>
<th>Recommended specifications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel</td>
<td>20-1/8 gal</td>
<td>16-3/4 gal</td>
<td>76</td>
<td>See “FUEL RECOMMENDATION” later in this section.</td>
</tr>
<tr>
<td>Engine oil*6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Drain and refill</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With oil filter change</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQ37VHR</td>
<td>5-1/8 qt</td>
<td>4-3/8 qt</td>
<td>4.9</td>
<td></td>
</tr>
<tr>
<td>VK56VD (2WD)</td>
<td>6-3/8 qt</td>
<td>5-1/4 qt</td>
<td>6.0</td>
<td>•Engine oil with API Certification Mark<em>1</em>2</td>
</tr>
<tr>
<td></td>
<td>(AWD)</td>
<td>6-1/2 qt</td>
<td>5-3/8 qt</td>
<td>•Viscosity SAE 5W-30</td>
</tr>
<tr>
<td>Without oil filter change</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQ37VHR</td>
<td>4-7/8 qt</td>
<td>4.0 qt</td>
<td>4.6</td>
<td></td>
</tr>
<tr>
<td>VK56VD (2WD)</td>
<td>6.0 qt</td>
<td>5.0 qt</td>
<td>5.7</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(AWD)</td>
<td>6-1/8 qt</td>
<td>5-1/8 qt</td>
<td></td>
</tr>
<tr>
<td>Cooling system</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>With reservoir</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQ37VHR</td>
<td>8-7/8 qt</td>
<td>7-3/8 qt</td>
<td>8.4</td>
<td>50% Genuine NISSAN Long Life Antifreeze/Coolant (blue) or equivalent</td>
</tr>
<tr>
<td>VK56VD</td>
<td>11-1/2 qt</td>
<td>9-5/8 qt</td>
<td>10.9</td>
<td>50% Demineralized or distilled water</td>
</tr>
<tr>
<td>Reservoir</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>VQ37VHR</td>
<td>7/8 qt</td>
<td>3/4 qt</td>
<td>0.8</td>
<td>Genuine NISSAN Matic S ATF*3</td>
</tr>
<tr>
<td>VK56VD</td>
<td>7/8 qt</td>
<td>3/4 qt</td>
<td>0.8</td>
<td></td>
</tr>
<tr>
<td>Automatic transmission fluid</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Differential gear oil</td>
<td></td>
<td></td>
<td></td>
<td>Front: Genuine NISSAN Differential Oil Hypoid Super GL-5 80W-90 or API GL-5 Viscosity SAE 80W-90<em>4Rear: Genuine NISSAN Differential Oil Synthetic 75W-90 or API GL-5 synthetic gear oil, Viscosity SAE 75W-90</em>5</td>
</tr>
<tr>
<td>Transfer fluid</td>
<td></td>
<td></td>
<td></td>
<td>Genuine NISSAN Matic J ATF*6</td>
</tr>
<tr>
<td>Power steering fluid (PSF)</td>
<td></td>
<td></td>
<td></td>
<td>Genuine NISSAN PSF or equivalent*7</td>
</tr>
<tr>
<td>Brake fluid</td>
<td></td>
<td></td>
<td></td>
<td>Genuine NISSAN Super Heavy Duty Brake Fluid*8 or equivalent DOT 3</td>
</tr>
</tbody>
</table>

9-2 Technical and consumer information
## Capacity (Approximate)

<table>
<thead>
<tr>
<th></th>
<th>US measure</th>
<th>Imp measure</th>
<th>Liter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multi-purpose grease</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Without limited slip differential</td>
<td></td>
<td></td>
<td>NLGI No. 2 (Lithium soap base)</td>
</tr>
<tr>
<td>With limited slip differential</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Air conditioning system refrigerant</td>
<td></td>
<td></td>
<td>HFC-134a (R-134a)*9</td>
</tr>
<tr>
<td>Air conditioning system lubricants</td>
<td></td>
<td></td>
<td>NISSAN A/C System Oil Type 5 or exact equivalent</td>
</tr>
<tr>
<td>Window washer fluid</td>
<td></td>
<td></td>
<td>Genuine NISSAN Windshield Washer Concentrate Cleaner &amp; Anti-freeze or equivalent</td>
</tr>
</tbody>
</table>

---

*1: INFINITI recommends Genuine NISSAN Ester Engine Oil available at your INFINITI retailer.

*2: For additional information, see “ENGINE OIL” in the “8. Maintenance and do-it-yourself” section for changing engine oil.

*3: Using automatic transmission fluid other than Genuine NISSAN Matic S ATF will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the INFINITI new vehicle limited warranty.

*4: For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 32°F (0°C).

*5: See an INFINITI retailer for service for synthetic oil.

*6: Using transfer fluid other than Genuine NISSAN Matic J ATF will cause deterioration in driveability and transfer durability, and may damage the transfer, which is not covered by the INFINITI new vehicle limited warranty.

*7: DEXRON™ VI type ATF may also be used.

*8: Available in mainland US through an INFINITI retailer.

*9: For additional information, see “VEHICLE IDENTIFICATION” later in this section for air conditioner specification label.
FUEL RECOMMENDATION

Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If premium gasoline is not available, unleaded regular gasoline with an octane rating of 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.
- Avoid full throttle driving and abrupt acceleration.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

**CAUTION**

- Using a fuel other than that specified could adversely affect the emission control system, and may also affect warranty coverage.
- Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.

Gasoline specifications

INFINITI recommends using gasoline that meets the World-Wide Fuel Charter (WWFC) specifications where it is available. Many of the automobile manufacturers developed this specification to improve emission system and vehicle performance. Ask your service station manager if the gasoline meets the World-Wide Fuel Charter (WWFC) specifications.

Reformulated gasoline

Some fuel suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. INFINITI supports efforts towards cleaner air and suggests that you use reformulated gasoline when available.

Gasoline containing oxygenates

Some fuel suppliers sell gasoline containing oxygenates such as ethanol, MTBE and methanol with or without advertising their presence. INFINITI does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your INFINITI cannot be readily determined. If in doubt, ask your service station manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.
- If an oxygenate-blend, excepting a methanol blend, is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)
- If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in INFINITI vehicles.

If any undesirable driveability problems such as engine stalling or hard hot starting are experi-
enced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTBE.

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

E-85 fuel

E-85 fuel is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline. E-85 can only be used in a Flexible Fuel Vehicle (FFV). Do not use E-85 fuel in your vehicle. U.S. government regulations require fuel ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.

Aftermarket fuel additives

INFINITI does not recommend the use of any aftermarket fuel additives (Example: fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvent or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

Using unleaded gasoline with an octane rating lower than recommended above can cause persistent, heavy spark knock. (Spark knock is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent heavy spark knock even when using gasoline of the stated octane rating, or if you hear steady spark knock while holding a steady speed on level roads, have an INFINITI retailer correct the condition. Failure to correct the condition is misuse of the vehicle, for which INFINITI is not responsible.

Incorrect ignition timing will result in knocking, after-run or overheating. This in turn may cause excessive fuel consumption or damage to the engine. If any of the above symptoms are encountered, have your vehicle checked at an INFINITI retailer or other competent service facility.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

CAUTION

- Your vehicle is not designed to run on E-85 fuel. Using E-85 fuel in a vehicle not specifically designed for E-85 fuel can damage fuel system components and is not covered by the INFINITI new vehicle limited warranty.
- E-85 is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline.
- U.S. government regulations require ethanol dispensing pumps to be identified by a small, square, orange and black label with the common abbreviation or the appropriate percentage for that region.
ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose the correct grade, quality, and viscosity engine oil to ensure satisfactory engine life and performance, see "CAPACITIES AND RECOMMENDED FUEL/ LUBRICANTS" earlier in this section. INFINITI recommends the use of an energy conserving oil in order to improve fuel economy.

Select only engine oils that meet the American Petroleum Institute (API) certification or International Lubricant Standardization and Approval Committee (ILSAC) certification and SAE viscosity standard. These oils have the API certification mark on the front of the container. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Oil additives

INFINITI does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important that the engine oil viscosity be selected based on the temperatures at which the vehicle will be operated before the next oil change. Choosing an oil viscosity other than that recommended could cause serious engine damage.

Selecting the correct oil filter

Your new vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use the genuine oil filter or its equivalent for the reason described in change intervals.

Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Oil and filter other than the specified quality, or oil and filter change intervals longer than recommended could reduce engine life. Damage to engines caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the new INFINITI vehicle limited warranties.

Your engine was filled with a high quality engine oil when it was built. You do not have to
change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

● repeated short distance driving at cold outside temperatures,
● driving in dusty conditions,
● extensive idling,
● stop and go “rush hour” traffic,

Refer to the “INFINITI Service and Maintenance Guide” for the maintenance schedule.

AIR CONDITIONING SYSTEM
REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioning system in your INFINITI vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, NISSAN A/C system oil Type S or the exact equivalents.

CAUTION

The use of any other refrigerant or lubricant will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your INFINITI vehicle will not harm the earth’s ozone layer. Although this refrigerant does not affect the earth’s atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. Your INFINITI retailer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

Contact an INFINITI retailer when servicing your air conditioning system.
### SPECIFICATIONS

#### ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>VK56VD</th>
<th>VQ37VHR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Gasoline, 4-cycle</td>
<td>Gasoline, 4-cycle</td>
</tr>
<tr>
<td>Cylinder arrangement</td>
<td>8-cylinder, V-slanted at 90°</td>
<td>6-cylinder, V-slanted at 60°</td>
</tr>
<tr>
<td>Bore × Stroke</td>
<td>in (mm) 3.858 × 3.622 (98.0 × 92.0)</td>
<td>3.760 × 3.385 (95.5 × 86.0)</td>
</tr>
<tr>
<td>Displacement</td>
<td>cu in (cm³) 338.78 (5,552)</td>
<td>225.54 (3,696)</td>
</tr>
<tr>
<td>Firing order</td>
<td>1-8-7-6-5-4-2</td>
<td>1-2-3-4-5-6</td>
</tr>
<tr>
<td>Idle speed</td>
<td>rpm No adjustment is necessary.</td>
<td></td>
</tr>
<tr>
<td>Ignition timing (B.T.D.C.)</td>
<td>degree/rpm</td>
<td></td>
</tr>
<tr>
<td>Spark plug</td>
<td>DILKAR7B11</td>
<td>FXE24HR11</td>
</tr>
<tr>
<td>Spark plug gap (Normal)</td>
<td>in (mm) 0.043 (1.1)</td>
<td>0.043 (1.1)</td>
</tr>
<tr>
<td>Camshaft operation</td>
<td>Timing chain</td>
<td>Timing chain</td>
</tr>
</tbody>
</table>

This spark ignition system complies with the Canadian standard ICES-002.
## WHEELS AND TIRES

### Road wheel

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Offset in (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional</td>
<td>18 × 8J</td>
<td>1.69 (43)</td>
</tr>
<tr>
<td></td>
<td>20 × 9J</td>
<td>1.69 (43)</td>
</tr>
<tr>
<td>Spare</td>
<td>17 × 4T</td>
<td>1.18 (30)</td>
</tr>
<tr>
<td></td>
<td>18 × 4T</td>
<td>0 (0)</td>
</tr>
</tbody>
</table>

### Tire

<table>
<thead>
<tr>
<th>Type</th>
<th>Size</th>
<th>Pressure PSI (kPa) [Cold]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Conventional</td>
<td>P245/50R18</td>
<td>33 (230)</td>
</tr>
<tr>
<td></td>
<td>245/40R20</td>
<td></td>
</tr>
<tr>
<td>Spare (T-type)</td>
<td>T165/80R17T165/80D17T155/80R18</td>
<td>60 (420)</td>
</tr>
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</table>
**DIMENSIONS IN (MM)**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length (with front license plate)</td>
<td>194.7 (4,945)</td>
</tr>
<tr>
<td>Overall length (without front license plate)</td>
<td>194.5 (4,940)</td>
</tr>
<tr>
<td>Overall width</td>
<td>72.6 (1,845)</td>
</tr>
<tr>
<td>Overall height</td>
<td>59.1 (1,500)<em>1</em>2 59.6 (1,515)*3</td>
</tr>
<tr>
<td>Front tread</td>
<td>62.0 (1,575)</td>
</tr>
<tr>
<td>Rear tread</td>
<td>61.8 (1,570)<em>1</em>2 61.6 (1,565)*3</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>114.2 (2,900)</td>
</tr>
</tbody>
</table>

*1: Two-Wheel Drive (2WD)/18-in tire models
*2: Two-Wheel Drive (2WD)/20-in tire models
*3: Intelligent All-Wheel Drive (AWD) models

**WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY**

If you plan to travel in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

Using fuel with too low an octane rating may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. INFINITI is not responsible for any inconvenience that may result.

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*9-10 Technical and consumer information*
VEHICLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER (VIN) PLATE
The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.

VEHICLE IDENTIFICATION NUMBER (chassis number)
The number is stamped as shown in the engine compartment.

VK56VD engine

VQ37VHR engine

Technical and consumer information 9-11
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.

F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

The Federal/Canadian Motor Vehicle Safety Standards (F.M.V.S.S./C.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number (VIN), etc. Review it carefully.

EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached as shown.
TIRE AND LOADING INFORMATION LABEL

The cold tire pressure is shown on the Tire and Loading Information label affixed to the pillar as illustrated.

AIR CONDITIONER SPECIFICATION LABEL

The air conditioner specification label is attached as shown.
Use the following steps to mount the license plate:

Before mounting the license plate, confirm that the following parts are enclosed in the plastic bag.

- License plate bracket
- J-nut × 2
- Screw × 2
- Screw grommet × 2

1. Park the vehicle on flat, level ground.
2. Locate the center position (A) as illustrated. Line up the license plate bracket under the top of the front bumper (B) with the tabs (C). Hold the license plate bracket in place.
3. Mark the center of the hole (D) with a felt-tip pen.
4. Carefully drill two pilot holes using a 0.39 in (10 mm) drill bit at the marked locations. (Be sure that the drill only goes through the bumper fascia.)
5. Insert grommets into the hole on the fascia.
6. Insert a flat-blade screwdriver into the grommet hole to add 90° turn onto the part ⑤.

Mark the center of the hole ① on both sides with a felt-tip pen. Remove the bracket from the bumper, and then open 0.79 in (20 mm) diameter holes on the bumper using the marks ① as a center.

7. Insert a J-nut into the license plate bracket before placing the license plate bracket on the fascia.

8. Install the license plate bracket with screws.

9. Install the license plate with bolts that are no longer than 0.55 in (14 mm).

VEHICLE LOADING INFORMATION

**WARNING**
- It is extremely dangerous to ride in a cargo area inside the vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.
- Do not allow people to ride in any area of vehicle that is not equipped with seats and seat belts.
- Be sure everyone in your vehicle is in a seat and using a seat belt properly.

**TERMS**
It is important to familiarize yourself with the following terms before loading your vehicle:
- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight does not include passengers and cargo.
• GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
• GVWR (Gross Vehicle Weight Rating) - maximum total combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
• GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle. This information is located on the F.M.V.S.S./C.M.V.S.S. label.
• GCWR (Gross Combined Weight Rating) - The maximum total weight rating of the vehicle, passengers, cargo, and trailer.
• Vehicle Capacity Weight, Load limit, Total load capacity - maximum total weight limit specified of the load (passengers and cargo) for the vehicle. This is the maximum combined weight of occupants and cargo that can be loaded into the vehicle. If the vehicle is used to tow a trailer, the trailer tongue weight must be included as part of the cargo load. This information is located on the Tire and Loading Information label.
• Cargo capacity - permissible weight of cargo, the weight of total occupants weight subtracted from the load limit.
Do not exceed the load limit of your vehicle shown as “The combined weight of occupants and cargo” on the Tire and Loading Information label. Do not exceed the number of occupants shown as “Seating Capacity” on the Tire and Loading Information label.

To get “the combined weight of occupants and cargo”, add the weight of all occupants, then add the total luggage weight. Examples are shown in the illustration.

Steps for determining correct load limit
1. Locate the statement “The combined weight of occupants and cargo should never exceed XXX kg or XXX lbs” on your vehicle’s placard.
2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.
3. Subtract the combined weight of the driver and passengers from XXX kg or XXX lbs.
4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the XXX amount equals 1400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. (1400 – 750 (5 x 150) = 650 lbs or 640 – 340 (5 x 70) = 300 kg.)
5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.
6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

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Before driving a loaded vehicle, confirm that you do not exceed the Gross Vehicle Weight Rating (GVWR) or the Gross Axle Weight Rating (GAWR) for your vehicle. (See “MEASUREMENT OF WEIGHTS” later in this section.)

Also check tires for proper inflation pressures. See the Tire and Loading Information label.

LOADING TIPS

● The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S./C.M.V.S.S. certification label.

● Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

![WARNING]

- Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.

- Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.

- Overloading could not only shorten the life of your vehicle and the tires, but also could lead to hazardous vehicle handling and long braking distance. This may cause a premature tire malfunction, which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle's warranty.

MEASUREMENT OF WEIGHTS

Secure loose items to prevent weight shifts that could affect the balance of your vehicle. When the vehicle is loaded, drive to a scale and weigh the front and the rear wheels separately to determine axle loads. Individual axle loads should not exceed either of the gross axle weight ratings (GAWR). The total of the axle loads should not exceed the gross vehicle weight rating (GVWR). These ratings are given on the vehicle certification label. If weight ratings are ex-
ceed, move or remove items to bring all weights below the ratings.

Do not tow a trailer with your vehicle.

**FLAT TOWING**

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

<table>
<thead>
<tr>
<th>CAUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Failure to follow these guidelines can result in severe transmission damage.</td>
</tr>
<tr>
<td>• Whenever flat towing your vehicle, always tow forward, never backward.</td>
</tr>
<tr>
<td>• DO NOT tow any automatic transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL DAMAGE internal transmission parts due to lack of transmission lubrication.</td>
</tr>
<tr>
<td>• For emergency towing procedures refer to “TOWING RECOMMENDED BY INFINITI” in the “6. In case of emergency” section of this manual.</td>
</tr>
</tbody>
</table>

Automatic transmission

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly MUST be placed under the towed vehicle’s drive wheels. Always follow the dolly manufacturer’s recommendations when using their product.
UNIFORM TIRE QUALITY GRADING

DOT (Department Of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

**Treadwear 200 Traction AA Temperature A**

**TREADWEAR**
The treadwear grade is a comparative rating based on the wear rate of the tire when tested under controlled conditions on a specified government test course. For example, a tire graded 150 would wear one and one-half (1 1/2) times as well on the government course as a tire graded 100. The relative performance of tires depends upon actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

**TRACTION AA, A, B AND C**
The traction grades, from highest to lowest, are AA, A, B and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

**WARNING**
The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

**TEMPERATURE A, B AND C**
The temperature grades A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

**WARNING**
The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.
EMISSION CONTROL SYSTEM WARRANTY

Your INFINITI is covered by the following emission warranties.

For US:
- Emission Defects Warranty
- Emissions Performance Warranty (See Warranty Information Booklet for details.)

For Canada:
Emission Control System Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information Booklet (Warranty and Roadside Assistance Information (Canada only)) that comes with your INFINITI. If you did not receive a Warranty Information Booklet (Warranty and Roadside Assistance Information (Canada only)), or it has become lost, you may obtain a replacement by writing to:
- INFINITI Division
  Nissan North America, Inc.
  Consumer Affairs Department
  P.O. Box 685003
  Franklin, TN 37068-5003
- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario,
  L4W 4Z5

REPORTING SAFETY DEFECTS (US only)

For USA
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying INFINITI.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your retailer, or INFINITI.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to http://www.safercar.gov; or write to: Administrator, NHTSA, 400 Seventh Street, SW., Washington D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

You may notify INFINITI by contacting our Consumer Affairs Department, toll-free, at 1-800-662-6200.

For Canada
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform Transport Canada in addition to notifying INFINITI.

If Transport Canada receives complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may request that INFINITI conduct a recall campaign. However, Transport Canada cannot become involved in individual problems between you, your retailer, or INFINITI.

You may contact Transport Canada's Defect Investigations and Recalls Division toll free at 1-800-333-0510. You may also report safety defects online at: https://wwwapps.tc.gc.ca/Saf-Sec-Sur/7/PCDB-BDPP/Index.aspx

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Additional information concerning motor vehicle safety may be obtained from Transport Canada’s Road Safety Information Centre at 1-800-333-0371 or online at www.tc.gc.ca/roadsafety (English speakers) or www.tc.gc.ca/securiteroutiere (French speakers).

To notify INFINITI of any safety concerns please contact our Consumer Information Centre toll free at 1-800-361-4792.

A vehicle equipped with Intelligent All-Wheel Drive (AWD) should never be tested using a two wheel dynamometer (such as the dynamometers used by some states for emissions testing), or similar equipment. Make sure you inform test facility personnel that your vehicle is equipped with AWD before it is placed on a dynamometer. Using the wrong test equipment may result in transmission damage or unexpected vehicle movement which could result in serious vehicle damage or personal injury.

Due to legal requirements in some states/areas, your vehicle may be required to be in what is called the “ready condition” for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the “ready condition” when it is driven through certain driving patterns. Usually, the “ready condition” can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a “not ready condition”. Before taking the I/M test, check the vehicle’s inspection/maintenance test readiness condition. Place the ignition switch in the ON position without starting the engine. If the Malfunction Indicator Light (MIL) comes on steady for 20 seconds and then blinks for 10 seconds, the I/M test condition is “not ready”. If the MIL does not blink after 20 seconds, the I/M test condition is “ready”.

Contact an INFINITI retailer to set the “ready condition” or to prepare the vehicle for testing.

READINESS FOR INSPECTION/Maintenance (I/M) TEST (US only)

9-22 Technical and consumer information
EVENT DATA RECORDERS (EDR)

This vehicle is equipped with an Event Data Recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle’s systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.
- Sounds are not recorded.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur. NOTE: EDR data are recorded by your vehicle only if a nontrivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer and INFINITI retailer, other parties, such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR. EDR data will only be accessed with the consent of the vehicle owner or lessee or as otherwise required or permitted by law.

OWNER’S MANUAL/SERVICE MANUAL ORDER INFORMATION

A genuine INFINITI Service Manual is the best source of service and repair information for your vehicle. Filled with wiring diagrams, illustrations and step-by-step diagnostic and adjustment procedures, this manual is the same one used by the factory trained technicians working at an INFINITI retailer. Also available are genuine INFINITI Owner’s Manuals, and genuine INFINITI Service and Owner’s Manuals for older INFINITI models.

In the USA:
For current pricing and availability of genuine INFINITI Service Manuals for the 2000 model year and later, contact:
1-800-450-9491
www.infiniti-techinfo.com

For current pricing and availability of genuine INFINITI Service Manuals for the 1999 model year and prior, see an INFINITI retailer, or contact:
1-800-247-5321

For current pricing and availability of genuine INFINITI Owner’s Manuals for this model year and prior, see an INFINITI retailer, or contact:
1-800-247-5321

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In Canada:

To purchase a copy of a genuine INFINITI Service Manual or Owner's Manual please contact an INFINITI retailer. For the phone number and location of an INFINITI retailer in your area call the INFINITI Satisfaction Center at 1-800-361-4792 and a bilingual INFINITI representative will assist you.

Also available are genuine INFINITI Service and Owner's Manuals for older INFINITI models.

IN THE EVENT OF A COLLISION

Unfortunately, accidents do occur. In this unlikely event, there is some important information you should know. Many insurance companies routinely authorize the use of non-genuine collision parts in order to cut costs, among other reasons.

Insist on the use of Genuine INFINITI Collision Parts!

If you want your vehicle to be restored using parts made to INFINITI's original exacting specifications — if you want to help it to last and hold its resale value, the solution is simple. Tell your insurance agent and your repair shop to only use Genuine INFINITI Collision Parts. INFINITI does not warrant non-INFINITI parts, nor does INFINITI's warranty apply to damage caused by a non-genuine part.

Using Genuine INFINITI Parts can help protect your personal safety, preserve your warranty protection and maintain the resale value of your vehicle. And if your vehicle was leased, using Genuine INFINITI Parts may prevent or limit unnecessary excess wear and tear expenses at the end of your lease.

INFINITI designs its hoods with crumple zones to minimize the risk that the hood will penetrate the windshield of your vehicle in an accident. Non-genuine (imitation) parts may not provide such built in safeguards. Also, non-genuine parts often show premature wear, rust and corrosion.

Why should you take a chance?

In over 40 states, the law says you must be advised if non-genuine parts are used to repair your vehicle. And some states have enacted laws that restrict insurance companies from authorizing the use of non-genuine collision parts during the new vehicle warranty. These laws help protect you, so you can take action to protect yourself.

It's your right!

If you should need further information visit us at:

www.InfinitiUSA.com (for U.S. customers) or

www.infiniti.ca (for Canadian customers)
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FUEL RECOMMENDATION:

Use unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If premium gasoline is not available, unleaded regular gasoline with an octane rating of 87 AKI number (Research octane number 91) may be temporarily used, but only under the following precautions:

- Have the fuel tank filled only partially with unleaded regular gasoline, and fill up with unleaded premium gasoline as soon as possible.
- Avoid full throttle driving and abrupt acceleration.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

CAUTION

- Using a fuel other than that specified could adversely affect the emission control systems, and may also affect warranty coverage.
- Under no circumstances should a leaded gasoline be used, since this will damage the three way catalyst.

Do not use E-85 fuel in your vehicle. Your vehicle is not designed to run on E-85 fuel. Using E-85 fuel can damage the fuel system components and is not covered by the INFINITI vehicle limited warranty.

For additional information, see “CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS” in the “9. Technical and consumer information” section.

ENGINE OIL RECOMMENDATION:

- Engine oil with API Certification Mark
- Viscosity SAE 5W-30


COLD TIRE PRESSURES:

The label is typically located on the driver side center pillar or on the driver’s door. For additional information, see “WHEELS AND TIRES” in the “8. Maintenance and do-it-yourself” section.

NEW VEHICLE BREAK-IN PROCEDURES RECOMMENDATION:

During the first 1,200 miles (2,000 km) of vehicle use, follow the recommendations outlined in the “BREAK-IN SCHEDULE” in the “5. Starting and driving” section of this Owner’s Manual. Follow these recommendations for the future reliability and economy of your new vehicle.