

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 also 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 dealer 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 dealer. 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.

INFINITI is dedicated to providing a satisfying ownership experience for as long as you own your car. Should you have any questions regarding your INFINITI or your INFINITI dealer, please contact our Consumer Affairs department at:
In U.S. 1-800-662-6200.
In Canada 1-800-361-4792.

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** 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:



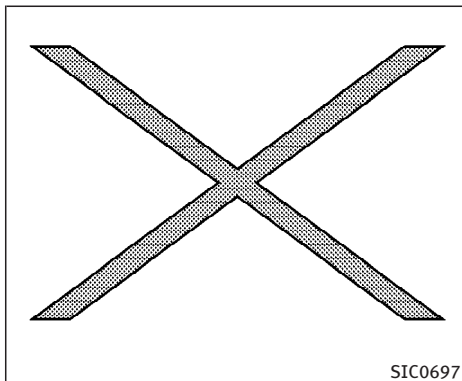
WARNING

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 this symbol, it means “Do not do this” or “Do not let this happen”.



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



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



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

CALIFORNIA PROPOSITION 65 WARNING



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.



INFINITI®

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TOKYO, JAPAN

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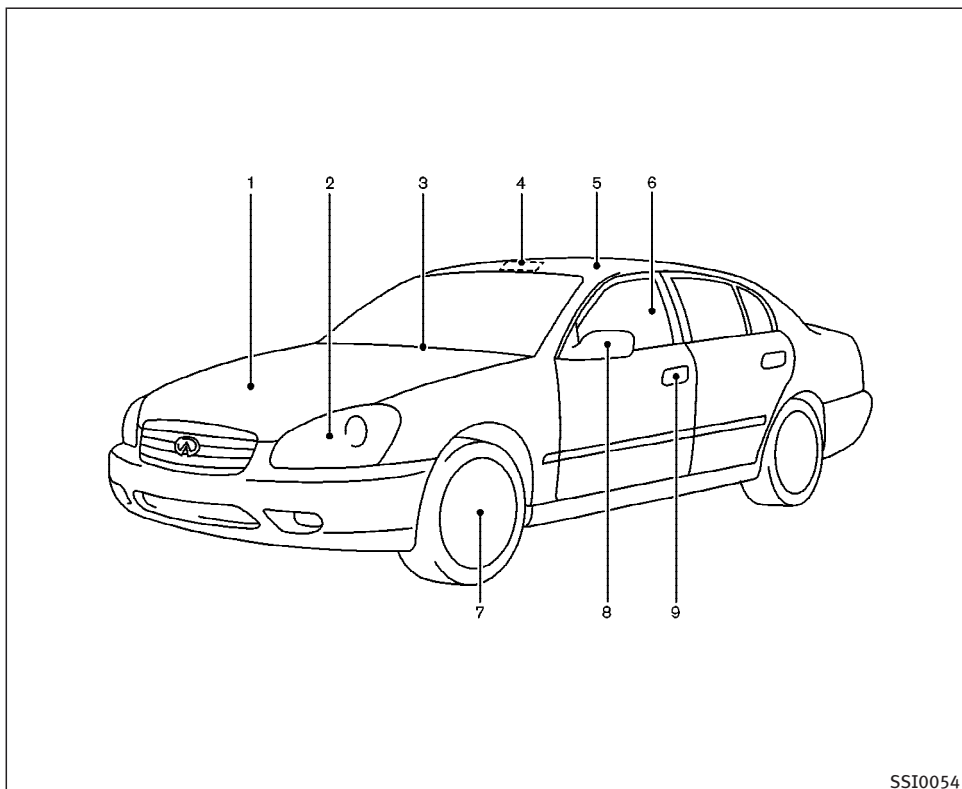
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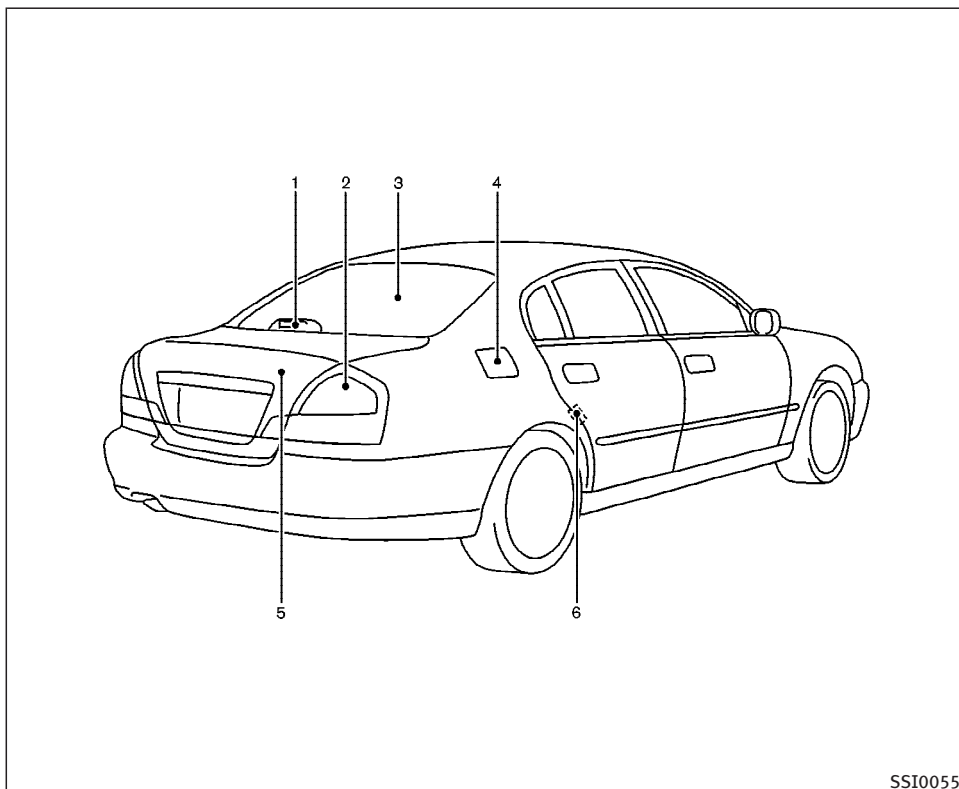
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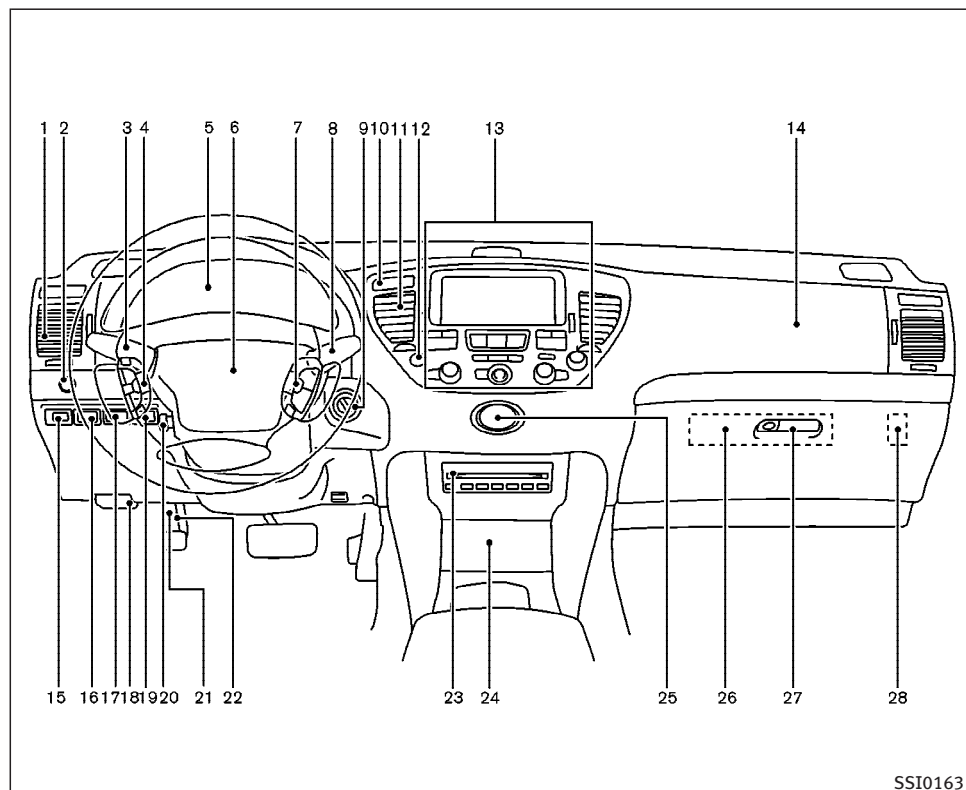
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INSTRUMENT PANEL



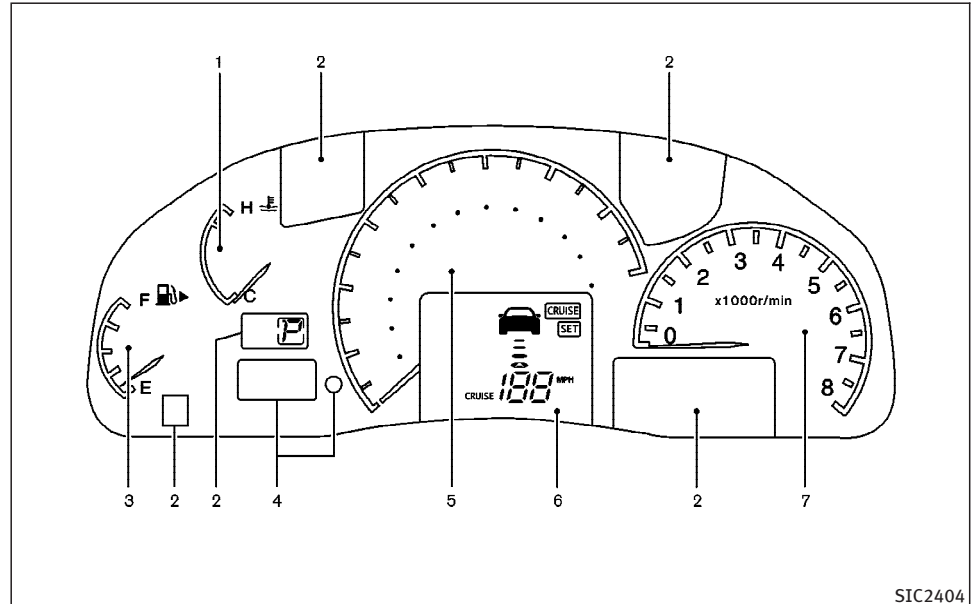
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METERS AND GAUGES

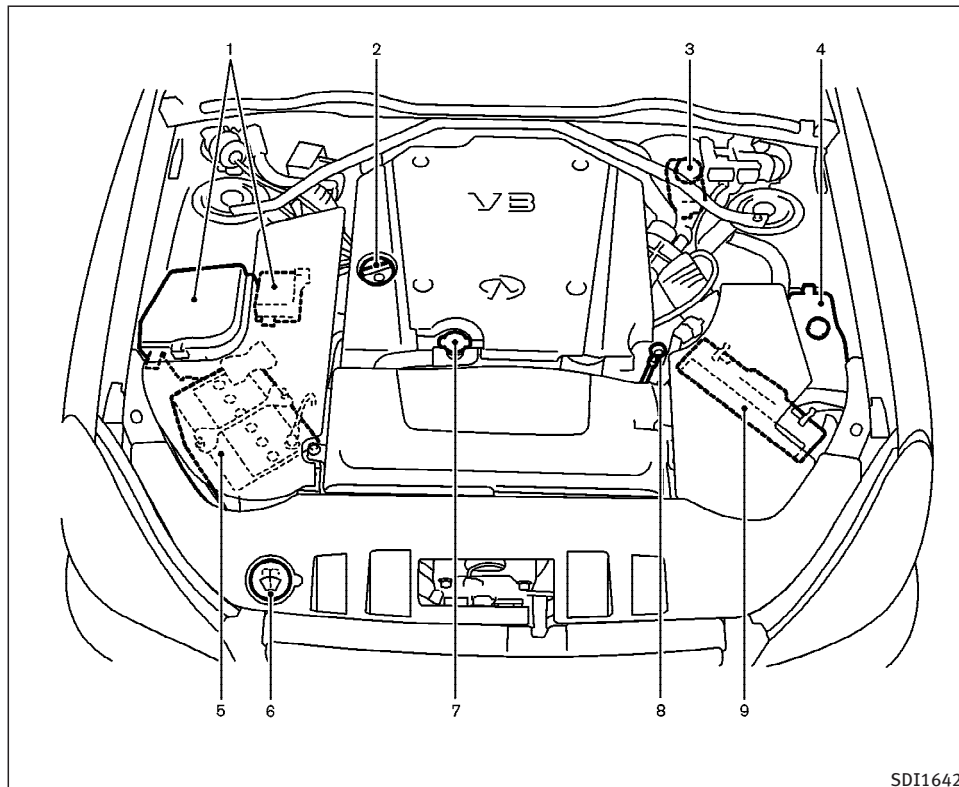
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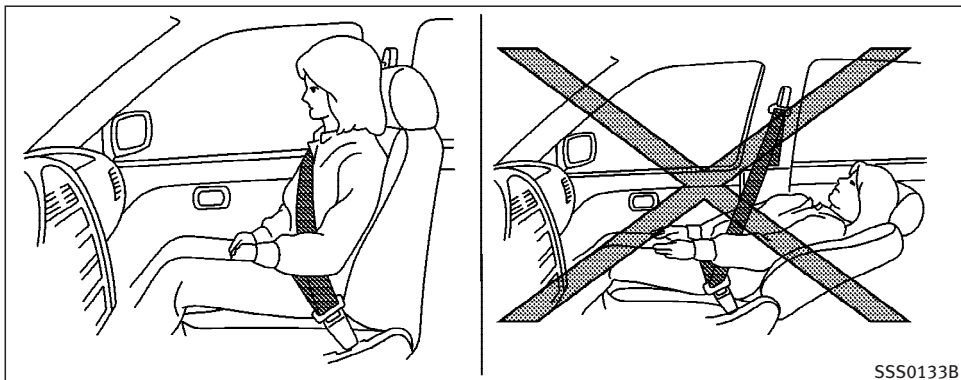
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1 Safety – Seats, seat belts and supplemental restraint system

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SEATS



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 and adjust the seat belt properly. See “Precautions on seat belt usage” later in this section.

FRONT POWER SEAT ADJUSTMENT



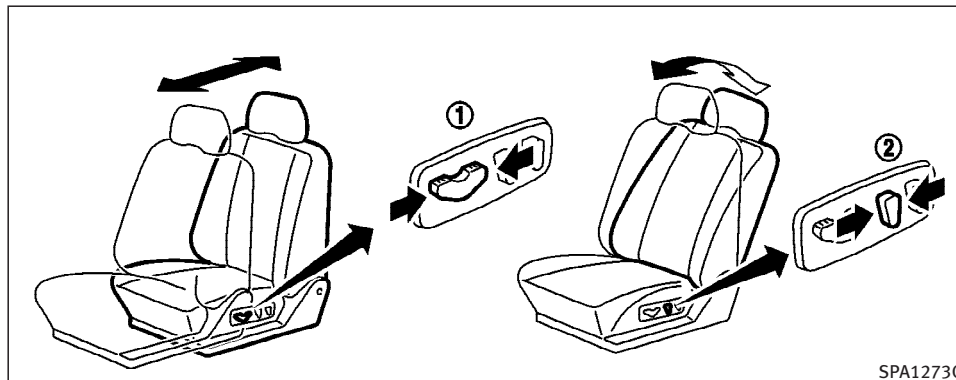
WARNING

- Do not adjust the driver's seat while driving so full attention may be given to vehicle operation. The seat may move suddenly and could cause loss of control of the vehicle.
- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.

Operating tips

- The 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 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 automatic drive positioner operation.



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Forward and backward

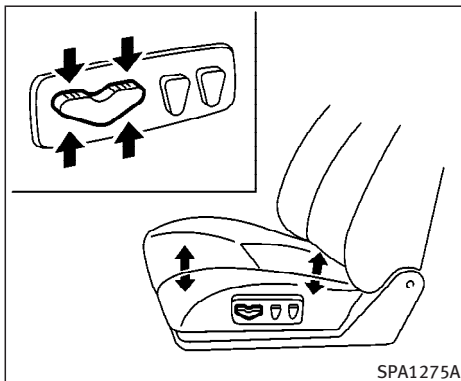
Moving the switch ① forward or backward will slide the seat forward or backward to the desired position.

Reclining

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

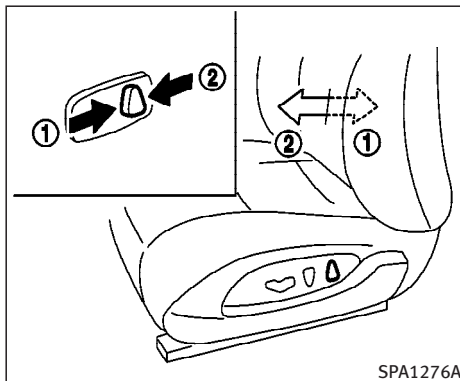
The reclining feature allows adjustment of the seatback for occupants of different sizes for added comfort and to help obtain proper seat belt fit. (See “Precautions on

seat belt usage” later in this section.) The seatback may also be reclined to allow occupants to rest when the vehicle is parked.



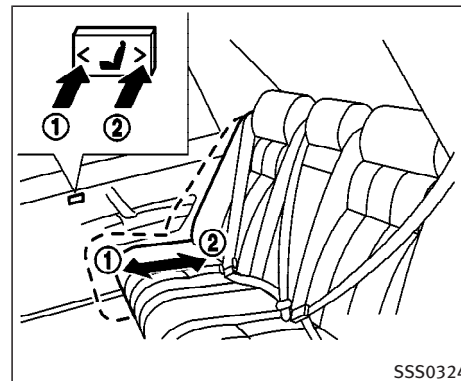
Seat lifter

Push the front or rear end of the switch up or down to adjust the angle and height of the seat.



Lumbar support (driver's seat)

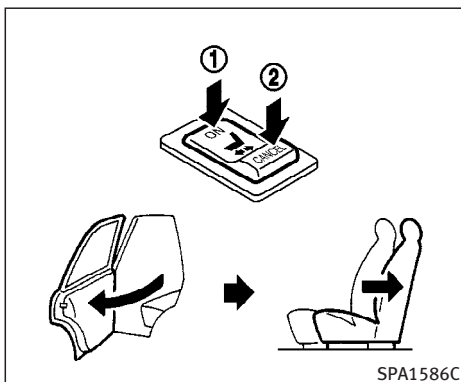
The lumbar support feature provides lower back support to the driver. Move the lower part of the switch forward or backward to adjust the seat lumbar area.



REAR POWER SEAT ADJUSTMENT (if so equipped)

Forward and backward

Push the switch to move the seat forward ① or backward ②. The seats move continuously while the switch is being pushed.



Entry/exit assist (automatic return) (if so equipped)

Pushing the ON side ① of the switch located on the rear armrest, the automatic return function will activate.

When a rear door is opened, the rear seat of the corresponding side automatically slides all the way back, facilitating ease of entry and exit.

Pushing the CANCEL side ② of the switch will deactivate the automatic return function.

Automatic reverse operation (for automatic drive positioner system)

When the driver's seat is moved backward by the automatic drive positioner system, the rear left side seat will automatically move backward when it is reclined, even if the rear seat automatic return switch is in the CANCEL position.

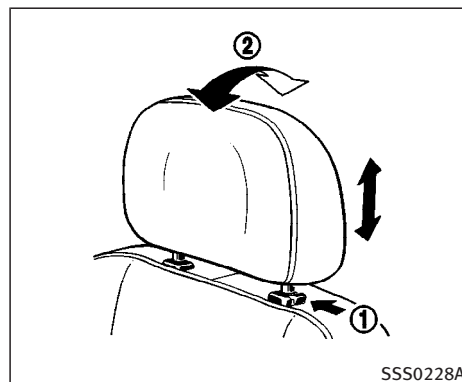
This operation maintains rear passenger foot and knee space.

HEAD RESTRAINT ADJUSTMENT



WARNING

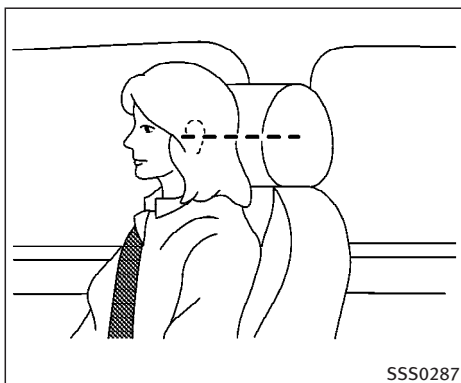
Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Do not remove them. Check the adjustment after someone else uses the seat.



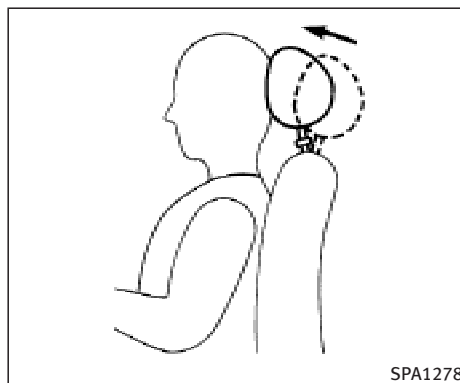
To raise the head restraint, pull it up.

To lower, push the lock knob ① and push the head restraint down.

To adjust the head restraint angle ②, push it in the direction required (except rear center seat head restraint).



Adjust the head restraints as illustrated so the center is level with the center of your ears.



ACTIVE HEAD RESTRAINT (front seats)



WARNING

- Always adjust the head restraints properly as specified in the previous section. Failure to do so can reduce the effectiveness of the active head restraint.
- Active head restraints are designed to supplement other safety systems. Always wear seat belts. No system can

prevent all injuries in any accident.

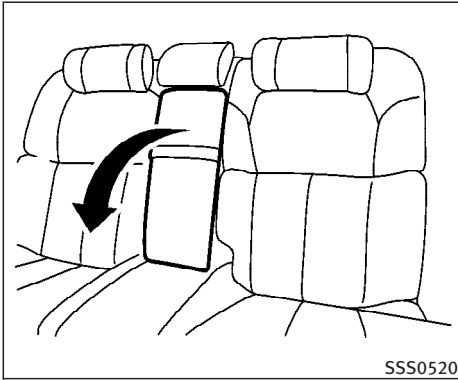
- Do not attach anything to the head restraint stalks. Doing so could impair active head restraint function.

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 injury occurs most.

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

Properly adjust the active head restraints as described in the previous section.



ARMREST

Rear

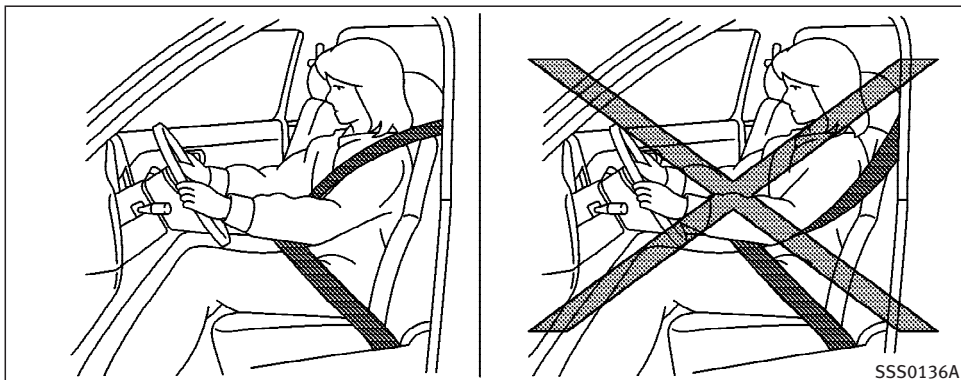
Pull the armrest forward until it is horizontal.

SEAT BELTS

PRECAUTIONS ON SEAT BELT USAGE

If you are wearing your seat belt properly adjusted, and you are sitting upright and well back in your seat, your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced. 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.



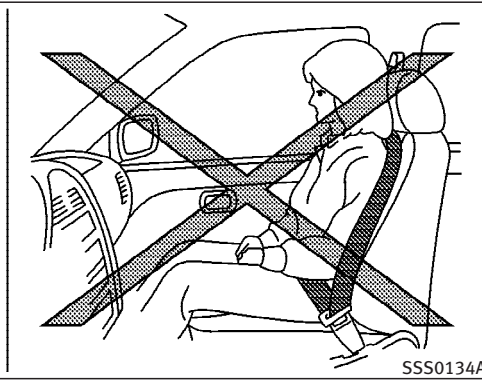
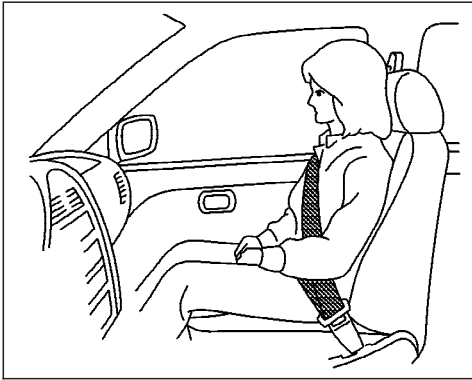
WARNING

- 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

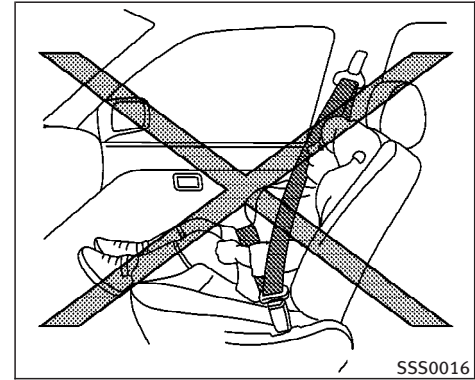
or severity of injury in an accident. Serious injury or death can occur if the seat belt is not worn properly.

- 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 dealer.
- Once the pre-tensioner seat belt has activated, it cannot be reused and must be replaced together with the retractor. See your INFINITI dealer.



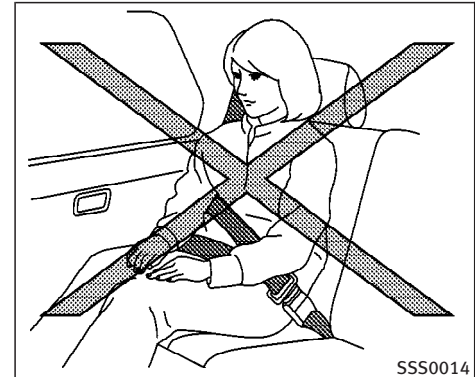
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- Removal and installation of the pretensioner seat belt system components should be done by an INFINITI dealer.
- All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by an INFINITI dealer. 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.



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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
- Front 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 lb (9 kg)) should be placed in rear facing child restraints. Front facing child restraints are available for children who outgrow rear facing child restraints and are at least 1 year old. Booster seats are used to help position a vehicle lap/shoulder belt on a child who can no longer use a front facing child restraint.

1-10 Safety — Seats, seat belts and supplemental restraint system



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.)

Also, there are other types of child restraints available for larger children for additional protection.

INFINITI recommends that all pre-teens and children be restrained in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat. This is especially important because your vehicle has a supplemental restraint system (air bag system) for the front passenger. See

"Supplemental restraint system" earlier in this section.

Infants

Infants up to at least one 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 which fits your vehicle and always follow the manufacturer's instructions for installation and use.

Small children

Children that are over one year old and weight between 20 lbs (9 kg) and 40 lbs (18 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 feet 9 inches (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 in the child's seating position 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 areas while the vehicle is moving. The child could be seriously injured or killed in an accident or sudden stop.

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 (front seats)

The pre-crash seat belt tightens the seat belt to help restrain front seat occupants under emergency braking. This can help reduce the risk of injury when a collision occurs.

Pre-crash seat belts will not activate when:

- the brake pedal is not depressed
- the seat belt is not fastened
- the shift lever is in the reverse position
- the vehicle speed is under 10 MPH (15 km/h)

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

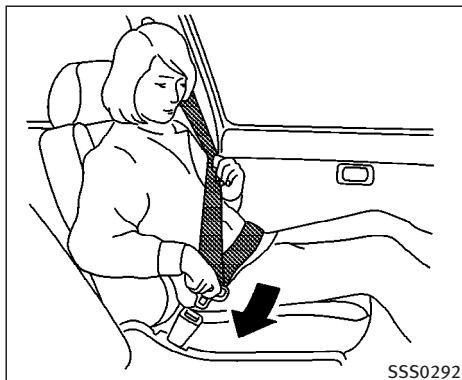
If the seat belt warning light blinks even if the seat belt is fastened, it may indicate the pre-crash seat belt system has a malfunction. Have your INFINITI dealer check and repair the system.

THREE-POINT TYPE SEAT BELT



WARNING

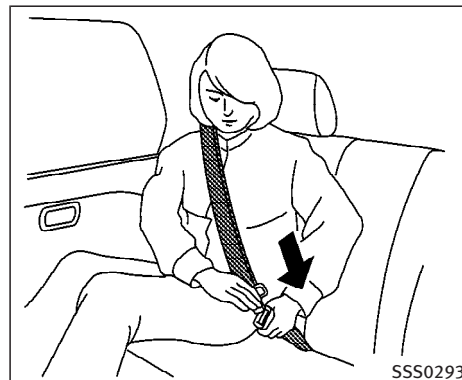
- Every person who drives or rides in this vehicle should use a seat belt at all times.
- Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious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



Front seat

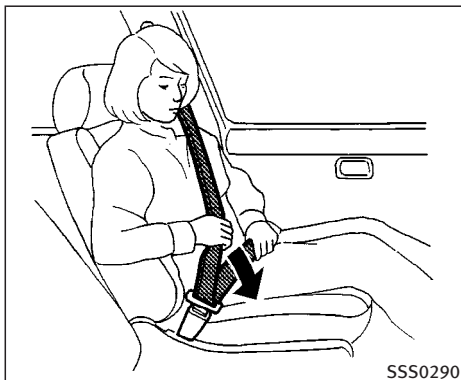
Fastening the seat belts

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 it clicks.
- The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion will permit the belt to move, and allow you some freedom of movement in the seat.



Rear seat

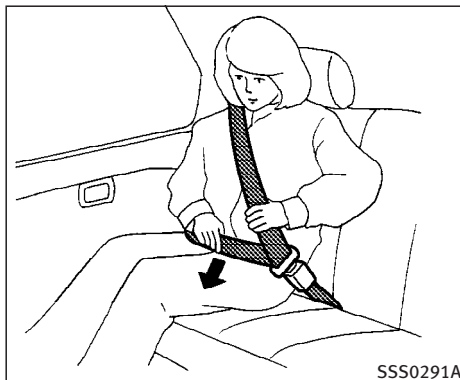
- If the seat belt cannot be pulled from its fully retracted position, firmly pull the belt and release it. Then smoothly pull the belt out of the retractor.



Front seat

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. Make sure the shoulder belt is routed over your shoulder and across your chest.

The front passenger and rear seat belts have a locking mechanism for child restraint installation. It is referred to as the automatic locking mode or child restraint mode.



Rear seat

When the automatic locking mechanism is activated the seat belt cannot be extended again until the seat belt tongue is detached from the buckle and fully retracted. Once retracted, the seat belt is in the emergency locking mode. For additional information, see “Child restraints” later in this section.

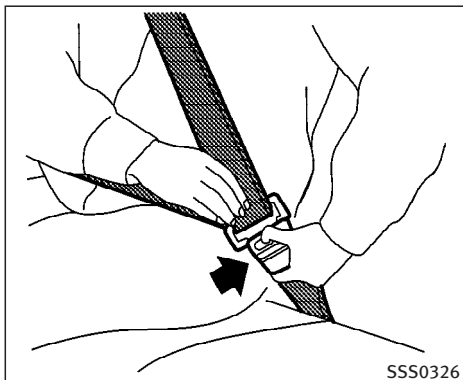
The automatic locking mode should be used only for child restraint installation. During normal seat belt use by an occupant, the locking mode should not be activated. If it is activated it may cause uncomfortable seat belt tension. It can also change the operation of the front pas-

senger air bag. See “Front passenger air bag and status light” later in this section.



WARNING

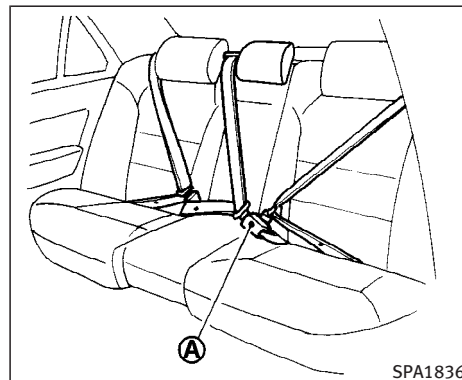
When fastening the seat belts, be certain that seatbacks are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.



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 belt operation, see your INFINITI dealer.



Unfastening the seat belts

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

Checking seat belt operation

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

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

Center of rear seat

Selecting correct set of seat belts:

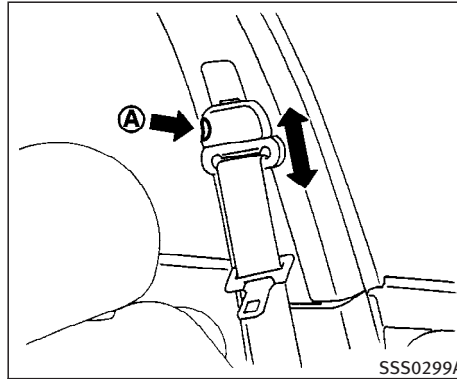
The center seat belt buckle is identified by the CENTER mark (A). The center seat belt tongue can be fastened **only** into the center seat belt buckle.

Shoulder belt height adjustment (for front seats)

The shoulder belt anchor height should be adjusted to the position best for you. See earlier in “Seat belts” for precautions on seat belt usage.

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.



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 button to lock the shoulder belt anchor into position.

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 is available. The extender adds approximately 8 in (200 mm) of length and may be

used for either the driver or front passenger seating position. See your INFINITI dealer for assistance if the extender is required.

WARNING

- Only INFINITI 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 webbings, apply a mild soap solution or any non-caustic solution recommended for gently cleaning cloth upholstery or carpets.

CHILD RESTRAINTS

Then brush it, wipe with a cloth and allow it 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 are found, the entire belt assembly should be replaced.

PRECAUTIONS ON CHILD RESTRAINTS



WARNING

- **Infants and small children should always be placed in an appropriate child restraint while riding in the vehicle. Failure to use a child restraint can result in serious injury or death.**
- **Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.**
- **Never install a rear-facing child restraint in the front seat. An inflating supplemental front air bag could seriously injure or kill your child. A rear-facing child restraint must only be used in the rear seat.**
- **INFINITI recommends that the child restraint be installed in the rear seat.**

According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.

- **An improperly installed child restraint could lead to serious injury or death in an accident.**

In general, child restraints are designed to be installed with the lap portion of a lap/shoulder seat belt. In addition, this vehicle is equipped with a universal child restraint lower anchor system, referred to as the LATCH (Lower Anchors and Tethers for Children) system. Some child restraints include two rigid or webbing-mounted attachments that can be connected to these lower anchors. For details, see “LATCH (Lower Anchors and Tether for Children) SYSTEM” later in this section.

Child restraints for infants and children of various sizes are offered by several manufacturers. When selecting any child restraint system, keep the following points in mind:

- 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 approved child restraints at all times while the vehicle is being operated.



WARNING

- Improper use of a child restraint can increase the risk or severity of injury for both the child and other occupants of the vehicle.

- Follow all of the child restraint manufacturer's instructions for installation and use. When purchasing a child restraint, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of child restraints in your vehicle.
- If the child restraint is not anchored properly, the risk of a child being injured in a collision or a sudden stop greatly increases.
- Adjustable seatbacks should be positioned to fit the child restraint, but as upright as possible.
- After attaching the child restraint, test it before you place the child in it. Push it from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. The child restraint should not move more than 1 inch (25 mm). If the restraint is not secure, tighten the 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 re-

straints fit in all types of vehicles.

- If you must install a front facing child restraint in the front seat, see "Child restraint installation on front passenger seat" later in this section for details.
- When your child restraint is not in use, keep it secured with a seat belt to prevent it from being thrown around in case of a sudden stop or accident.



CAUTION

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

CHILD RESTRAINT INSTALLATION ON REAR SEAT OUTBOARD OR CENTER POSITIONS

Front facing



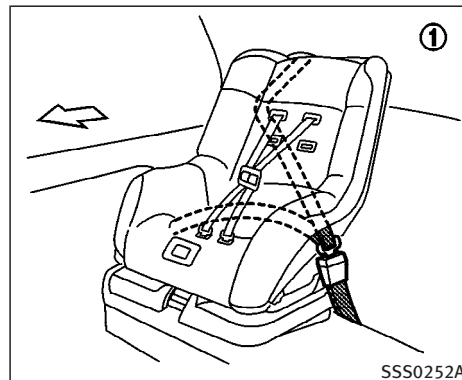
WARNING

- The three-point belt in your vehicle is equipped with an automatic locking mode retractor which must be used when installing a child restraint.
- Failure to use the retractor's locking mode will result in the child restraint not being properly secured. The restraint could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.

If your vehicle is equipped with rear power seat adjustment, note the following:

- **Attach the child restraints after adjusting the rear outboard seats to the rear-most position.**
- **Do not move the rear outboard seats with the child restraints attached to them.**

When you install a front facing child restraint in a rear outboard or center seat, follow these steps:

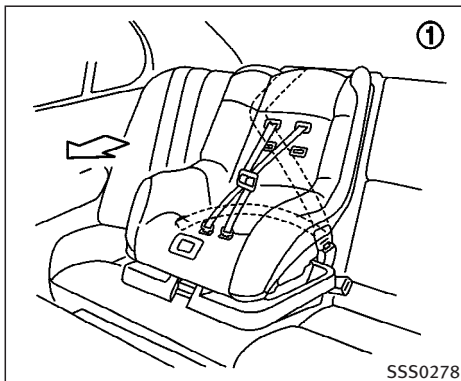


Rear outboard seat

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

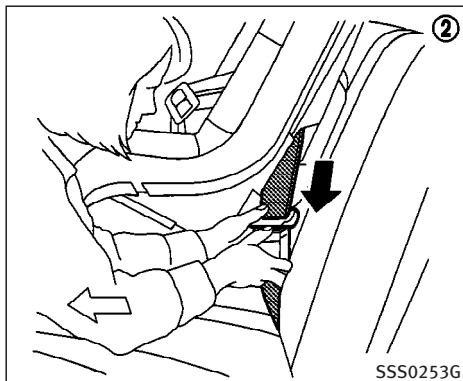
The back of the child restraint should be secured against the vehicle seat-back. If necessary, adjust or remove the head restraint to obtain the correct child restraint fit. See "Head restraint adjustment" earlier in this section.

If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed.

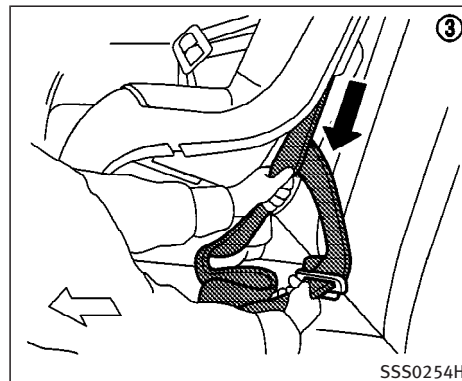


Rear center seat

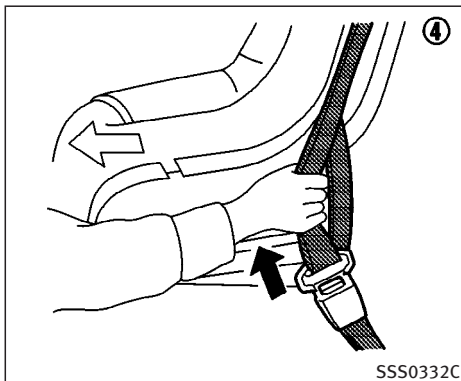
If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



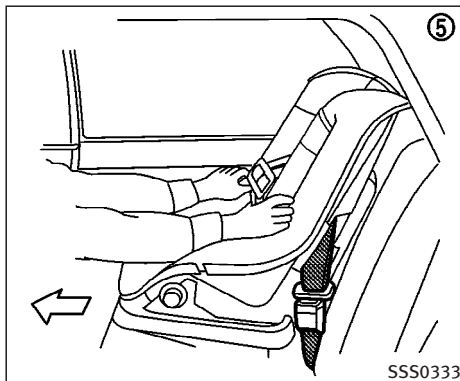
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the 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. Before placing the child in the child restraint, use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 inch (25 mm). If it does move more than 1 inch (25 mm), pull again on the shoulder belt to further tighten the child restraint. If unable to properly secure the restraint, move the restraint to another rear seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.

6. Check that the retractor is in the automatic locking mode by trying to pull more seat belt out of the retractor. If you cannot pull any more seat belt webbing out of the retractor, the retractor is in the automatic locking mode.
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 3 through 6.

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

Rear facing



WARNING

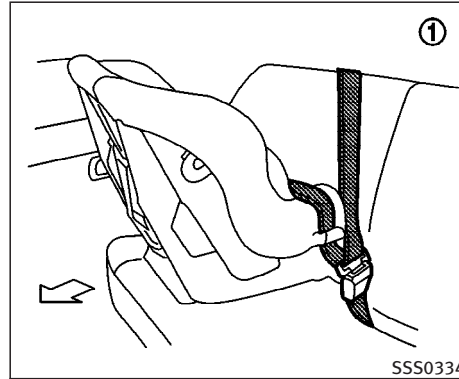
- The three-point belt in your vehicle is equipped with an automatic locking mode retractor which must be used when installing a child restraint.
- Failure to use the retractor's locking mode will result in the child restraint not being properly secured. The restraint

could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.

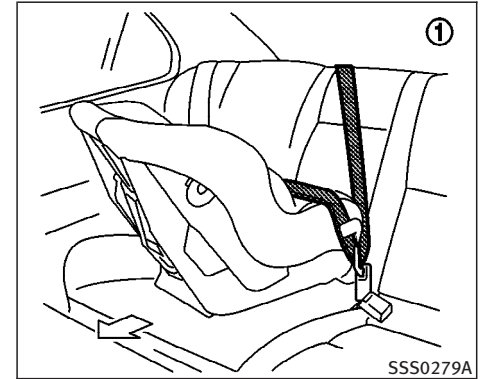
If your vehicle is equipped with rear power seat adjustment, note the following:

- **Attach the child restraints after adjusting the rear outboard seats to the rear-most position.**
- **Do not move the rear outboard seats with the child restraints attached to them.**

When you install a rear facing child restraint in the rear seat, follow these steps:

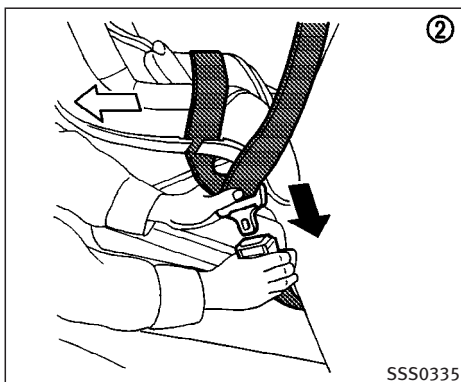


Rear outboard seat

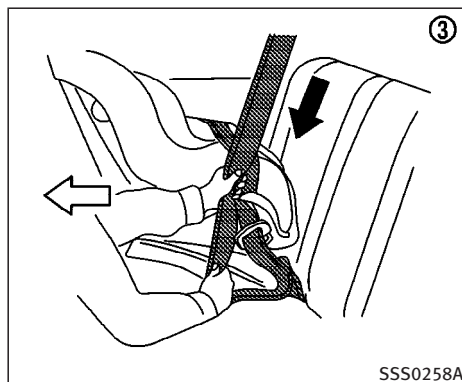


Rear center seat

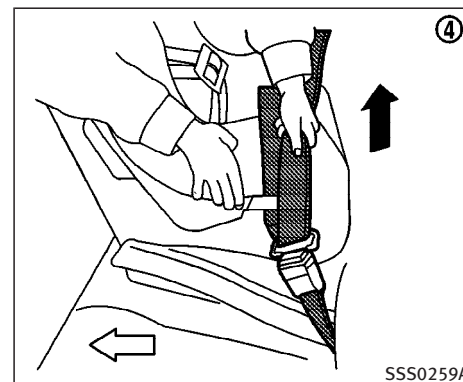
1. Position the child restraint on the seat. Always follow the restraint manufacturer's instructions.



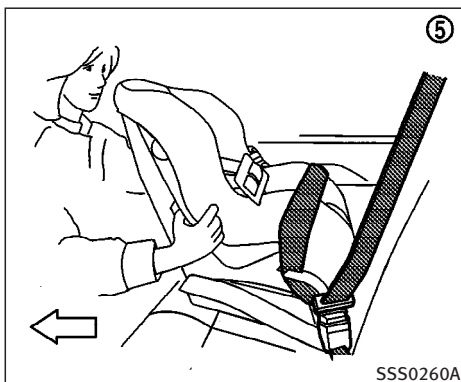
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the seat belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the belt is fully retracted.



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

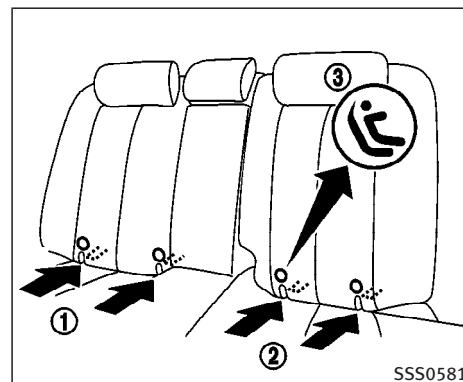


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5. Before placing the child in the child restraint, use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 inch (25 mm). If it does move more than 1 inch (25 mm), pull again on the shoulder belt to further tighten the child restraint. If unable to properly secure the restraint, move the restraint to another rear seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.

6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the retractor is in the automatic locking mode.
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 3 through 6.

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



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LATCH (Lower Anchors and Tethers for Children) SYSTEM

1. LATCH Lower anchor points (right)
2. LATCH Lower anchor points (left)
3. LATCH Label
(1 and 2 are located in the space between the seatback and seat cushion)

The LATCH (Lower Anchors and Tethers for Children) anchor points are located in the seat cushions of the rear outboard seating positions only. Do not attempt to install a child restraint in the center position using the LATCH anchors.

The LATCH system 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 system anchors.



WARNING

- **Attach LATCH system compatible child restraints only at the locations shown. If a child restraint is not secured properly, your child could be seriously injured or killed in an accident.**
- **The LATCH system anchors are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstance are they to be used for adult seat belts or harnesses.**

If your vehicle is equipped with rear power seat adjustment, note the following:

- **Attach the child restraints after adjusting the rear outboard seats to the rear-most position.**
- **Do not move the rear outboard seats with the child restraints attached to them.**

Some child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. This system is known as the LATCH system. 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. Your vehicle is equipped with special anchor points that are used with LATCH system compatible child restraints. Check your child restraint for a label stating that it is compatible with the LATCH system. This information may also be in the instructions provided by the child restraint manufacturer. If you have such a child restraint, refer to the illustration for the seating positions equipped with LATCH system anchors which can be used to secure the child restraint.

LATCH child restraints generally require the use of a top tether strap. See “Top tether

strap child restraint” later in this section for installation instructions.

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

When you install a LATCH system compatible child restraint to the lower anchor attachments, follow these steps:



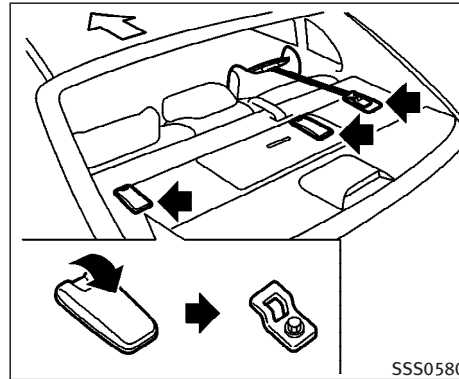
WARNING

Inspect the lower anchors by inserting your fingers into the lower anchor area and feeling to make sure there are no obstructions over the LATCH system anchors, such as seat belt webbing or seat cushion material. The child restraint will not be secured properly if the LATCH system anchors are obstructed.

1. To install the LATCH system compatible child restraint, insert the child restraint LATCH system anchor attachments into the anchor points on the rear seat. If the child restraint is equipped with a top tether, see “Top tether strap child

restraint” later in this section for installation instructions.

2. After attaching the child restraint and before placing the child in it, use force to push the child restraint from side to side and tug it forward to make sure that the child restraint is securely held in place. It should not move more than 1 inch (25 mm).
3. Check to make sure that the child restraint is properly secured prior to each use.



TOP TETHER STRAP CHILD RESTRAINT

WARNING

- Child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

- After removing a rear seat head restraint for top tether installation, store it securely to prevent it from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident. Always replace it and adjust properly when top tether is no longer in use.

If your child restraint has a top tether strap, it must be secured to the anchor point provided behind its position.

First, adjust the seatback so that it is upright. Then secure the child restraint with the rear seat belt or the LATCH system (outboard positions), as applicable.

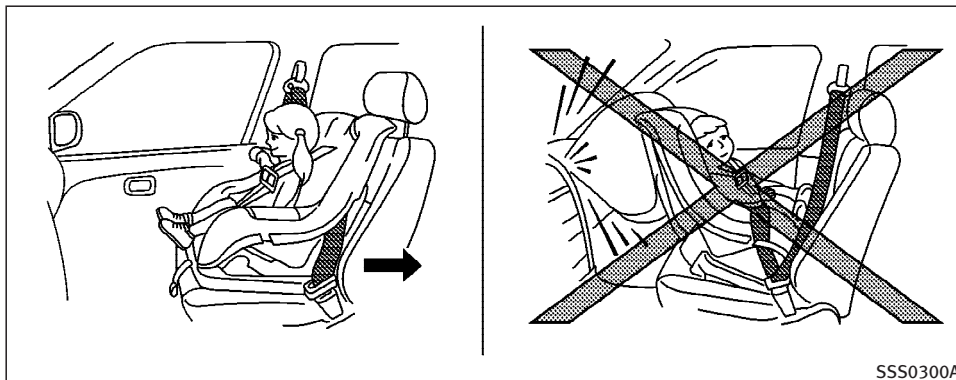
Remove the head restraint from the seatback. Store it in a secure place. Position the top tether strap over the top of the seatback and secure it to the tether anchor bracket that provides the straightest installation. Tighten the tether strap according to the manufacturer's instruction to remove any slack.

For best child restraint fit, see the child restraint installation instructions in this section and the child restraint manufacturer's instructions.

Anchor point locations

Anchor points are located under the rear parcel shelf finisher.

If you have any questions when installing a top strap child restraint on the rear seat, consult your INFINITI dealer for details.



CHILD RESTRAINT INSTALLATION ON FRONT PASSENGER SEAT



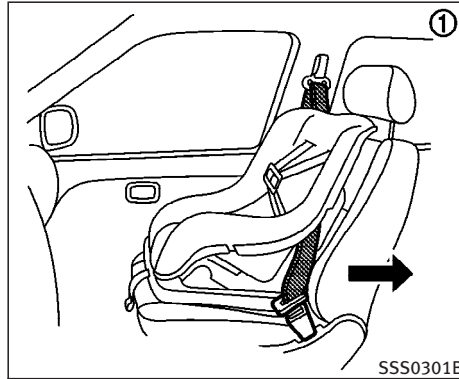
WARNING

- Never install a rear-facing child restraint in the front passenger seat. Supplemental front air bags inflate with great force. A rear-facing child restraint could be struck by the supplemental front air bag in a crash and could seriously injure or kill your child.

- INFINITI recommends that child restraints be installed in the rear seat. However, if you must install a forward-facing child restraint in the front passenger seat, move the passenger seat to the rearmost position. Also, be sure the front passenger air bag status light is illuminated to indicate the passenger air bag is OFF. See “Front passenger air bag and status light” later in this section for details.

- A child restraint with a top tether strap should not be used in the front passenger seat.
- The three-point seat belt in your vehicle is equipped with an automatic locking mode retractor which must be used when installing a child restraint.
- Failure to use the retractor's locking mode will result in the child restraint not being properly secured. The child restraint could tip over or otherwise be unsecured and cause injury to the 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.

If you must install a child restraint in the front seat, follow these steps:



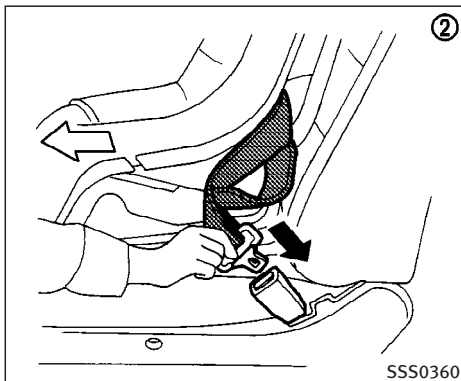
1. Position the child restraint on the front passenger seat. **It should be placed in a front facing direction only.** Move the seat to the rear most position. Adjust the head restraint to its highest position. Always follow the child restraint manufacturer's instructions. **Child restraints for infants must be used in the rear facing direction and therefore must not be used in the front seat.**

The back of the child restraint should be secured against the vehicle seat-back. If necessary, adjust or remove the head restraint to obtain the correct

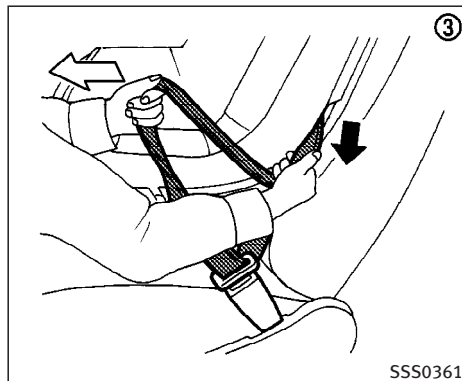
child restraint fit. See "Head restraint adjustment" earlier in this section.

If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the child restraint is removed.

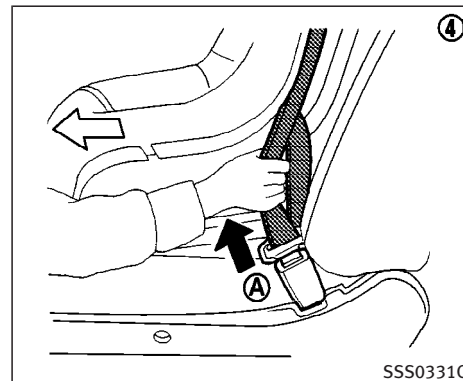
If the seating position does not have an adjustable head restraint and it is interfering with the proper child restraint fit, try another seating position or a different child restraint.



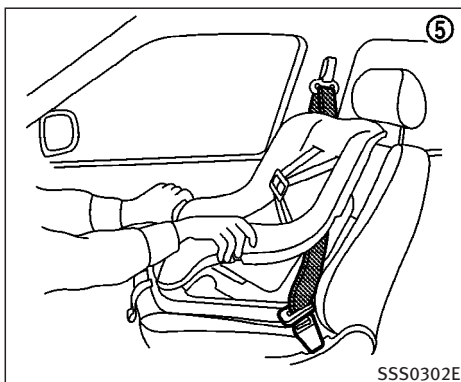
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.




3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It reverts back to emergency locking mode when the belt is fully retracted.



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



5. Before placing the child in the child restraint, use force to push the child restraint from side to side, and tug it forward to make sure that it is securely held in place. It should not move more than 1 inch (25 mm). If it does move more than 1 inch (25 mm), pull again on the shoulder belt to further tighten the child restraint. If unable to properly secure the restraint, move the restraint to another rear seating position and try again, or try a different child restraint. Not all child restraints fit in all types of vehicles.

6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the retractor is in the automatic locking mode.
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 3 through 6.
8. Turn the ignition switch to the ON position. The passenger air bag status light  should illuminate. If this light is not illuminated, see “Front passenger air bag and status light” later in this section. **Move the child restraint to another seating position.** Have the system checked by an INFINITI dealer.

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

BOOSTER SEATS

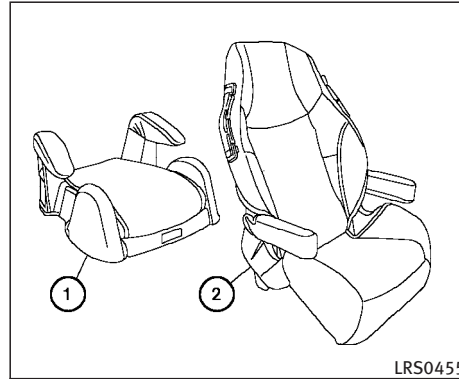
PRECAUTIONS ON BOOSTER SEATS



WARNING

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

- A booster seat must only be installed in a seating position that has a lap/shoulder seat belt. Failure to use a three-point type seat belt with a booster seat can result in a serious injury in sudden stop or collision.
- An improperly installed booster seat could lead to serious injury or death in an accident.



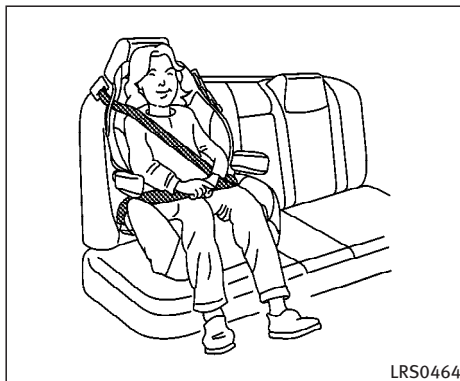
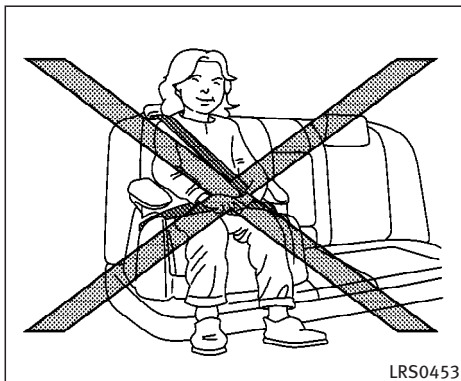
WARNING

Do not use towels, books, pillows or other items in place of a booster seat. Items such as these may move during normal driving or a collision and result in serious injury or death. Booster seats are designed to be used with a lap/shoulder belt. Booster seats are designed to properly route the lap and shoulder portions of the seat belt over the strongest portions of a child's body to

provide the maximum protection during a collision.

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 be sure 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 ① 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 ② 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 provinces of Canada require that infants and small children be restrained in an approved child restraint at all times while the vehicle is being operated.



WARNING

- **Improper use of a booster seat can increase the risk or severity of injury for both the child and other occupants of the vehicle.**
- **Follow all of the booster seat manufacturer's instructions for installation and use. When purchasing a booster seat, be sure to select one which will fit your child and vehicle. It may not be possible to properly install some types of booster seats in your vehicle.**
- **If the booster seat and seat belt are not used properly, the risk of a child being injured in a collision or a sudden stop greatly increases.**

- Adjustable seatbacks should be positioned to fit the booster seat, but as upright as possible.
- After placing the child in the booster seat and fastening the seat belt, 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 abdomen.
- Do not put the shoulder belt behind the child or under the child's arm. If you must install a booster seat in the front seat, see "Booster seat installation on front passenger seat" later in this section.
- When your booster seat is not in use, keep it secured with a seat belt to prevent it from being thrown around in case of a sudden stop or accident.



CAUTION

Remember that a booster seat left in a closed vehicle can become very hot. Check

the seating surface and buckles before placing your child in the booster seat.



LRS0452

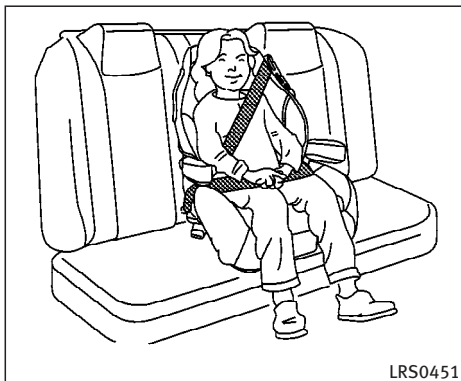
Outboard position BOOSTER SEAT INSTALLATION ON REAR SEAT OUTBOARD OR CENTER POSITIONS



CAUTION

Do not use the lap/shoulder belt automatic locking mode when using a booster seat with the seat belts.

If your vehicle is equipped with rear power seat adjustment, note the following:



Center position

- **Attach the child restraints after adjusting the rear outboard seats to the rear-most position.**
- **Do not move the rear outboard seats with the child restraints attached to them.**

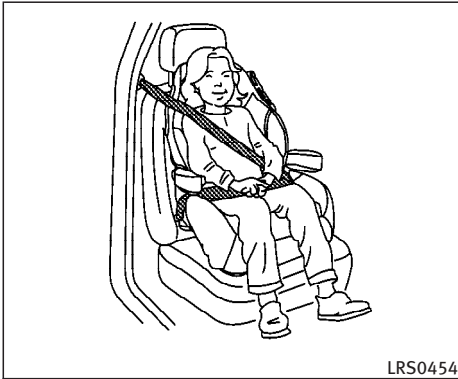
When you install a booster seat in the rear seat, follow these steps:

1. Position the booster seat on the seat. Only place it in a front facing direction. Always follow the booster seat manufacturer's instructions.

2. The booster seat should be positioned on the vehicle seat so that it is stable. If necessary, adjust or remove the head restraint to obtain the correct booster seat fit. See "Head restraint adjustment" earlier in this section. If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the booster seat is removed. If the seating position does not have an adjustable head restraint and it is interfering with the proper booster seat fit, try another seating position or a different booster seat.

3. 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 belt routing.
4. 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 belt routing.
5. Follow the warnings, cautions and instructions for properly fastening a seat

belt shown in the "Three-point seat belt with retractor" earlier in this section.



BOOSTER SEAT INSTALLATION ON FRONT PASSENGER SEAT




WARNING

INFINITI recommends that child restraints be installed in the rear seat. However, if you must install a booster seat in the front passenger seat, move the passenger seat to the rearmost position. Also, be sure the front passenger air bag status light is illuminated to indicate the passenger air bag is OFF. See

“Front passenger air bag and status light” later in this section for details.

If you must install a booster seat in the front seat, follow these steps:

1. Move the seat to the rearmost position.
2. Position the booster seat on the seat. Only place it in a front 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 to obtain the correct booster seat fit. See “Head restraint adjustment” earlier in this section. If the head restraint is removed, store it in a secure place. Be sure to install the head restraint when the booster seat is removed. If the seating position does not have an adjustable head restraint 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 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 (Lower Anchors and Tethers for CHildren) adjusting the belt routing.
6. Follow the warnings, cautions and instructions for properly fastening a seat belt shown in the “Three-point seat belt with retractor” earlier in this section.
7. Turn the ignition switch to the ON position. The passenger air bag status light  should illuminate. If this light is not illuminated, see “Front passenger air bag and status light” later in this section. **Move the booster seat to another seating position.** Have the system checked by an INFINITI dealer.

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 side-impact supplemental air bags, curtain side-impact air bags and front seat pretensioner seat belts.

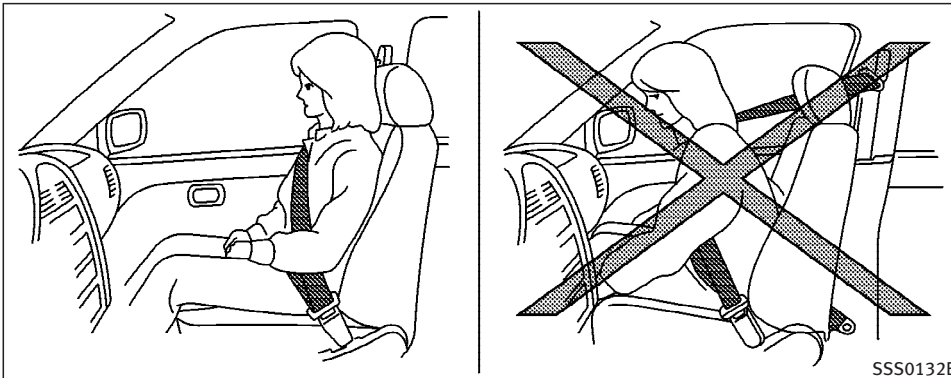
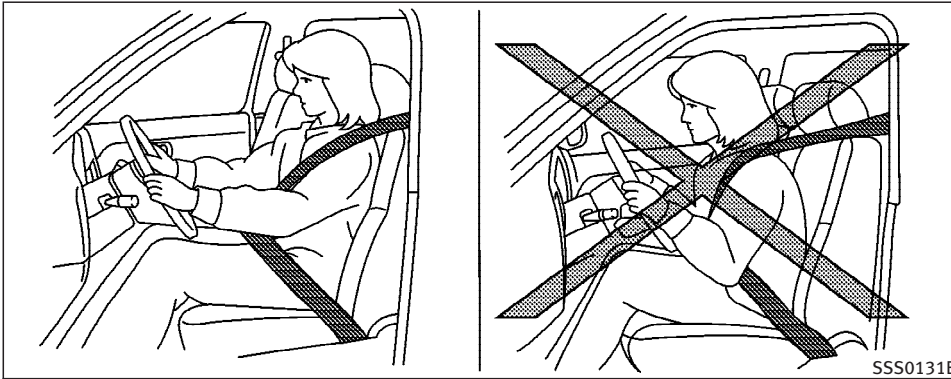
Supplemental front impact air bag system: The INFINITI advanced air bag system can help cushion the impact force to the face and chest of the driver and front passenger in certain frontal collisions.

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

Supplemental side-impact curtain 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 side-impact 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.)

After turning the ignition key 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.



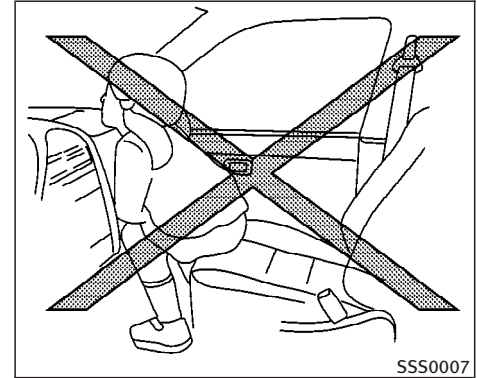
WARNING

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

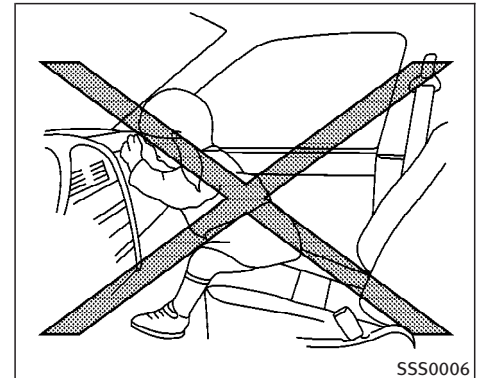
front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.

- 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 then inflates the air bags based on belt usage. 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 (pressure 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

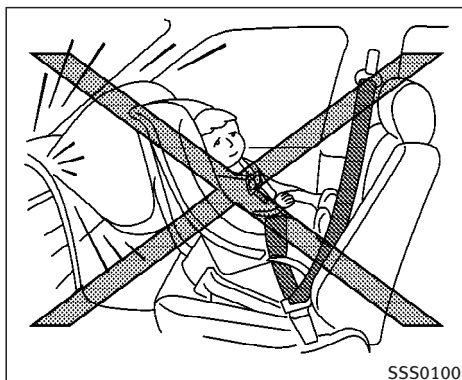
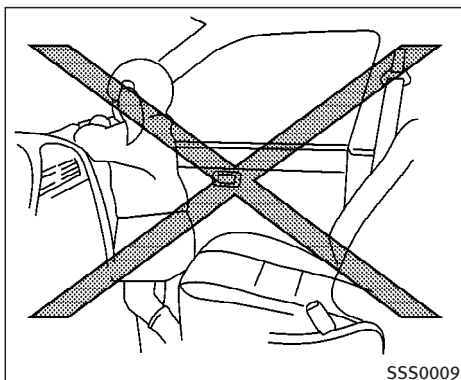
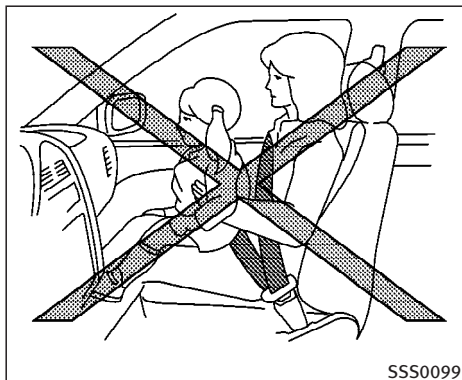
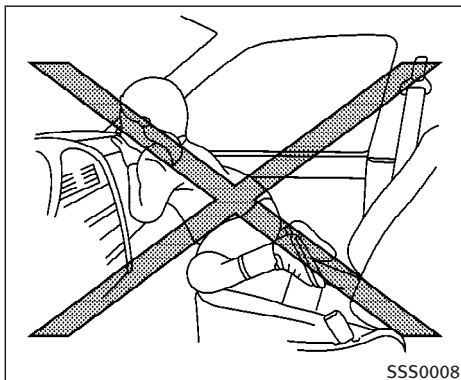
steering wheel. Placing them in side the steering wheel rim could increase the risk of injury if the supplemental front air bag inflates.



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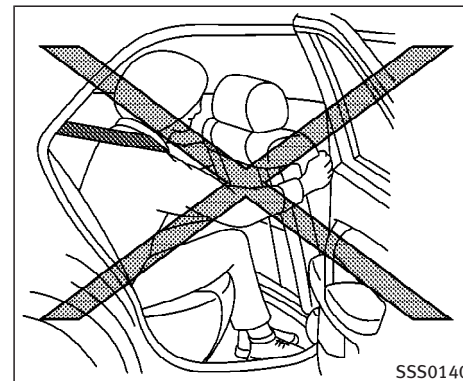
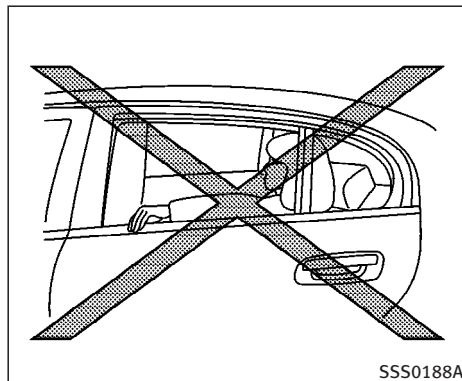
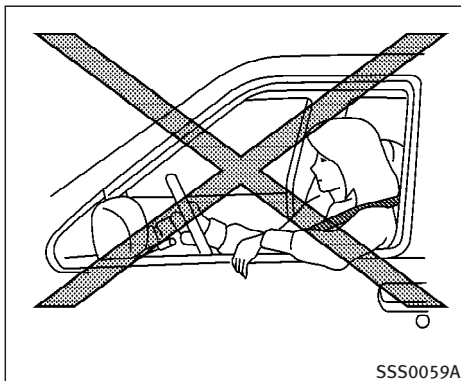


SSS0006



WARNING

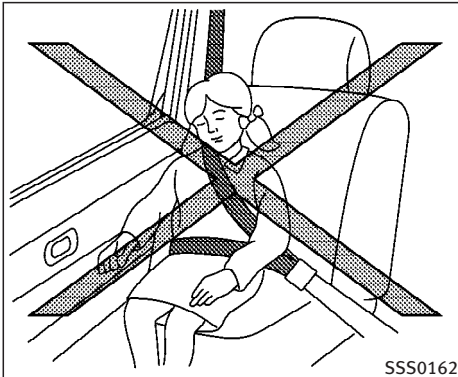
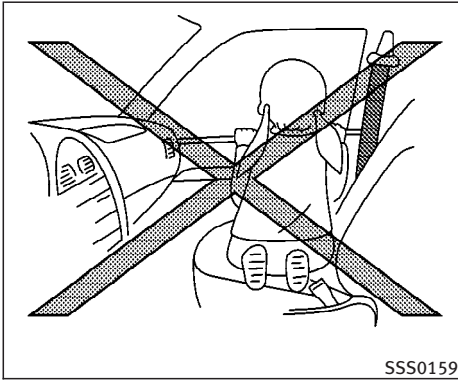
- Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.
- Children may be severely injured or killed when the supplemental front air bags, side air bags or curtain side-impact 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 supplemental front air bag could seriously injure or kill your child. See “Child restraints” earlier in this section for details.



WARNING

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

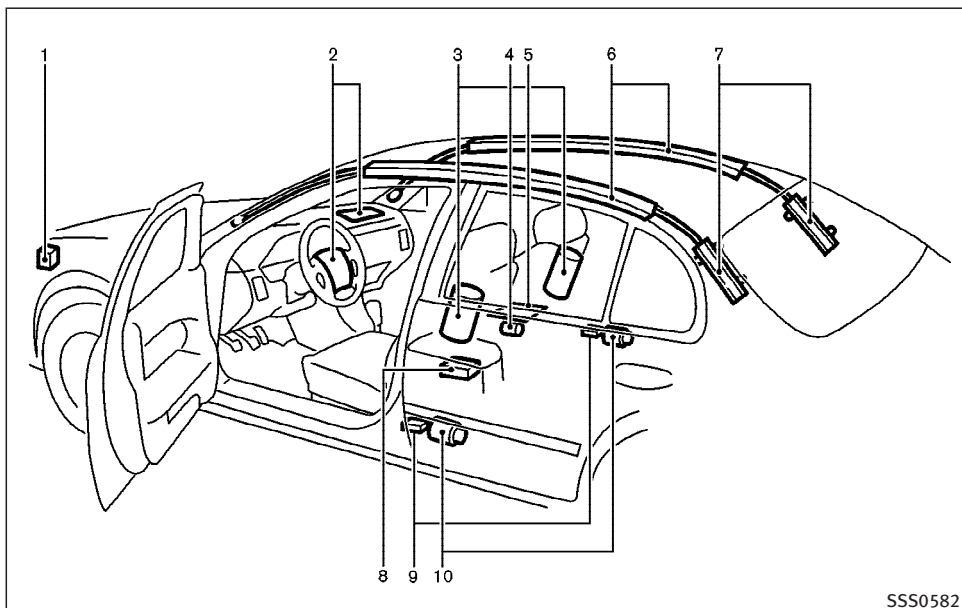
- The supplemental side air bag and curtain side-impact air bag ordinarily will not inflate in the event of a frontal impact, rear impact, rollover or lower severity side collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of



accidents.

- The seat belts, the supplemental side air bags and curtain side-impact air bags are most effective when you are sitting well back and upright in the seat. The side air bag and curtain side-impact 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.



SSS0582

- | | |
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| <ol style="list-style-type: none"> 1. Crash zone sensor 2. Supplemental front air bag modules (INFINITI advanced air bags) 3. Supplemental side air bag modules 4. Occupant classification system control unit | <ol style="list-style-type: none"> 5. Occupant classification sensor (pressure sensor) 6. Supplemental curtain side-impact air bags 7. Supplemental curtain side-impact air bag modules |
|--|--|

8. Diagnosis sensor unit
9. Satellite sensors
10. Seat belt pre-tensioner retractor

INFINITI ADVANCED AIR BAG SYSTEM (for 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 air bag is located in the center of the steering wheel; the front passenger supplemental 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 supplemental air bag operation.

The INFINITI advanced air bag system has dual stage inflators for both the driver

and passenger air bags. The system monitors information from the crash zone sensor, the diagnosis sensor unit, seat belt buckle switches, occupant classification sensor (pressure sensor) and passenger seat belt tension sensor. Inflator operation is based on the severity of a collision and whether the seat belts are being used. For the front right passenger, it additionally monitors the weight of an occupant or object on the seat and seat belt tension. 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 right passenger air bag may be automatically turned OFF under some conditions, depending on the weight detected on the passenger seat and how the seat belt is used. 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 the performance of your air bag system, contact an INFINITI dealer. If you are considering modifications of your vehicle due to a disability, you may also contact an INFINITI dealer. Contact information is contained in the front of this Owner’s Manual.

When the supplemental 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.

Supplemental front air bags, along with the use of seat belts, help to cushion the impact force on the face 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 supplemental 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 air bag will deflate quickly after a collision.

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

After turning 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.

**PASS
AIR BAG
OFF**



SSS0612

Front passenger air bag status light

Front passenger air bag and status light







WARNING

The front passenger air bag is designed to automatically turn OFF under some conditions. Read this section carefully to learn how it operates. Proper use of the seat, seat belt and child restraints is necessary for most effective protection. Failure to

follow all instructions in this manual concerning the use of seats, seat belts and child restraints can increase the risk or severity of injury in an accident.

Status light:

The front passenger air bag status light  is located on the map light cover. The light operates as follows:

- Unoccupied passenger seat: The  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  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  is OFF to indicate that the front passenger air bag is operational.

Front passenger air bag:

The front passenger air bag is designed to automatically turn OFF when the vehicle is

operated under some conditions as described below in accordance with 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. Certain sensors are used to meet the requirements.

One sensor used is the occupant classification sensor (pressure sensor). It is in the bottom of the front passenger seat cushion and is designed to detect an occupant and objects on the seat by weight. It works together with seat belt sensors described later. 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, its weight and the child's weight can be detected and cause the air bag to turn OFF. The occupant classification sensor operation can vary depending on the front passenger seat belt sensors.

The front passenger seat belt sensors are designed to detect if the seat belt is buckled and the amount of tension on the seat belt, such as when it is in the automatic locking mode (child restraint mode). Based on the weight on the seat detected by the occupant classification sensor and the belt tension detected on the seat belt, the advanced air bag system determines whether the front passenger air bag should be automatically turned OFF as required by the regulations.

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 takes his/her weight off the seat cushion (for example, by not sitting upright, by sitting on an edge of the seat, or by otherwise being out of position), this could cause the sensor to turn the air bag OFF. In addition, if the occupant improperly uses the seat belt in the automatic locking mode (child restraint mode), this could cause the air bag to be turned 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 and seat belt sensors are designed to operate as described above to turn the front passenger air bag OFF for specified child restraints as required by the regulations. Failing to properly secure child restraints and to use the automatic locking 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’s weight 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 or is not using the seat belt 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 status light is not lit (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. In rare cases, the passenger air bag status light will not illuminate even though the air bag is OFF.

If such situations happen, properly position and restrain the occupant or child re-

straint. Otherwise reposition the occupant or child restraint in a rear seat. If you have any questions about whether your passenger air bag is working as designed, your dealer can use a special tool to confirm that it is working properly.

The air bag system and passenger air bag status light will take a few seconds to register a change in the passenger seat status. For example, if a large adult who is sitting in the front passenger seat exits the vehicle, the passenger air bag status light will change from OFF to ON for a few seconds and then to OFF. This is normal system operation and does not indicate a malfunction.

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

Other supplemental front 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 supplemental front air bag inflates.

- 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 supplemental 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 supplemental front air bag system.
- Tampering with the supplemental air bag system may result in serious per-

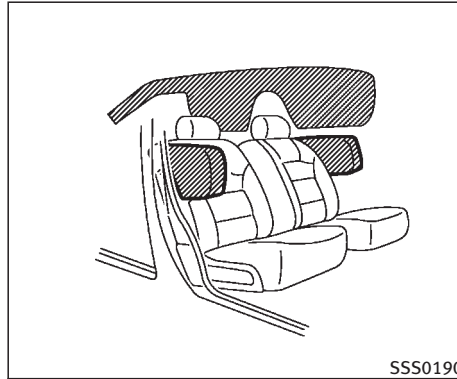
sonal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.

- 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. 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 (pressure sensor).
- No unauthorized changes should be made to any components or wiring of the seat belt system. This may affect the supplemental front air bag system. Tampering with the seat belt system may re-

sult in serious personal injury.

- Work around and on the supplemental front air bag system should be done by an INFINITI dealer. Installation of electrical equipment should also be done by an INFINITI dealer. The yellow and orange Supplemental Restraint System (SRS) wiring and connectors 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 supplemental front air bag system and guide the buyer to the appropriate sections in this Owner's Manual.



SUPPLEMENTAL SIDE AIR BAG AND CURTAIN SIDE-IMPACT AIR BAG SYSTEM

The supplemental side air bags are located in the outside of the seatback of the front seats. The supplemental curtain side-impact 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 supplemental side air bags and curtain side-impact 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 the supplemental side air bag and curtain side-impact air bag 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.

Supplemental side air bags, along with the use of seat belts, help to cushion the impact force on the chest of the front occupants. Curtain side-impact 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 bag and curtain side-impact air bag may cause abrasions or

other injuries. Supplemental side air bags and curtain side-impact 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 away from the side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain side-impact air bag inflate quickly in order to help protect the out-of-position occupants. Because of this, the force of the side air bag and curtain side-impact air bag 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 bag and curtain side-impact air bag will deflate quickly after the collision is over.

The supplemental side air bags and curtain side-impact air bags operate only when the ignition switch is in the ON or START positions.

After turning the ignition key 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

- Do not place any objects near the seat-back 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 the supplemental side air bag inflates.
- Right after inflation, several side air bag and curtain side-impact 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 this side air bag and curtain air bag system. This is to prevent accidental inflation of the side air bag and curtain air bag or damage to the side air bag and curtain air bag system.
- Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the supplemental side air bag and curtain side-

impact air bag system.

- Tampering with the supplemental side air bag system may result in serious personal injury. For example, do not change the front seat by placing material near the seatback or by installing additional trim material, such as seat covers, around the side air bag.
 - Work around and on the side air bag and curtain side-impact air bag system should be done by an INFINITI dealer. Installation of electrical equipment should also be done by an INFINITI dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the side air bag system.
- * The SRS wiring harnesses connectors are yellow and orange for easy identification.

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain side-impact air bag system and

guide the buyer to the appropriate sections in this Owner's Manual.

Pre-tensioner seat belt system (front seats)



WARNING


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

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

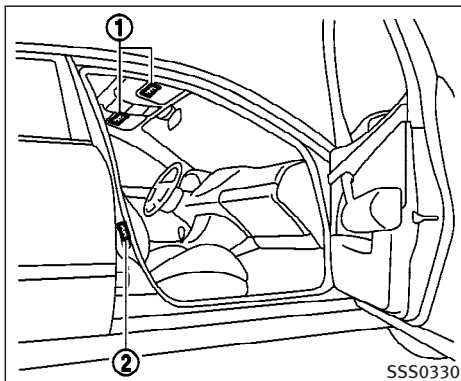
The front seat pre-tensioner seat belt system activates in conjunction with the supplemental air bag systems. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

The pre-tensioner is encased with the seat belt's retractor. These seat belts are used the same as conventional seat belts.

When the pre-tensioner seat belt activates, smoke is released and a loud noise may be heard. The smoke is not harmful, but 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.

If any abnormality occurs in the pre-tensioner system, the supplemental air bag warning light  will not come on, will flash intermittently or will turn on for 7 seconds and remain on after the ignition key has been turned to the ON or START position. In this case, the pre-tensioner seat belt may not function properly. They must be checked and repaired. Take your vehicle to the nearest INFINITI dealer.

When selling your vehicle, we request that you inform the buyer about the pre-tensioner seat belt system and guide the buyer to the appropriate sections in this Owner's Manual.



SUPPLEMENTAL AIR BAG WARNING LABELS

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

① SRS air bag


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

② SRS side-impact air bag

The warning label is located on the side of the passenger's side center pillar.



SUPPLEMENTAL AIR BAG WARNING LIGHT

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

After turning the ignition key 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.

If any of the following conditions occur, the supplemental front air bag, supplemental side air bag and curtain side-impact air bag systems, and pre-tensioner seat belt need servicing:

- The supplemental air bag warning light remains on after approximately 7 seconds after turning the ignition key 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 supplemental front air bags, supplemental side air bags, curtain side-impact air bags and/or pre-tensioner seat belt may not operate properly. They must be checked and repaired. Take your vehicle to the nearest INFINITI dealer.



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 pre-tensioner seat belt will not operate in an accident. To help avoid injury to yourself or others, have your vehicle checked by a dealer as soon as possible.

Repair and replacement procedure

The supplemental front air bags, supplemental side air bags, curtain side-impact air bags and pre-tensioner seat belt 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 dealer.

When maintenance work is required on the vehicle, the supplemental front air bags, side air bags, curtain side-impact air bags, related parts and pre-tensioner seat belt should be pointed out to the person con-

ducting the maintenance. The ignition key should always be in the LOCK position when working under the hood or inside the vehicle.



WARNING

- Once the supplemental front air bag, side air bag or curtain side-impact air bag has inflated, the air bag module will not function again and must be replaced. Additionally, if any of the supplemental front air bags inflate, the activated pre-tensioner seat belt must also be replaced. The air bag module and pre-tensioner seat belt system should be replaced by an INFINITI dealer. The air bag modules and pre-tensioner seat belt system cannot be repaired.
- The supplemental front air bag, side air bag and curtain air bag systems and pre-tensioner seat belt system should be inspected by an INFINITI dealer if there is any damage to the front end or side portion of the vehicle.
- If you need to dispose of the supple-

mental air bag, pre-tensioner seat belt system or scrap the vehicle, contact an INFINITI dealer.

Correct supplemental air bag and pre-tensioner seat belt system disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.

MEMO

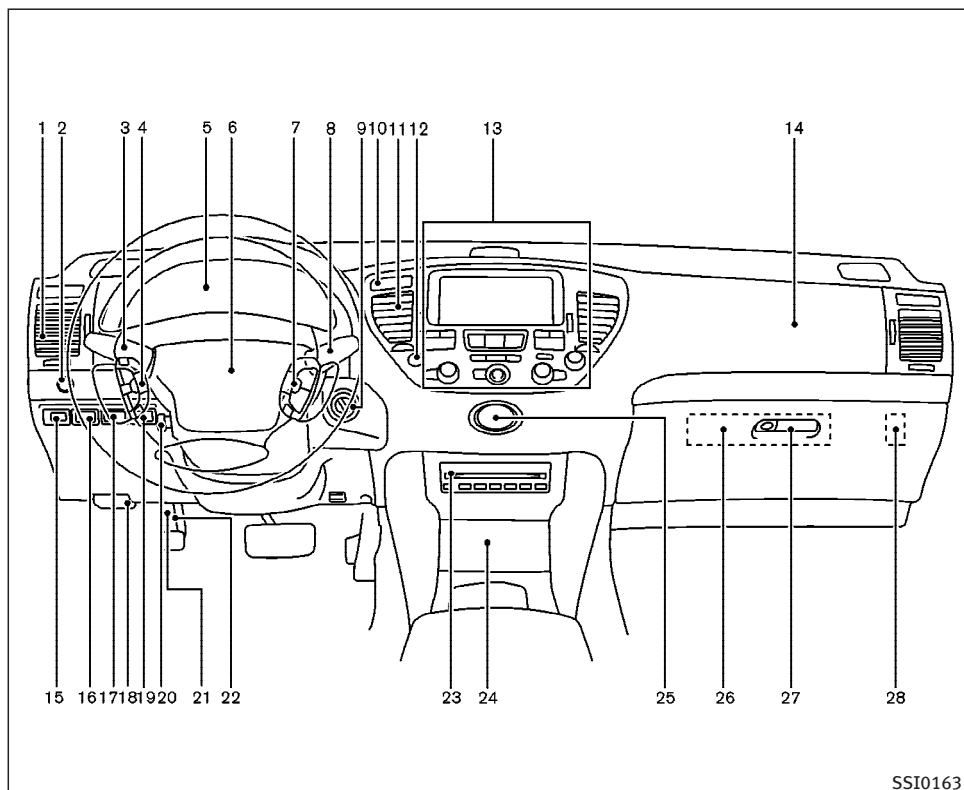
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INSTRUMENT PANEL



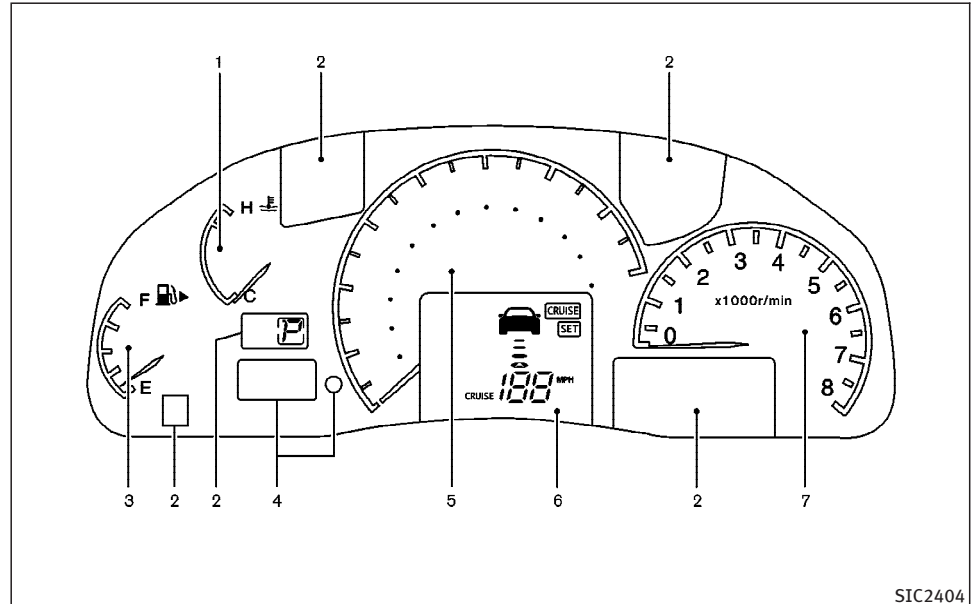
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METERS AND GAUGES

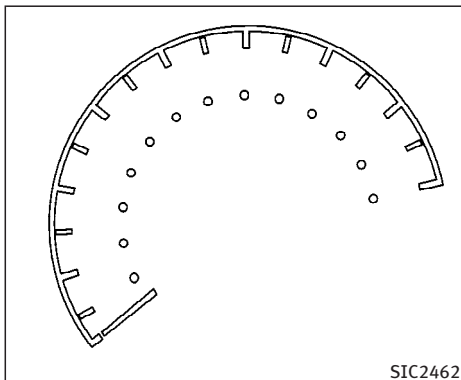
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*: Refer to the separate Navigation System Owner's Manual. (if so equipped)



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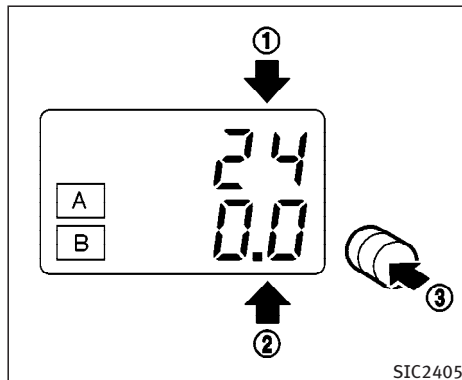
- | | |
|-------------------------------------|--|
| 1. Engine coolant temperature gauge | 5. Speedometer |
| 2. Warning/indicator lights | 6. Cruise control system/Intelligent cruise control system display |
| 3. Fuel gauge | 7. Tachometer |
| 4. Odometer/twin trip odometer | |



SPEEDOMETER AND ODOMETER

Speedometer

The speedometer indicates vehicle speed.



Odometer

The odometer ①/twin trip odometer ② are displayed when the ignition key is in the ON position.

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

Twin trip odometer

The twin trip odometer records the distance of individual trips.

Changing the display:

Pushing the reset knob ③ changes the dis-

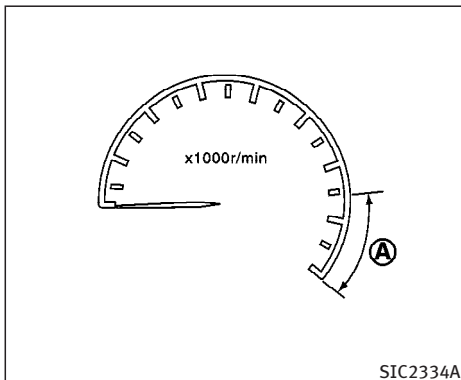
play as follows:

TRIP A → TRIP B → TRIP A

Resetting the trip odometer:

Pushing the reset knob for more than 1 second to reset the trip odometer to zero.

Elapsed time, driving distance and average speed information is also available, refer to “trip computer information” in the “monitor, climate, audio and voice-activated control systems” section later in this manual.



TACHOMETER

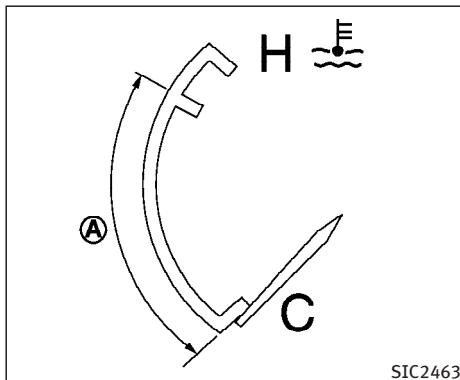
The tachometer indicates engine speed in revolutions per minute (rpm).

Do not rev the engine into the red zone (A).



CAUTION

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



ENGINE COOLANT TEMPERATURE GAUGE

The gauge indicates the engine coolant temperature.

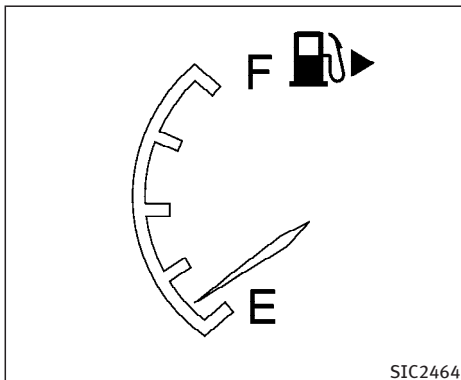
The engine coolant temperature is within the normal range (A) when the gauge needle points within the zone shown in the illustration.

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



CAUTION

If the gauge indicates engine coolant temperature near the hot (H) end of the normal range, reduce vehicle speed to decrease temperature. If the gauge is over the normal range (A), stop the vehicle as soon as safely possible. 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 hill.

The gauge needle returns to E (Empty) after the ignition key is turned to OFF.

Refill the fuel tank before the gauge registers Empty.

The low fuel warning light comes on when the fuel tank is getting low. Refuel as soon

as it is convenient, preferably before the gauge reaches “E”. There will be a small reserve of fuel in the tank when the fuel gauge needle reaches “E”.

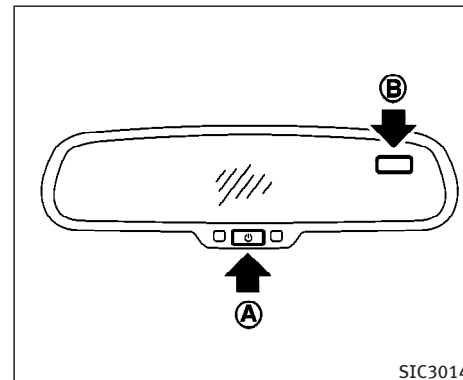
The  indicates that the fuel-filler door is located on the passenger’s side of the vehicle.




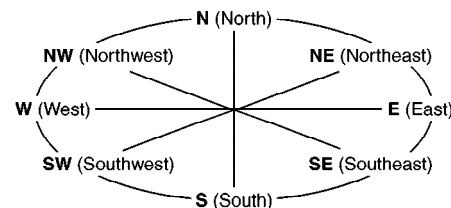
CAUTION


- If the vehicle runs out of fuel, the SERVICE ENGINE SOON malfunction indicator lamp (MIL) may come on. Refuel as soon as possible. After a few driving trips, the SERVICE ENGINE SOON lamp should turn off. If the lamp remains on after a few driving trips, have the vehicle inspected by an INFINITI dealer.
- For additional information, see “Malfunction indicator lamp (MIL)” later in this section.

COMPASS DISPLAY



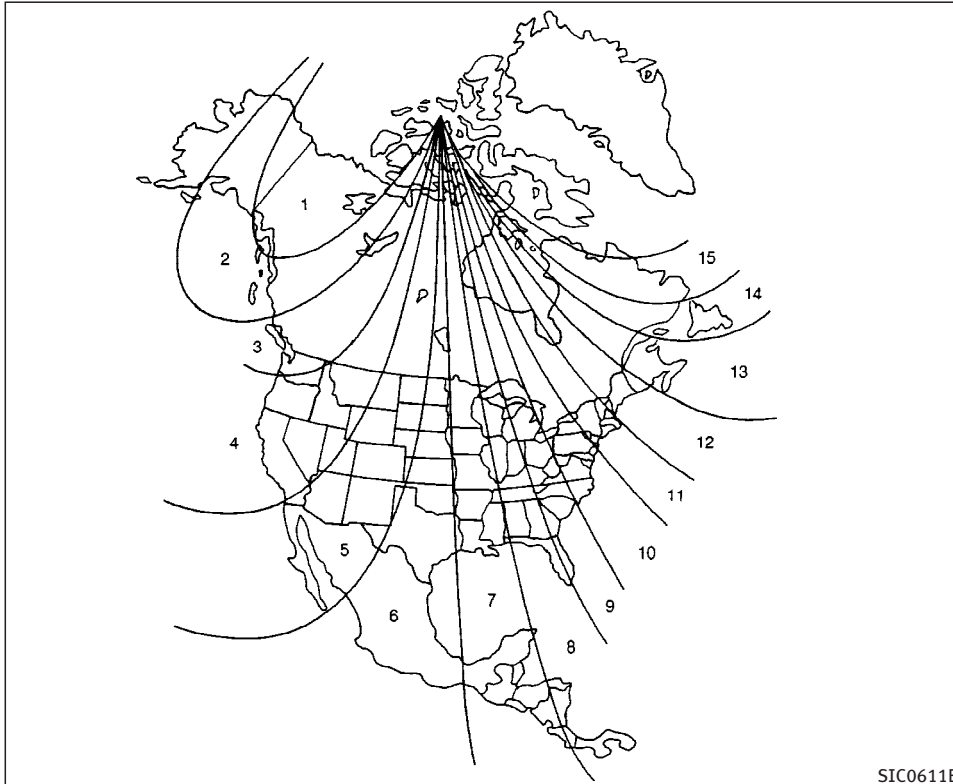
When the  switch (A) is pushed, the compass display (B) will indicate the direction of the vehicle’s heading.



If the display reads “C” or the  switch is pushed for 9 seconds, calibrate the

compass by driving the vehicle in 3 complete circles at less than 5 MPH (8 km/h). You can also calibrate the compass by driving your vehicle on your everyday route. The compass will be calibrated once it has tracked 3 complete circles.


To turn off the compass, push **A** again.



Zone map

Zone variation change procedure

The difference between magnetic north and geographical north is known as variance. In some areas, this difference can sometimes be great enough to cause false compass readings. Follow these instructions to set the variance for your particular location if this happens:

1. Push the  switch for 6 seconds. The current zone number will appear in the display.
2. Find your current location and variance number on the zone map.
3. Push the COMP switch until the new zone number appears in the display. After you select new zone number, the display will show a compass direction within a few seconds.
 - If the compass deviates from the correct indication soon after repeated adjustment, have the compass checked at an INFINITI dealer.
 - The compass may not indicate the correct compass point in tunnels or while driving up or down a steep hill. (The compass returns to the correct compass point when the vehicle moves





























to an area where the geomagnetism is stabilized.)



CAUTION





- Do not install a ski rack, antenna, etc., which are attached to the vehicle by means of a magnet. They affect the operation of the compass.
- When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as it may cause the liquid cleaner to enter the mirror housing.

WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS





 ABS	or	 (ABS)	Anti-lock brake system (ABS) warning light	 RAS	Rear Active Steer (RAS) warning light (if so equipped)	 SET	Intelligent cruise control system set indicator light
 AT CHECK			Automatic transmission check warning light		Seat belt warning light		High beam indicator light (Blue)
 BRAKE	or	 (ⓘ)	Brake warning light		Supplemental air bag warning light		Lane Departure Warning (LDW) system indicator light (Orange) (if so equipped)
 +			Charge warning light	 M P	Automatic transmission position indicator light		Malfunction indicator lamp (MIL)
			Door open warning light	 CRUISE	Cruise main switch indicator light (Green)	 SLIP	Slip indicator light
			Engine oil pressure warning light	 SET	Cruise control set indicator light		Sport mode indicator light (if so equipped)
			Low fuel warning light		Front passenger air bag status light		Turn signal/hazard indicator lights
			Low tire pressure warning light	 CRUISE	Intelligent cruise control (ICC) system MAIN switch indicator light (White; if so equipped)		Vehicle dynamic control (VDC) off indicator light
 CRUISE			Preview Function warning light (Orange; if so equipped)	 CRUISE	Intelligent cruise control system warning light (Orange; if so equipped)		

CHECKING BULBS

Apply the parking brake and turn the ignition key to ON without starting the engine. The following lights will come on:

 , **BRAKE** OR  (ⓘ) ,  ,  , **CRUISE** , **CRUISE** , **SET** , **RAS**

The following lights come on briefly and then go off:

 , **ABS** OR  (ABS) , **AT CHECK** , **SLIP** , **VDC OFF** ,  , 

If any light fails to come on, it may indicate a burned-out bulb or an open circuit in the electrical system. Have the system checked by your INFINITI dealer.

WARNING LIGHTS

 **ABS** or  (ABS) Anti-lock brake warning light

When the ignition switch is turned to the ON position, the anti-lock brake warning light will illuminate and then turn off. This indicates the anti-lock brake system (ABS) is operational.

If the light comes on while the engine is running, it may indicate the anti-lock brake system is not functioning properly. Have the system checked by an INFINITI dealer.

If a malfunction occurs in the system, the anti-lock function of the brake will cease operation but the ordinary brakes will continue to operate. See “Anti-lock brake system (ABS)” in the “5. Starting and driving” section for further details.

If the light comes on while you are driving, contact an INFINITI dealer for repair.



Automatic transmission check warning light

When the ignition switch is turned ON, 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 dealer check and repair the transmission.



or



Brake warning light

The brake warning light indicates the parking brake system operation, low brake fluid level of the brake system and Anti-lock Brake System (ABS) malfunction.

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:

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. Add brake fluid as necessary. 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 dealer.

Anti-lock Brake System warning light:

When the parking brake is released and the brake fluid level is sufficient, if both the brake warning light and the anti-lock brake warning light illuminate, it may indicate that the ABS is not functioning properly. Have the brake system checked by an INFINITI dealer. See “Anti-lock brake warning light” earlier in this section.



WARNING

- Your brake system may not be working properly 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 dealer.



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 generator belt. If the belt is loose, broken, missing or

if the light remains on, see your INFINITI dealer immediately.



CAUTION

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



Door open warning light

This light comes on when any of the doors are not closed securely while the ignition key is ON.



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 dealer or other authorized repair shop.

The 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.



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.



Low fuel warning light

This light comes on when the fuel in the tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E.

There will be a small reserve of fuel remaining in the tank when the fuel gauge needle reaches E.



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 turned 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. If you select the tire pressure information in the display, the FLAT TIRE 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 to turn the light OFF.

For additional information, see “Low tire pressure warning system” 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 turned ON. The light will

remain on after the 1 minute. Have the system checked by a NISSAN dealer.

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 turned ON, have the vehicle checked by an INFINITI dealer as soon as possible.
- If the light illuminates while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. 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 comes on while driving after adjust-

ing the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.

- If your vehicle is equipped with run-flat tires, you can continue driving after you have a flat tire. However, remember that vehicle handling stability is reduced, which could lead to an accident and personal injury. See “Wheels and tires” in the “8. Maintenance and do-it-yourself” section for more details and make sure to observe the cautions about run-flat tires. Failure to do so may result in a serious accident.
- 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. Contact your INFINITI dealer 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 4 wheels correctly.

CRUISE Preview Function warning light (Orange; if so equipped)

This light comes on if there is a malfunction in the Preview Function of the brake system. (ICC system equipped model)

RAS Rear Active Steer (RAS) 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 Rear Active Steer (RAS) portion of the steering system. Have

the system checked by an INFINITI dealer.

For further information about the RAS system, see “Rear Active Steer (RAS) system” in the “5. Starting and driving” section.

If a malfunction occurs in the system, the RAS function will cease but driving can be continued.

If the light comes on while you are driving, contact an INFINITI dealer for repair.



Seat belt warning light and chime

The light and chime remind you to fasten seat belts. The light blinks for 7 seconds whenever the ignition key is turned to ON, 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 (if so equipped) will illuminate if the seat belt is not fastened when the front passenger's seat is occupied. For 5 seconds after the ignition switch is pushed to the ON position, the system does not activate the warning light for the front passenger.

2-14 Instruments and controls

If the light blinks or illuminates even if the driver's and front passenger's seat belts are fastened, it may indicate that the pre-crash seat belt system has a malfunction. Have your INFINITI dealer check and repair the system.

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 turning the ignition key 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 pre-tensioner seat belt needs servicing and your vehicle must be taken to your nearest INFINITI dealer.

- The supplemental air bag warning light remains on after approximately 7 seconds.
- The supplemental air bag warning light flashes intermittently.
- The supplemental air bag warning light does not 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 dealer as soon as possible.

INDICATOR LIGHTS



Automatic transmission position indicator light

When the ignition key is turned to the ON position, the indicator shows the automatic selector shift position. See “Driving with automatic transmission”, in the “5. Starting and driving” section.



Cruise main switch indicator light

The light comes on when the cruise control main switch is pushed. The light goes out when the main switch is pushed again. While the cruise main switch indicator light comes on, the cruise control system is operational.




Cruise control set indicator light

The light comes on while the vehicle speed is controlled by the cruise control system. If the light blinks while the engine is running, it may indicate the cruise control system is not functioning properly. Have the system checked by your INFINITI dealer.



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” in the “1. Safety — Seats, seat belts and supplemental restraint system” section of this manual.



Intelligent cruise control system MAIN switch indicator light (White; if so equipped)

The light comes on when the Intelligent Cruise Control MAIN switch is pushed. The light goes out when the MAIN switch is pushed again. While the MAIN switch indicator light is on, the system is operational.



Intelligent cruise control system warning light (Orange; if so equipped)

The light comes on if there is a malfunction in the Intelligent Cruise Control system.



Intelligent cruise control system set indicator light (White; if so equipped)

The light comes on while the vehicle speed is controlled by the intelligent cruise control system. If the light blinks while the engine is running, it may indicate the Intelligent cruise control system is not functioning properly. Have the system checked by your INFINITI dealer.



High beam indicator light (Blue)

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



Lane Departure Warning (LDW) system indicator light (if so equipped)

The light will blink and a warning tone will sound if the vehicle is traveling close to either the left or the right of the traveling lane with detectable lane markers.

The light also illuminates if there is a malfunction in the Lane Departure Warning (LDW) system.


See “Lane departure warning system” in the “5. Starting and driving” section.



Malfunction indicator lamp (MIL)

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

The malfunction indicator lamp 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  lamp should turn off if no other potential emission control system malfunction exists.

If this indicator lamp comes on steady 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” in the “9. Technical and consumer information” section of this manual.

2-16 Instruments and controls

Operation

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

- Malfunction indicator lamp on steady — An emission control system malfunction has been detected. Check the fuel filler cap. If the fuel filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The  lamp should turn off after a few driving trips. If the  lamp does not turn off after a few driving trips, have the vehicle inspected by an INFINITI dealer. You do not need to have your vehicle towed to the dealer.

- Malfunction indicator lamp 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.

The malfunction indicator lamp may stop blinking and come on steady.

Have the vehicle inspected by an INFINITI dealer. You do not need to have your vehicle towed to the dealer.



CAUTION

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

SLIP Slip indicator light

The light will blink when the vehicle dynamic control (VDC) system is operating, thus alerting the driver to the fact that the road surface is slippery and the vehicle is nearing its traction limits.

This light also comes on when the ignition switch is turned to the ON position. The light will turn off if the VDC is operational.



Sport mode indicator light (if so equipped)

This light comes on when the active damper suspension mode select switch is set to the SPORT position.



Turn signal/hazard indicator lights

The light flashes when the turn signal switch lever or hazard switch is turned on.



Vehicle dynamic control off indicator light

The light comes on when the vehicle dynamic control (VDC) off switch is pushed to OFF. This indicates that the VDC system is not operating.

This light also comes on when the ignition switch is turned to the ON position. The light will turn off if the VDC system is operational.

When the VDC off indicator light and slip indicator light come on with the VDC system turned on, this light alerts the driver to the fact that the VDC system fail-safe mode is operating and the system may not be functioning properly. Have the system checked by an INFINITI dealer. If a malfunction oc-



curs in the system, the VDC 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.

AUDIBLE REMINDERS

Key reminder chime

A chime will sound if the driver side door is opened while the key is left in the ignition switch (ignition switch is turned to the ACC, OFF or LOCK position). Remove the key and take it 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  or  position (ignition switch is turned to the ACC, OFF or LOCK position).

Turn the light switch off when you leave the vehicle.

Brake pad wear warning

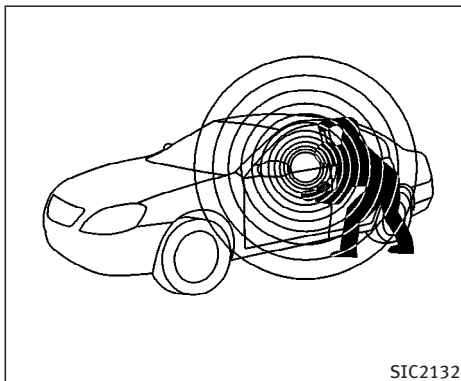
The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion whether or not the brake pedal is depressed.

Have the brakes checked as soon as possible if the warning sound is heard.

Lane Departure Warning (LDW) chime (if so equipped)

If the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers, the LDW system will blink the LDW indicator light and sound a chime.

SECURITY SYSTEMS



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

- Vehicle security
- INFINITI Vehicle Immobilizer System

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

VEHICLE SECURITY SYSTEM

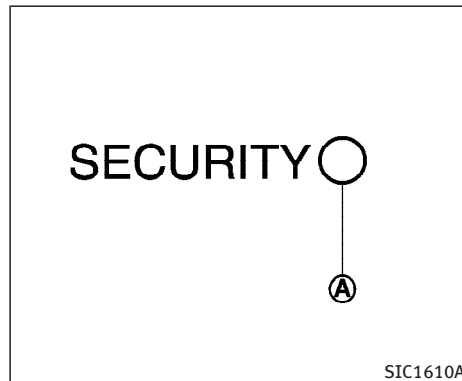
The vehicle security system provides visual and audio alarm signals if someone opens the doors, hood, or trunk lid when the system is armed. It is not, however, a motion detection type system that activates

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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 keys 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 dealer 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. Remove the key from the ignition switch.
3. Close all doors, hood and trunk. Lock all doors. The doors can be locked with the electronic ignition key, power door lock switch or with the key.

4. Confirm that the security indicator light  comes on. The security indicator light glows for about 30 seconds and then blinks. The system is now armed. If, during this 30 second time period, the door or trunk lid is unlocked with the electronic ignition key or the key, or the ignition key is turned to the ACC or ON position, the system will not be armed.

Even when the driver and/or passengers are in the vehicle, the system will be armed with all doors, hood, and trunk lid locked and ignition key off. When turning the ignition to ACC, the system will be disarmed.

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 can be shut off by unlocking a door with the UNLOCK button on the electronic ignition key or the emergency key.

The alarm is activated by:

- Unlocking the door or opening the trunk lid without using the button on the electronic ignition key or the 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

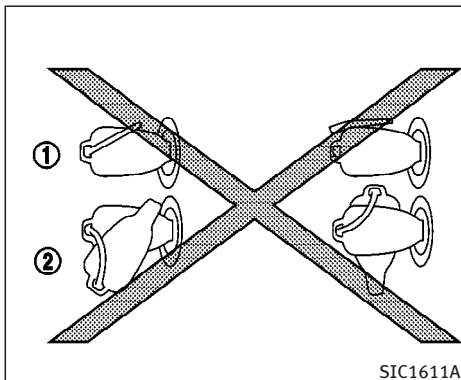
The alarm will stop by unlocking a door by pushing the unlock button on the electronic ignition key or with the key. The alarm will not stop if the ignition switch is turned to ACC or ON.

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

INFINITI VEHICLE IMMOBILIZER SYSTEM

The INFINITI Vehicle Immobilizer System will not allow the engine to start without the use of the registered INFINITI electronic ignition key.

The engine may not start with the registered electronic ignition key under the following conditions:



- ① If metal contacts the electronic ignition key.
- ② If a device equipped with a transponder contacts the electronic ignition key.

If the engine fails to start using the registered electronic ignition key (for example, when interference is caused by another electronic ignition key, an automated toll road device or automated payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.

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2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 5 seconds.
3. Repeat step 1 and 2.
4. Restart the engine while holding the device (which may have caused the interference) separate from the registered electronic ignition key.

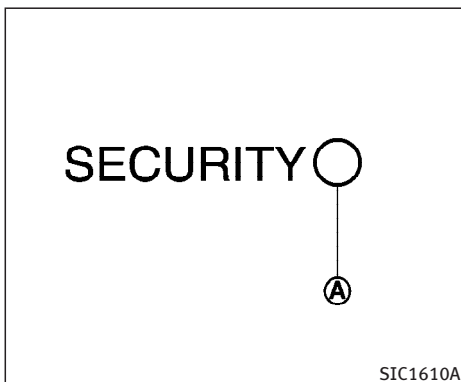
If the no start condition re-occurs, INFINITI recommends placing the registered electronic ignition key on a separate key ring to avoid interference from other devices.

Statement related to section 15 of FCC rules for INFINITI Vehicle Immobilizer System (CONT ASSY - IMMOBILIZER, ANT ASSY - IMMOBILIZER)

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.

CHANGES OR MODIFICATIONS NOT EXPRESSLY APPROVED BY THE PARTY RESPONSIBLE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



Security indicator light

This light (A) blinks after 5 seconds have passed since the ignition switch was turned to OFF and the ignition key was removed. This function indicates the security systems equipped on the vehicle are operational.

If a non-registered key is in the ignition switch, the indicator light comes on.

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 your INFINITI dealer for INFINITI Vehicle Immobilizer System service as soon as possible. Please bring all electronic ignition keys that you have when visiting your INFINITI dealer for service.

WINDSHIELD WIPER AND WASHER SWITCH



WARNING

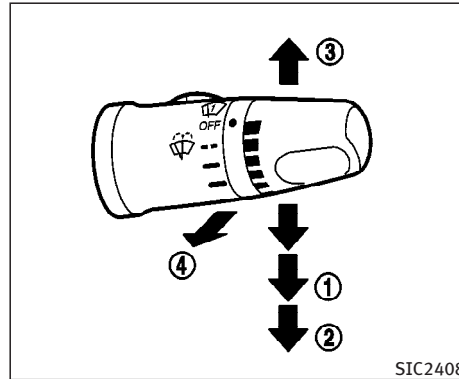
In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm windshield with the defroster before you wash the windshield.



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 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.
- Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid

into the window washer reservoir. Do not use the window washer reservoir to mix the washer fluid concentrate and water.



Pull the lever toward you ④ to operate the washer. The wiper will also operate several times.

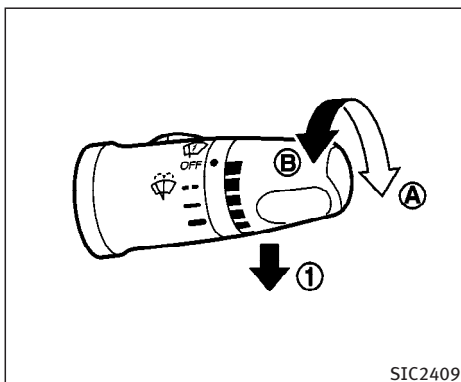
WIPER AND WASHER SWITCH

The windshield wiper and washer operates when the ignition key is in the ON position.

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

- ① Low — continuous low speed operation
- ② High — continuous high speed operation

Push the lever up ③ to have one sweep operation of the wiper.



RAIN-SENSING AUTO WIPER SYSTEM

The rain-sensing auto wiper system allows the wipers to be set so they turn on and off automatically.

To set the rain-sensing auto wiper system:

1. Push the lever down to the INT position ①.
2. The wiper will sweep once while the ignition switch is in the ON position.

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.

The rain-sensing auto wiper system can automatically turn on the wiper 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 and the vehicle speed sensor. The rain-sensing auto wipers will be turned off when the rain sensor does not detect rain.

The rain sensor sensitivity level can be adjusted by turning the switch toward the front ① (High) or toward the rear ② (Low).

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

If the rain-sensing auto wiper system malfunctions, the rain-sensing auto wiper system will not operate, but the speed sensitive wiper system will operate.

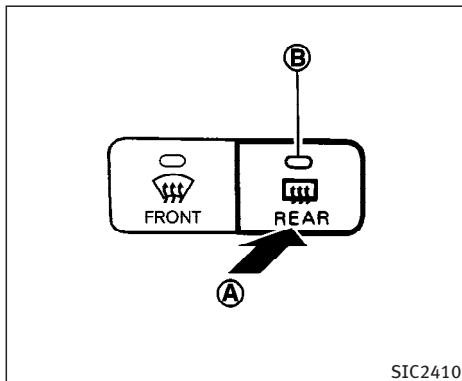
The rain-sensing auto wiper system can be cancelled. For more information, see “Vehicle information” in the “4. Monitor, climate, audio and voice-activated control systems” section.



CAUTION

- Do not touch the rain sensor as it might operate unexpectedly and injure you.
- The rain-sensing auto wipers may not operate if rain does not hit the rain sensor even if it is raining.
- The rain-sensing auto wipers may not operate when the windshield surface temperature becomes over 158°F (70°C).
- The rain-sensing auto wipers may operate unexpectedly or may not operate when dirt, fingerprints, oil film or stickers are stuck on or around the sensor.

REAR WINDOW AND OUTSIDE MIRROR DEFROSTER SWITCH



To defog/defrost the rear window glass and outside mirrors:

Start the engine and push the switch **(A)** on. The indicator light **(B)** will come on. Push the switch again to turn the defroster off.



CAUTION

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



WARNING



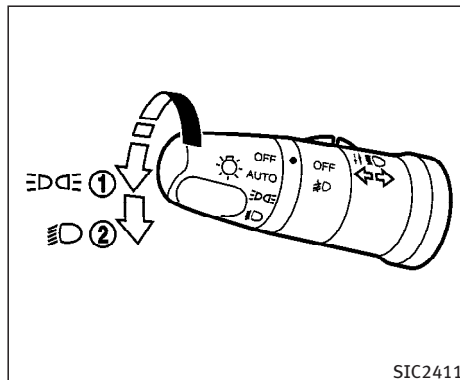
HIGH VOLTAGE

XENON HEADLIGHTS

- 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 dealer.
- 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 dealer 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 dealer.



HEADLIGHT SWITCH

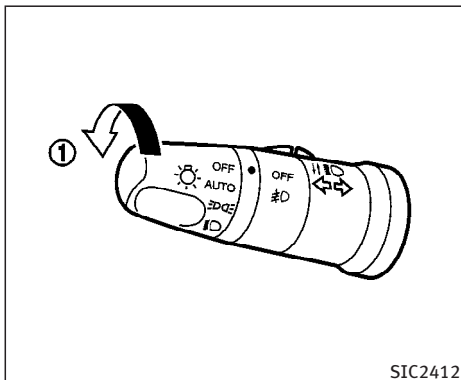
Lighting

- ① Turn the switch to the  position:
The front park, side marker, tail, license plate and instrument lights will come on.
- ② Turn the switch to the  position:
Headlights will come on and all the other lights remain on.



CAUTION

Use the headlights with the engine running to avoid discharging the vehicle battery.





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 ①.
2. Turn the ignition key to ON.
3. The autolight system automatically turns the headlights on and off.

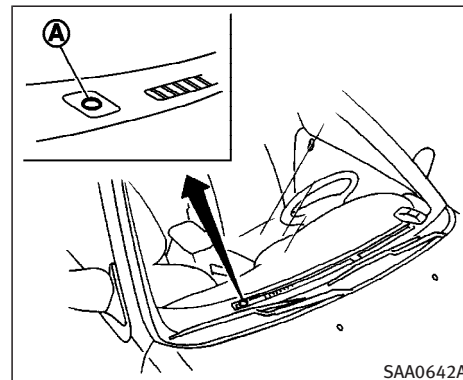
To turn the autolight system off, turn the switch to the OFF, , or  position.

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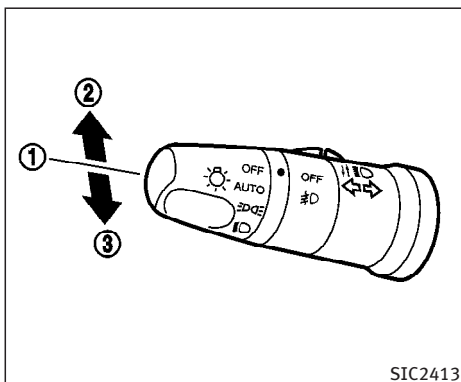
The autolight system can turn on the headlights automatically when it is dark, turn off the headlights when it is light, and keep the headlights on for up to 180 seconds after you turn the key to OFF and open any door then close all the doors.

Automatic headlights off delay


For automatic headlights off delay setting, see “Automatic headlights off delay” in the “4. Monitor, climate, audio and voice-activated control systems” section.







Be sure not to put anything on top of the photo sensor ① located on the top right-hand side 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

- When the headlight switch is in the  or  position while the ignition key is in the ON position, the lights will automatically turn off 45 seconds after the ignition switch has been turned to the OFF position. However, the lights will turn off if the driver's or front passenger's door is opened in this condition.
- When the headlight switch remains in the  or  position after the lights automatically turn off, the lights will turn on when the ignition switch is turned to the ON position from the OFF position.





CAUTION

- **Even though the battery saver feature automatically turns off the headlights after a period of time, you should turn the headlight switch to the OFF position when the engine is not running to avoid discharging the vehicle battery.**

- **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)

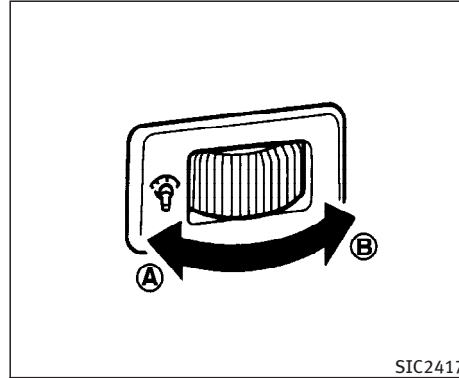
The daytime running lights automatically illuminate at a reduced intensity when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the OFF position or in the  position. Turn the headlight switch to the  position for full illumination 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 turned off.



WARNING

When the daytime running light system is active, tail lights on your vehicle are not on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.

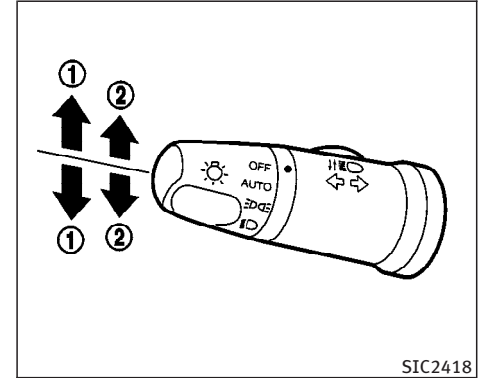


Instrument brightness control

The instrument brightness control operates when the light switch is in the AUTO (when lighting), EDGE or ED position with the ignition switch in the ON position.

Turn the control to **A** direction (darken) or **B** direction (brighten) to adjust the brightness of instrument panel lights.

When the control is turned in the maximum brightening direction, the light intensity will be at maximum. When the control is turned in the maximum darkening direction, the light will be turned off.



TURN SIGNAL SWITCH

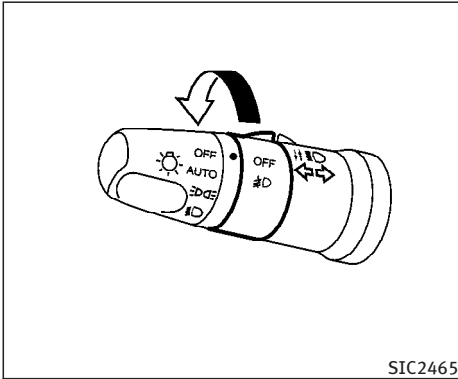
① Turn signal

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.

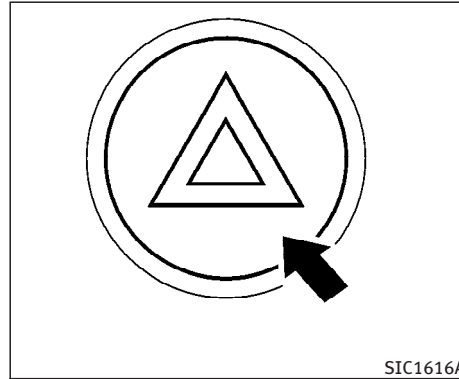
HAZARD WARNING FLASHER SWITCH



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 (except for the daytime running light).



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

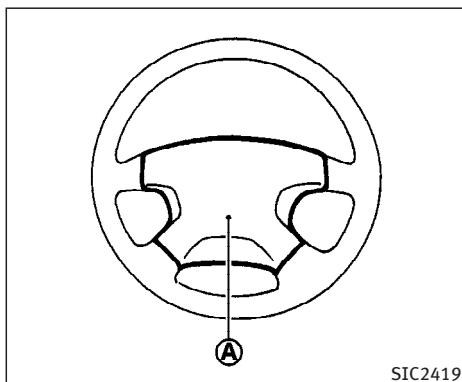
drive so slowly that your vehicle might become a hazard to other traffic.

- Turn signals do not work when the hazard warning flasher lights are on.

The flasher can be actuated with the ignition switch either off or on.

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

HORN



To sound the horn, push the center pad area **A** of the steering wheel.

WARNING

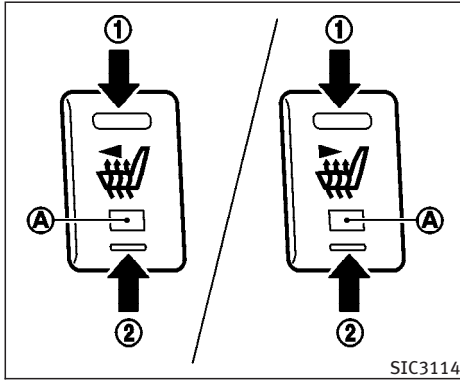
Do not disassemble the horn. Doing so could affect proper operation of the supplemental front air bag system. Tampering with the supplemental front air bag system may result in serious personal injury.

HEATED SEATS

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 your INFINITI dealer.



FRONT HEATED SEAT (if so equipped)

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

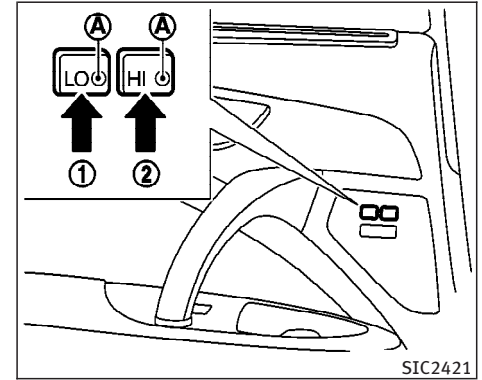
1. Start the engine.
2. Select heat range.
 - ① For high heat, push the  (High) side of the switch.
 - ② For low heat, push the  (Low) side of the switch.

The indicator light in the switch **A** will illuminate when low or high is selected.

3. To turn off the heater, return the switch to the level position. Make sure the indicator light goes off.

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

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



REAR HEATED SEAT (if so equipped)

The rear outboard seats are warmed by built-in heaters. The switches, located on the inside of the rear door, can be operated independently of each other.

1. Start the engine.
2. Select heat range.
 - ① For low heat, push the LO (Low) switch.
 - ② For high heat, push the HI (High) switch.

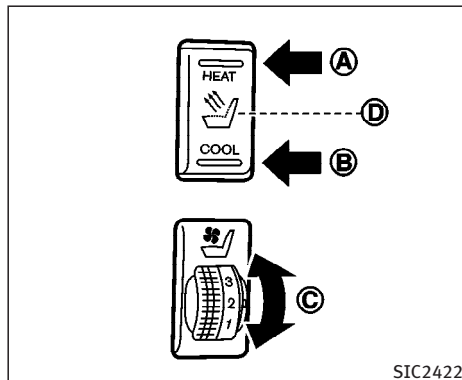
The indicator light in the switch (A) will illuminate when low or high is selected.

3. To turn off the heater, push the illuminated switch once again.

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

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

CLIMATE CONTROLLED SEAT (if so equipped)



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

1. Start the engine.
2. Select HEAT (A) or COOL (B) by pushing either side of the switch.

The climate controlled seat controls the amount of the air and its temperature according to the number on the dial; higher is more.

3. Adjust the desired amount of the air using the control dial (C).
HEAT position: 1 (Low) ~ 4 (High)
COOL position: 1 (Low) ~ 4 (High)
When cool position 1 is selected, cooling does not operate, air at room temperature will be provided.

The climate controlled seat blower remains on low speed for approximately 60 seconds after turning the switch on or selecting the desired temperature.

4. When the vehicle's interior is warmed or cooled, and/or before you leave the vehicle, be sure to turn the switch to the OFF position (center) (D).
To check the air filter for the climate controlled seat, contact your INFINITI dealer.

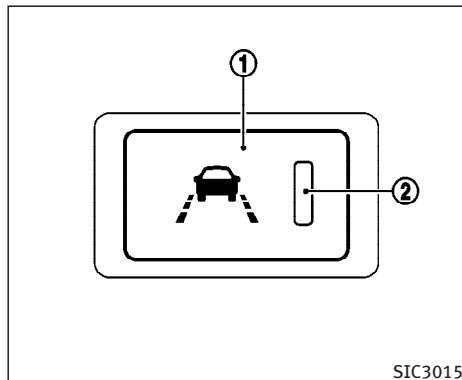


CAUTION

- 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 abnormalities are found or the climate controlled seat does not operate, turn the switch off and have the system checked by your INFINITI dealer.

LANE DEPARTURE WARNING (LDW) SWITCH (if so equipped)



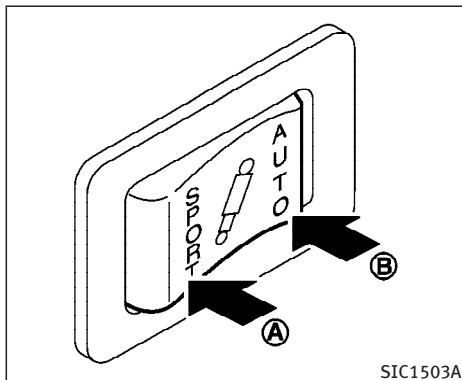
The Lane Departure Warning (LDW) system will blink an indicator light on the instrument panel and sound a chime to alert the driver if the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers.

The system comes on automatically in its automatic mode when the ignition switch is pushed to the ON position. The LDW system ON indicator ② will illuminate.

To cancel the LDW system, push the LDW switch ① to turn off the system. The LDW system ON indicator ② will go off.

Push the LDW switch again or restart the engine to turn the system on. Modes can be changed to automatic mode or manual mode by pushing and holding the LDW switch for more than 4 seconds while the LDW system ON indicator is off. See “Lane departure warning (LDW) system” in the “5. Starting and driving” section.

ACTIVE DAMPER SUSPENSION MODE SELECT SWITCH (if so equipped)



The active damper suspension controls damping force and helps minimize the movement of the vehicle body. It helps stable driving when the vehicle moves up and down on large rolling roads or when the vehicle body leans during cornering with a high centrifugal force.

The damping force of the shock absorbers can be adjusted to the level you desire. Set the switch to the position you desire while the ignition switch is ON.

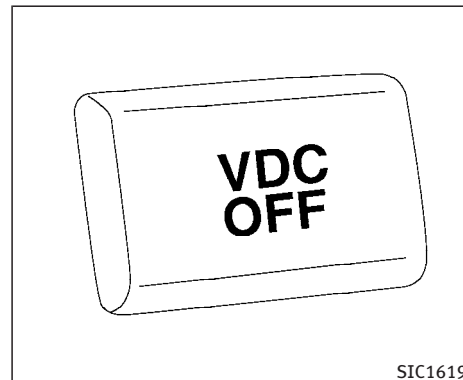
SPORT MODE (A)

Set the switch to the SPORT position when you desire a firm feeling all the time.

AUTO MODE (B)

Set the switch to the AUTO position for normal driving. The damping force will automatically adjust according to the road surface and driving conditions.

VEHICLE DYNAMIC CONTROL (VDC) OFF SWITCH



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

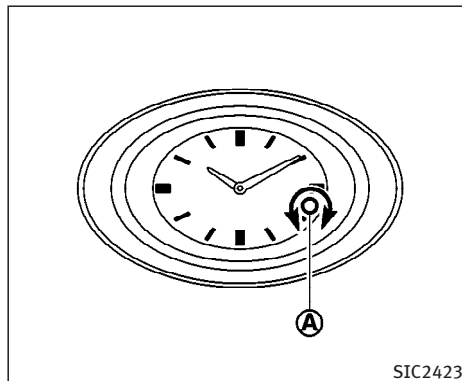
If the vehicle is stuck in mud or snow, the VDC system reduces the engine output to reduce wheel spin. The engine speed will be reduced even if the accelerator is depressed to the floor. If maximum engine power is needed to free a stuck vehicle, turn the VDC system off.

To turn off the Vehicle Dynamic Control System (VDC), push the VDC OFF switch (located on the lower left side of the in-

strument panel). The **VDC OFF** indicator light will come on.

Push the VDC OFF switch again or restart the engine to turn ON the system. See “Vehicle dynamic control system (VDC)” in the “5. Starting and driving” section.

CLOCK

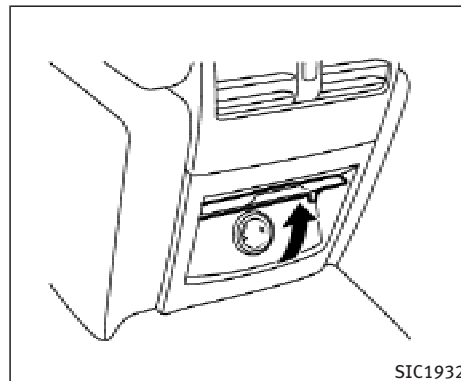


If the power supply is disconnected, the clock will not indicate the correct time. Re-adjust the time.

ADJUSTING THE TIME

To adjust the time, turn and hold the adjusting knob **A**.

POWER OUTLET



Power outlet is located on the back of the center console.

To open, pull up the power outlet lid as illustrated.



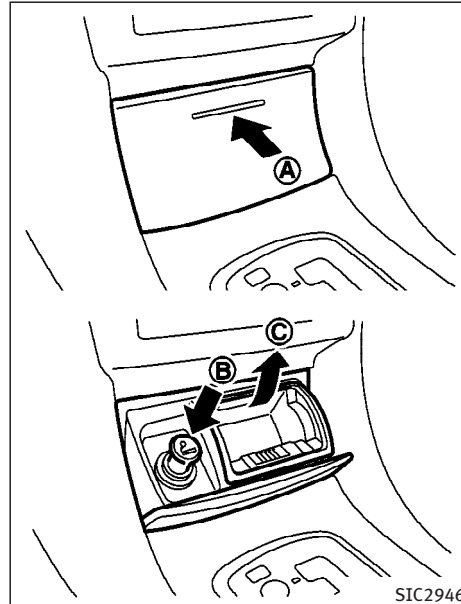
CAUTION

- 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

CIGARETTE LIGHTERS AND ASHTRAYS

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 open.
- 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 upper side of the lid (A) as illustrated.

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

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

To empty the ashtray, pull up on the horizontal bar and remove the tray (C).



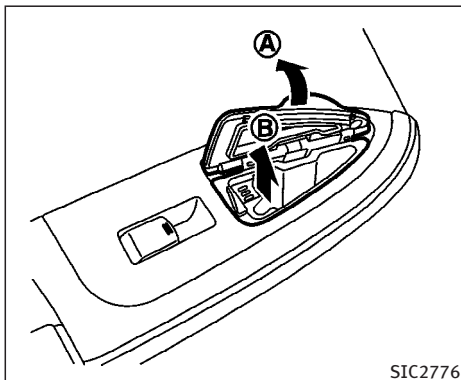
WARNING

The cigarette lighter should not be used while driving so full attention may be given to vehicle operation.



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.



REAR

To open the ashtray lid, pull up the lid (A) as illustrated.

To empty the ashtray, pull up on the horizontal bar and remove the tray (B).

STORAGE

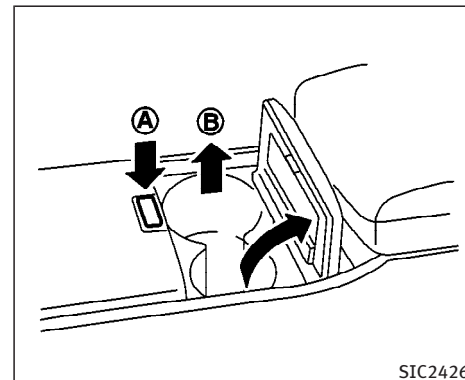
CUP HOLDERS

WARNING

The cup holder should not be used while driving so full attention may be given to vehicle operation.

CAUTION

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



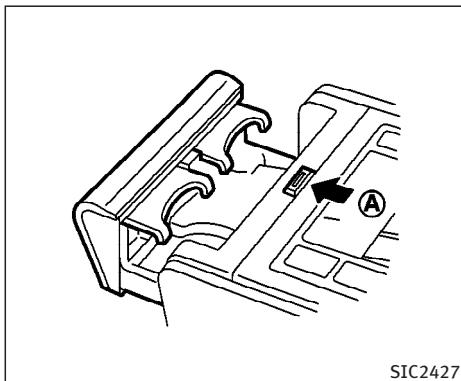
Front

Front:

Push the button (A) to open the cup holder lid.

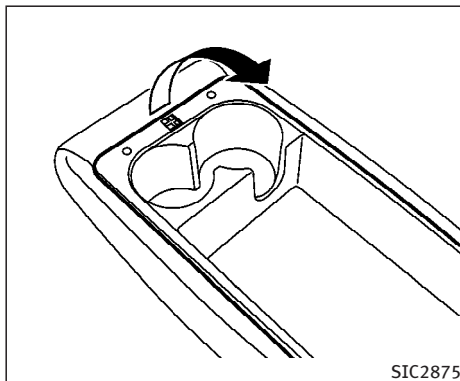
Use the cup holder properly and according to the size of the cups.

The front cup holder inner case can be removed as illustrated (B) to hold bigger bottles or for cleaning.



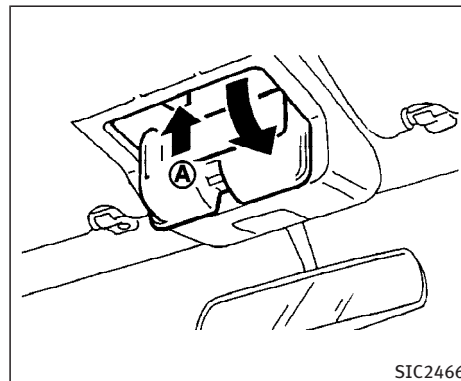
Rear — Type A

SIC2427



Rear — Type B

SIC2875



SIC2466

Rear:

Push the button (A) (Type A) or open the lid of the rear center armrest (Type B) to use the cup holder.

SUNGLASSES HOLDER

The sunglasses holder can be opened by pushing the button (A).



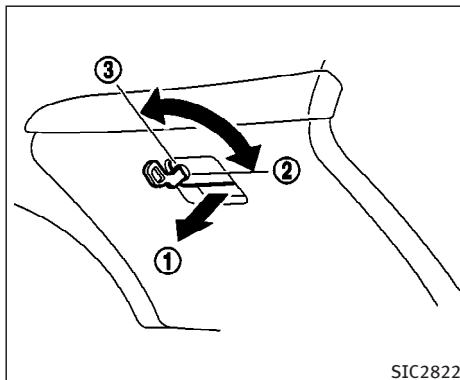
WARNING

- The sunglasses holder should not be used while driving so full attention may be given to vehicle operation.
- Keep the sunglasses holder closed while driving to prevent an accident.



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.



GLOVE BOX

To open the glove box, pull the handle ①.

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

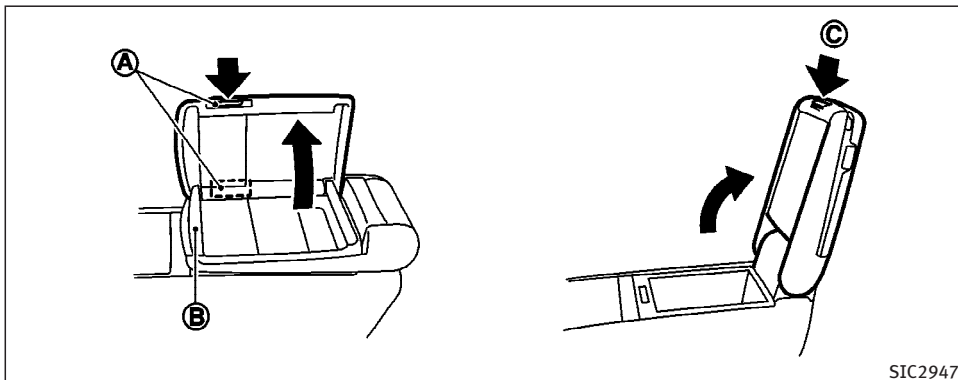
To lock ②/unlock ③ the glove box, use the emergency key or wallet key.



WARNING

Keep glove box lid closed while driving to

help prevent injury in an accident or a sudden stop.



SIC2947

CONSOLE BOX

Upper part:

- The lid can be opened either from the driver or front passenger side.
- Push the button on the side of the lid (A) to open the upper part.
- The front part (B) is designed to be used as a coin case.

To open the lid, the right or the left side must be closed securely.

Bottom case:

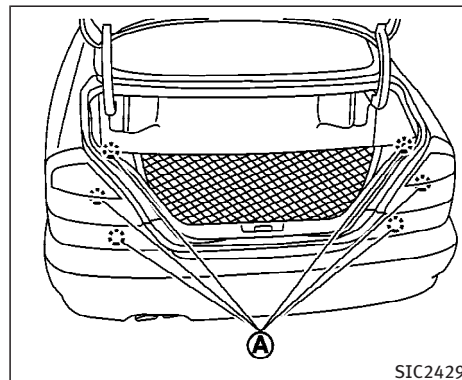
Push the button on the front of the lid (C) to open the lids.

To close the lid, manually push the lid down.



WARNING

The center console box should not be used while driving so full attention may be given to vehicle operation.



SIC2429

CARGO NET (if so equipped)

The cargo net helps keep packages in the cargo area from moving around while your vehicle is driven.

To install the cargo net, attach the hooks to the retainers (A).



CAUTION

Avoid keeping heavy objects in the net.

WINDOWS

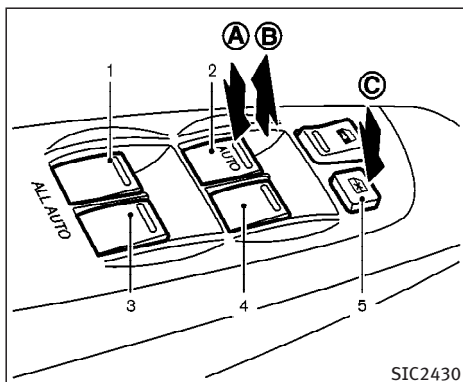
POWER WINDOWS



WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle while it is in motion and before closing the windows. Use the window lock switch to prevent unexpected use of the power windows.**
- **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 key is in the ON position or for about 45 seconds after the ignition key is turned to the ACC or 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 cancelled.



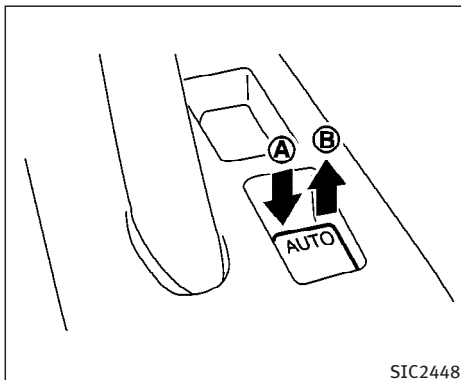
Main power window switch (driver's side)

1. Rear left passenger side window
2. Driver side window
3. Rear right passenger side window
4. Front 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.

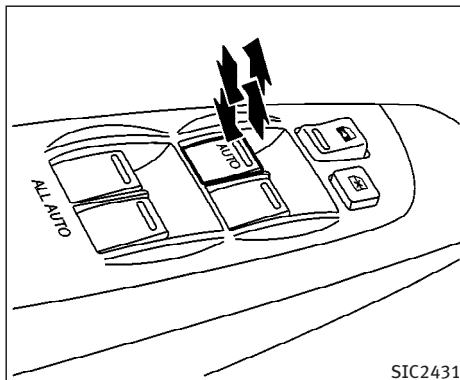
Locking passengers' windows

When the lock button **C** 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 (A) or pull up (B) 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

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 key is in the ON position or for 45 seconds after the ignition key is turned 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 cancelled.

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.



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.

SUNROOF



WARNING

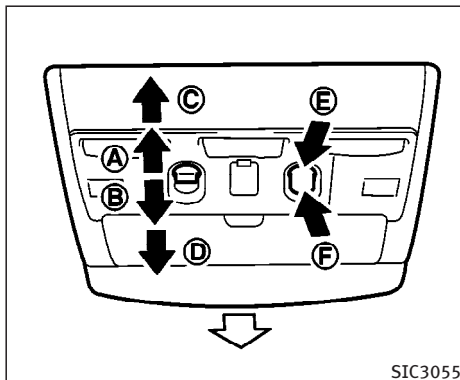
- In an accident you could be thrown from the vehicle through an open sunroof. Always use seat belts and child restraints.
- Do not allow anyone to stand up or extend any portion of their body out of the sunroof opening while the vehicle is in motion or while the sunroof is closing.



CAUTION

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

The sunroof operates when the ignition key is in the ON position or for about 45 seconds after the ignition key is turned to the ACC or OFF position. If the driver's, or passenger's door is opened during this period of about 45 seconds, power to the sunroof is canceled.



SIC3055

SLIDING THE SUNROOF

To open the roof, push and hold the switch to the open side (A).

To close the roof, push and hold the switch to the closed side (B).

Automatic operation

To fully open or close the sunroof, completely push the switch to the open side (C) or close side (D); it need not be held. The sunroof will automatically open or close all the way. To stop the sunroof, just push the switch toward the close or open side, or

push the up (E) or down (F) side of the tilt switch.

AUTO REVERSE FUNCTION (WHEN CLOSING THE SUNROOF)

If the control unit detects something caught in the sunroof as it is closing, the sunroof will immediately open backward.

The auto reverse function can be activated when the sunroof is closed by automatic operation when the ignition key is in the ON position or for 45 seconds after the ignition key is turned to the ACC or 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 sunroof occurs.

TILTING THE SUNROOF

To tilt up, first close the sunroof, then push and hold the up side of the tilt switch (E). To tilt down the sunroof, push and hold the down side (F).

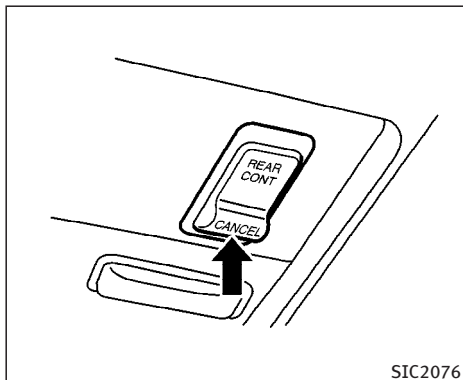
SUN SHADE

Open/close the sun shade by sliding it backward/forward.

The shade will open automatically when the sunroof is opening. However, it must be closed manually.

IF THE SUNROOF DOES NOT CLOSE

Have your INFINITI dealer check and repair the sunroof.



REAR CONTROL CANCEL SWITCH (if so equipped)

The rear control cancel switch is located on the overhead console.

Pushing the rear control cancel switch to the cancel side will inactivate the following switches in the rear center armrest.

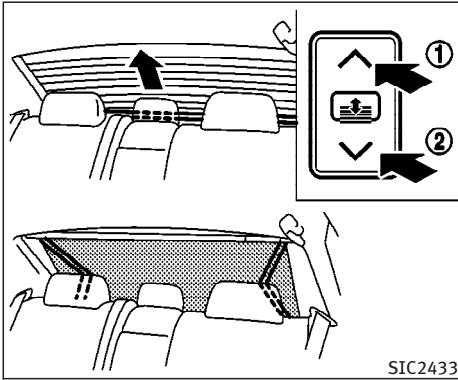
- Air conditioner
- Audio

REAR SUN SHADE (if so equipped)



CAUTION

- To avoid personal injury, keep your hands, fingers and head away from the sun shade arm, arm rail and screen inlet port.
- Do not allow children near the rear sun shade system. They could be injured.
- Do not place objects on or near the rear sun shade. This could cause improper operation or damage it.
- Do not pull or push the rear sun shade. This could cause improper operation or damage it.



The rear sun shade operates when the ignition key is in the ACC or ON position.

The rear sun shade switches are located on the front overhead console and the rear armrest.

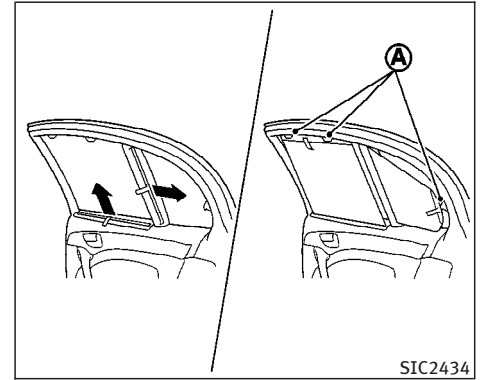
To raise the screen, push the upper side of the switch ①.

To lower the screen, push the lower side of the switch ②.

The switch need not be held.

CAUTION

- Do not place objects (such as newspapers, handkerchiefs, etc.) on the screen inlet port. Doing so may entangle these objects in the screen when it is extending or retracting, causing improper operation or damage to the screen.
- Do not push the sun shade arm with your hands, etc., as this may deform it. Improper operation or damage to the screen may result.
- Do not put any object into the screen inlet port as this may result in improper operation or damage the screen.
- Do not hang any object on the arm rail as this may result in improper operation or damage the screen.
- Do not forcefully pull the screen. Doing so may elongate the screen. Improper operation or damage to the screen may result.



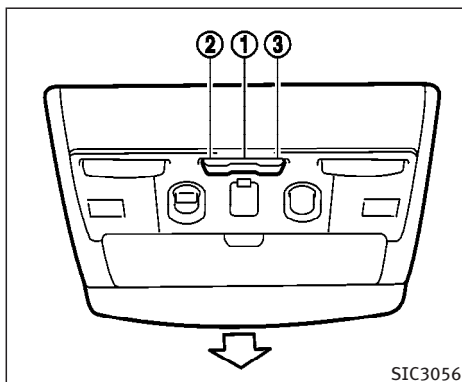
REAR DOOR WINDOW SUN SHADES (if so equipped)

The rear door window sun shades are built in the door sash.

To use the shade, pull it out and hang it on the hooks ①.

To fold the shade, release it from the hooks gently.

INTERIOR LIGHTS



ROOM LIGHT

The room light has a three-position switch.

While the switch is in the center • position ①, the front and rear personal lights will illuminate under the following conditions:

- driver's door is unlocked.
 - remain on for a maximum of 30 seconds.
- driver's door is opened.
 - remain on for a maximum of 30 seconds after driver's door is closed.

- ignition key is removed from key cylinder.
 - remain on for a maximum of 30 seconds.

The lights will go off when the ignition key is in the ACC position, or the driver's door is closed and locked.

The lights will also go off after 30 minutes while doors are open.

When some doors are opened, the door step light for each open door and some personal lights will come on, and the closed door's personal lights will darken. See "Personal lights" later in this section.

The amount of time that the light remains on can be adjusted. See "Vehicle information" in the "4. Monitor, climate, audio and voice-activated control systems" section.

When the switch is pushed to the "ON" position ②, the light will illuminate.

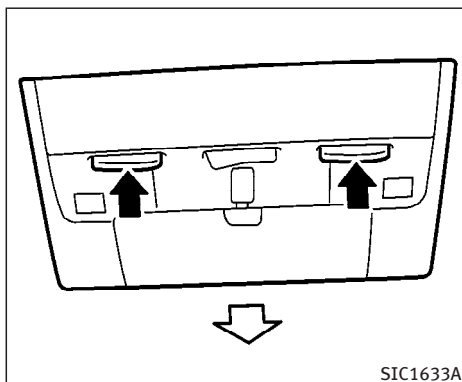
When the switch is pushed to the "OFF" position ③, the room light does not illuminate, regardless of any condition.



CAUTION

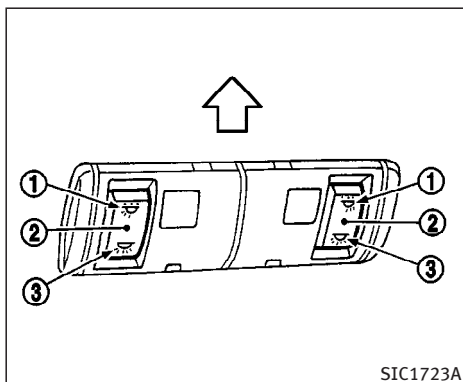
Do not use for extended periods of time with the engine stopped. This could result in a discharged battery.

PERSONAL LIGHTS



FRONT

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



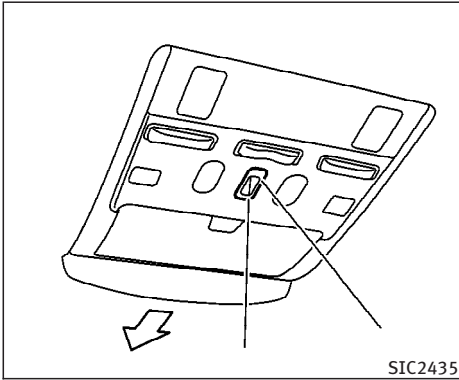
REAR

The lights will turn on/off depending on what side of the switch is pushed:



- ① The light stays on when pushed to this position.
- ② When the door is opened, both the right and left lights come on (opened door side illuminates brighter). They turn off when the door is closed. If the interior light switch is in OFF position, the personal light will not turn on when any of the doors are opened. See “Interior lights” earlier in this section.

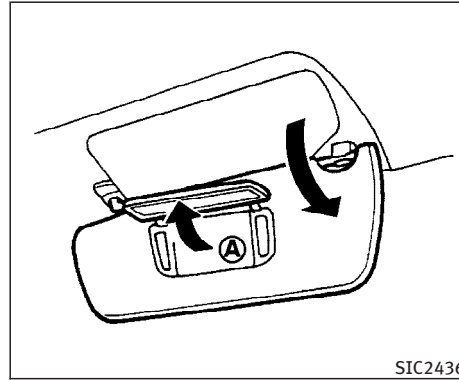
- ③ When the switch is pushed, both right and left lights come on.


VANITY MIRROR LIGHTS



Console light

The light will turn on when the headlight switch is turned to the AUTO,  or  position.



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.

TRUNK LIGHT

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

HomeLink® UNIVERSAL TRANSCEIVER

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

The HomeLink® Universal Transceiver power will automatically turn off 30 minutes after the ignition switch has been turned to the off position.

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



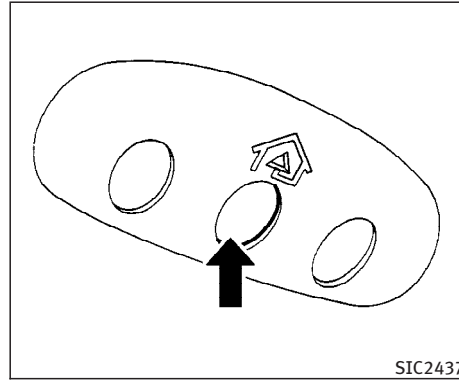
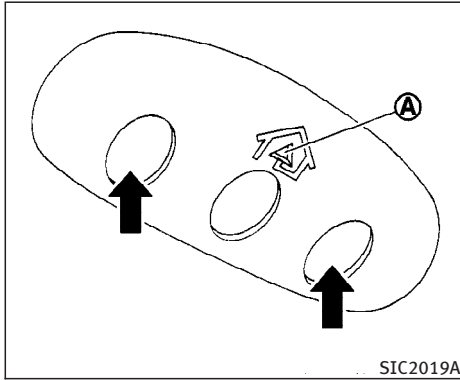
WARNING

- **Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982.) A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.**
- **During the programming procedure, your garage door or security gate will open or close (if the transmitter is within range). 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 the 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 the HomeLink® flashes, changing from a “slow blink” to a “rapid blink”. This could take up to 90 seconds. When the indicator light flashes 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 the 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 the HomeLink® to complete the programming which may require a ladder and another person for convenience.
6. Push and release the training 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. Use the help of a second person for convenience to assist when performing this step.

7. Quickly within 30 seconds of pushing and releasing the garage door opener program button, 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 2-8 only.)

NOTE:

Do not repeat step one 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[®], con-

tinue 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 TRANSCIEVER

The 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 the HomeLink[®] does not quickly learn the hand-held transmitter information:

- replace the hand-held transmitter bat-

teries 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 inches (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 (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 inches (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.

2-52 Instruments and controls

IF YOUR VEHICLE IS STOLEN

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

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

FCC Notice:

This device complies with FCC rules part 15. Operation is subject to the following two conditions: (1) This device may not cause harmful interference and (2) This device must accept any interference that may be received, including interference that may cause undesired operation.

The transmitter has been tested and complies with FCC and DOC/MDC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

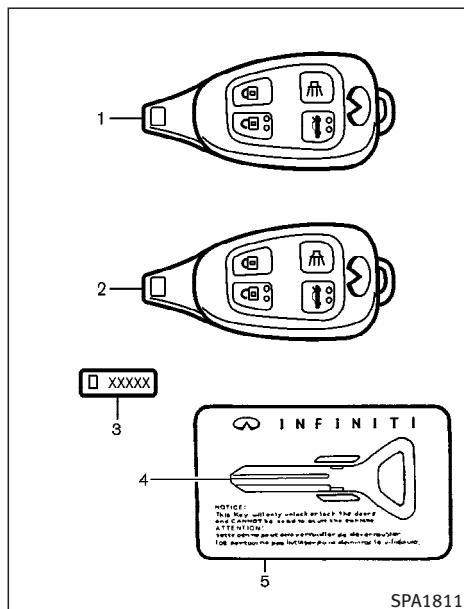
DOC: ISTC 1763K1313

FCC I.D.: CB2V67690

3 Pre-driving checks and adjustments

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KEYS (Electronic ignition key)



1. Master electronic ignition key 1 (With built-in transponder chip)
2. Master electronic ignition key 2 (With built-in transponder chip)
3. Key number plate
4. Wallet key

3-2 Pre-driving checks and adjustments

5. Key case (Card type)

The master electronic ignition keys have a transponder.

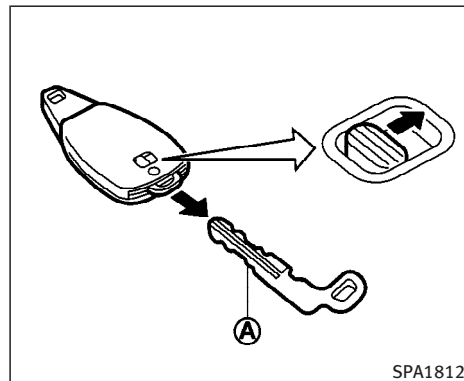
When the master electronic ignition key is inserted in the ignition switch, verification of the transponder ID will start automatically. If the ID code is judged to be correct, the ignition switch lock will be released, allowing the key to turn and the engine to start.

You can only drive your vehicle using the master electronic ignition keys which are registered to the INFINITI Vehicle Immobilizer System components in your vehicle. These keys have a transponder chip. The wallet key and emergency key cannot be used to start and drive your vehicle.

The emergency key and wallet key can be used for all locks.

When the key case with the wallet key is placed into your wallet, be careful not to apply excessive force to the wallet as it or other cards could be damaged.

Do not allow the electronic ignition key, which contains an electrical transponder, to come into contact with water or salt water. This could affect the system function.



How to use the emergency key

If the remote control system cannot be used due to a discharged battery, use the emergency key (A) to lock or unlock the doors, glove box and trunk lid.

Removing the emergency key

- Release the lock knob at the rear of the master electronic ignition key and remove the emergency key as illustrated.
- To install the emergency key to the master electronic ignition key, securely lock the lock knob and then check that the emergency key will not move.

- The emergency key cannot be used to start the engine, but it can be used to release the steering lock.

Never leave these keys in the vehicle.

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

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

INFINITI VEHICLE IMMOBILIZER SYSTEM KEY - Master electronic ignition keys:

As many as 4 INFINITI electronic ignition keys can be used with one vehicle. New keys must be registered to the INFINITI Vehicle Immobilizer System components in your vehicle by your INFINITI dealer. Bring all INFINITI electronic ignition keys to your INFINITI dealer for registration. The registration process will erase all memory of the

INFINITI Vehicle Immobilizer System components so all keys require registration.

Valet hand-off

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

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

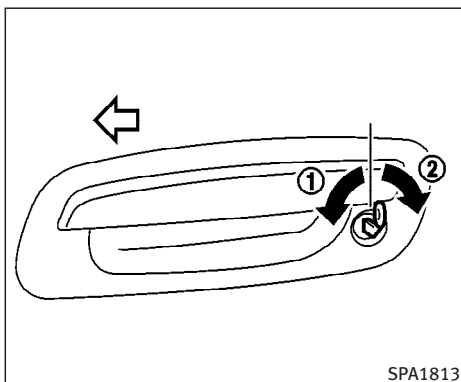
1. Push the trunk release power cancel switch to the CANCEL side. (See “TRUNK LID” later in this section.)
2. Remove the emergency key from the electronic key.
3. Lock the glove box with the emergency key. (See “STORAGES” in the “2. Instruments and controls” section.)
4. Hand the electronic key to the valet, keeping the emergency key in your pocket or bag for insertion into the electronic key when you retrieve your vehicle.

DOORS



WARNING

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

The power door lock system allows you to lock or unlock all doors simultaneously.

- Turning the driver's door key to the front of the vehicle ① will lock all doors.
- Turning the driver's door key one time to the rear of the vehicle ② will unlock the driver's door. From that position, re-turning the key to neutral (where the key can only be removed and inserted.) and turning it to the rear again within 5 seconds will unlock all doors.

3-4 Pre-driving checks and adjustments

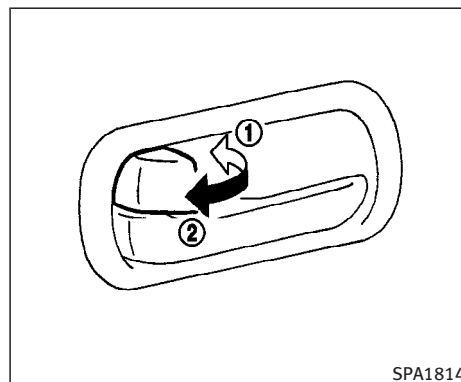
Opening and closing windows

The driver's door key operation allows you to open and close all door windows simultaneously.

To open the windows, turn the driver's door key to the rear of the vehicle for **longer than 1 second** after the door is unlocked.

To close the windows, turn the driver's door key to the front of the vehicle for **longer than 1 second** after the door is locked.

The rear door windows will operate 0.5 second after the front windows' operation. The door windows will open or close while turning the driver's door key. This function will operate after the ignition switch is off and 45 seconds passed or either of the front doors are opened.

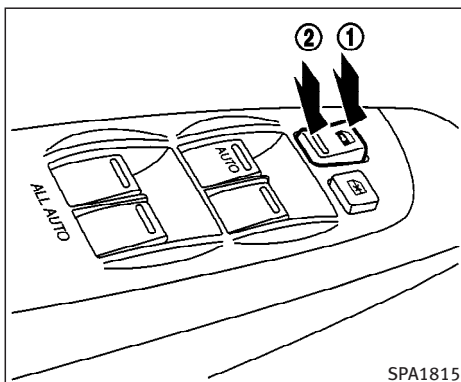


LOCKING WITH INSIDE LOCK KNOB

To lock the doors without a key, move the inside lock knob to the lock position ①, then close the door.

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

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



SPA1815

LOCKING WITH POWER DOOR LOCK SWITCH

Operating the lock-unlock switch will lock or unlock all doors. (driver and front passenger sides)

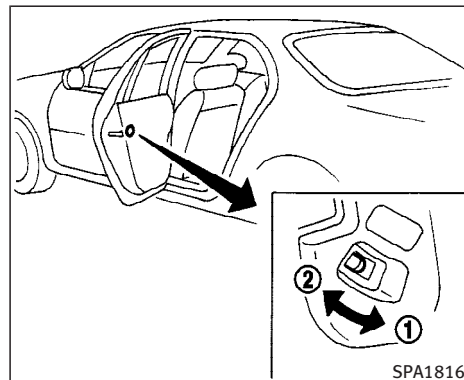
To lock the doors, push the power door lock switch located on the driver's or front passenger's armrest to the lock position ① with the driver's or front passenger's door open, then close the door.

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

To unlock, push the power door lock switch to the unlock position ②.

Lockout protection

When the power door lock switch (driver or front passenger) is moved to the lock position with the key in the ignition and any door open, all doors will lock and unlock automatically. This helps to prevent the keys from being accidentally locked inside the vehicle.



SPA1816

CHILD SAFETY REAR DOOR LOCK

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

When the lever is in the lock position ①, the rear door can be opened only from the outside.

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

REMOTE KEYLESS ENTRY SYSTEM

It is possible to lock/unlock all doors, open all windows, release the trunk lid and activate the panic alarm by using the electronic ignition key (electronic key) from outside the vehicle.

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

The electronic 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 electronic keys can be used with one vehicle. For information concerning the purchase and use of additional electronic keys, contact your INFINITI dealer.

The electronic keys will not function when:

- the battery is discharged,
- the distance between the vehicle and the electronic key is over 33 ft (10 m),
- the electronic key is in the ignition switch.



CAUTION

The following conditions or occurrences will damage the electronic key.

- Do not allow the electronic key to become wet.
- Do not drop the electronic key.
- Do not strike the electronic key sharply against another object.
- Do not place the electronic key for an extended period in an area where temperatures exceed 140°F (60°C).

If a electronic key is lost or stolen, INFINITI recommends erasing the ID code of that electronic key. This will prevent the electronic key from unauthorized use to unlock the vehicle. For information regarding the erasing procedure, please contact an INFINITI dealer.

OPERATION GUIDE			
MODE (Push "LOCK" and "UNLOCK" buttons for more than 2 seconds to switch)	Switching indicator	LOCK	UNLOCK
Hazard indicator and horn → HAZARD INDICATOR ONLY	HAZARD – 3 times	HAZARD – twice	No operation
Hazard indicator only → HAZARD INDICATOR AND HORN	HAZARD – once HORN – once	HAZARD – twice HORN – once	HAZARD – once

SPA1260

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

Setting hazard indicator and horn mode

The factory setting of the remote keyless entry system is in hazard indicator and horn mode.

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 hazard indicator and horn mode is not necessary, you can switch to hazard indicator only mode by following the switching procedure.

In hazard indicator only 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.

(Switching procedure)

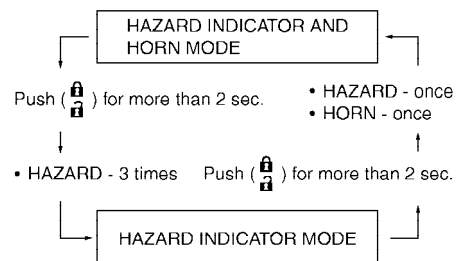
Push the LOCK and UNLOCK buttons on the electronic key simultaneously for more

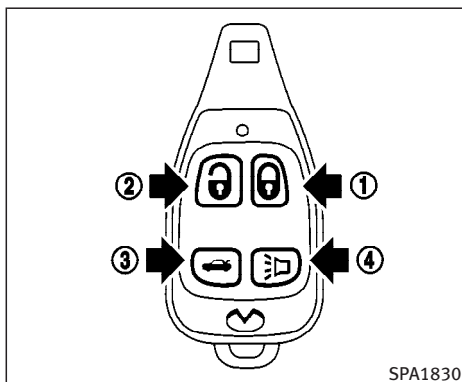
than 2 seconds to switch from one mode to the other.

When pushing the buttons to set hazard indicator only mode, the hazard indicator flashes 3 times.

When pushing the buttons to set hazard indicator and horn mode, the hazard indicator flashes once and the horn chirps once.

The mode also can be set on the setting display. See "4. Monitor, climate, audio and voice-activated control systems" section.





Locking doors

1. Remove the ignition key.
 2. Close all the doors.
 3. Push the LOCK button ① on the electronic key.
 4. All the doors will lock.
 5. The hazard indicator flashes twice and the horn chirps once.
- When the LOCK button is pushed with all doors locked, the hazard indicator flashes twice and the horn chirps once

to indicate that the doors are already locked.

Unlocking doors

1. Push the UNLOCK button ② on the electronic key once.
 - Only the driver's door unlocks
 - The hazard indicator flashes once.
 - The interior light turns on and the light timer activates for 30 seconds when the switch is in the center ○ position.
2. Push the UNLOCK button on the electronic key again within 5 seconds.
 - All doors unlock
 - The hazard indicator flashes once.

5 minutes after pushing the UNLOCK button, all doors will be locked automatically under following conditions.

- **When any door is not opened.**
- **When the ignition key is not set in the ON position.**

The interior light can be turned off without waiting for 30 seconds by turning the ignition switch to the ON position or by locking the doors with the electronic key.

Opening windows

The electronic key operation allows you to open all door windows simultaneously.

- To open the windows, push the UNLOCK button ② on the electronic key for **longer than 3 seconds** after the door is unlocked.

The rear door windows will operate 0.5 second after the front window operation. The door windows will open while pushing the UNLOCK button on the electronic key. This function will operate after the ignition switch is off and 45 seconds passed or either the front door is opened.

This opening windows function of the electronic key can be suspended. Please contact an INFINITI dealer.

The door windows cannot be closed by using the electronic key.

Releasing trunk lid

1. Push the TRUNK button ③ on the electronic key for longer than 0.5 seconds with the key removed from the key cylinder.

HOOD

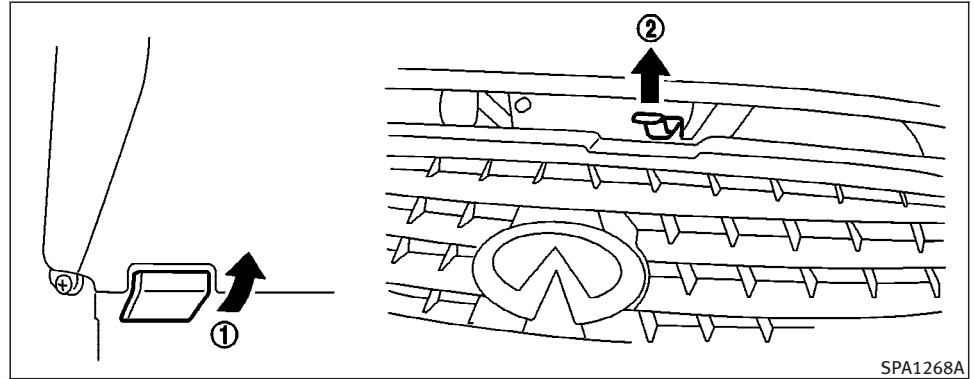
2. The trunk lid opens.

The trunk lid will not open when the power to the trunk lid is cancelled. See “Trunk lid” later in this section for this function. When the power to the trunk lid is cancelled, the trunk lid can be opened only with the key.

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 ④ on the electronic key for **longer than 0.5 seconds**.
2. The vehicle security alarm and headlights will stay on for 30 seconds.
3. The panic alarm stops when:
 - It has run for 30 seconds, or
 - The LOCK or UNLOCK button is pushed, or
 - The panic button or the TRUNK button on the electronic key is pushed for longer than 0.5 seconds.



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 at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood and make sure it locks into place.



WARNING

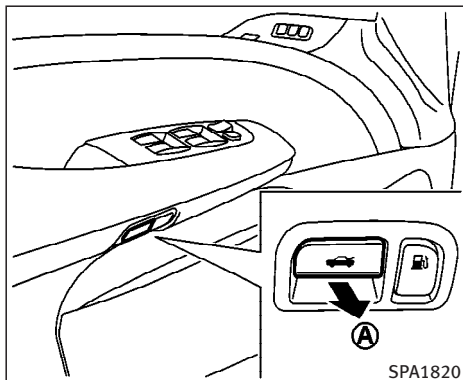
- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause the hood to fly open and result in an accident.**
- **If you see steam or smoke coming from the engine compartment, to avoid injury do not open the hood.**

TRUNK LID



WARNING

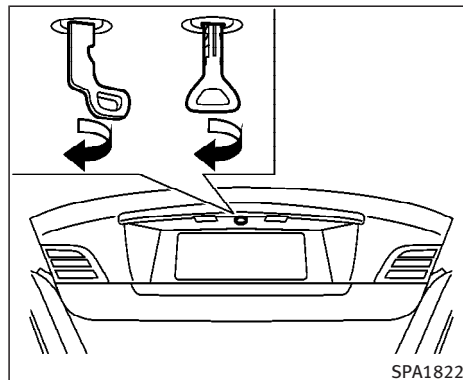
- Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas” in the “5. Starting and driving” section of this manual.
- Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the trunk closed, when not in use, and prevent children’s access to car keys.



OPENER OPERATION

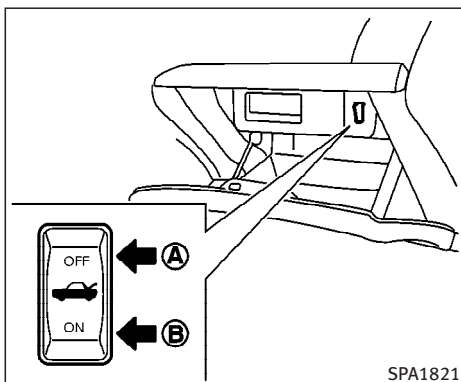
The trunk lid release switch is located under the driver’s armrest.

To open the trunk lid, pull the release switch (A). To close, push the trunk lid down.



KEY OPERATION

To open the trunk lid, turn the key clockwise. To close remove the key, lower and push the trunk lid down.



TRUNK RELEASE POWER CANCEL SWITCH

When the switch located inside the glove box is OFF (A), the power to the trunk lid will be cancelled and the trunk lid cannot be opened by the trunk lid release switch or the trunk lid opener button on the electronic ignition key. It can be opened only with the emergency key or wallet key.

For valet hand-off, see “Keys (Electronic ignition key)” earlier in this section.

To connect the power to the trunk lid, push the switch to ON (B) position.

AUTO CLOSURE

If the trunk lid is pulled down to a partly open position, the lid will pull itself to the closed position.

Do not apply excessive force when the auto closure is operating. Excessive force applied may cause the mechanism to malfunction.



CAUTION

- The lid will automatically close from a partly open position. To avoid pinching, keep hands and fingers away from trunk opening.
- Do not let children operate the trunk lid.

AUTO OPEN/CLOSE TRUNK LID



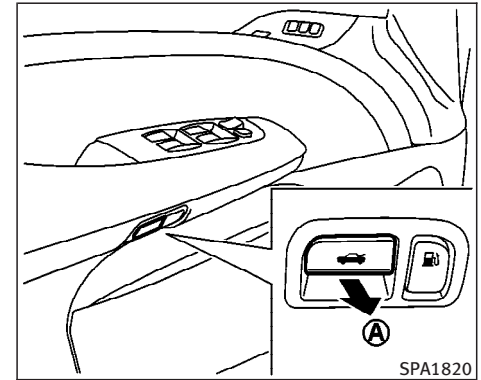
CAUTION

- Make sure there is no one around the trunk before operation. Be careful not

to pinch your fingers, arms or neck as the trunk will open or close automatically.

- A buzzer will sound during operation, stand away from the trunk lid.
- Do not leave the vehicle before the trunk lid closes completely.
- Do not overload the trunk. Otherwise, when the trunk lid is closed automatically, the lid or load could be damaged or deformed.
- The automatic function may not operate if the wind is strong, or when the trunk lid is covered by snow or frozen.
- If a heavy accessory is attached to the trunk lid, the automatic function may not operate.
- Do not operate the automatic function when leaning against the trunk lid or with a load on the trunk lid.
- Do not operate the automatic function in a car wash.

- If opening and closing operations are performed continuously, a protection circuit may operate to cancel operations.
- If the engine is started during automatic operation, an erroneous operation may occur.
- The automatic trunk opening and closing mechanism will not operate under the following conditions:
 - when the selector lever is in a position other than P
 - when the vehicle speed is above 7 km/h (11 MPH)
- The automatic operation will be canceled if the following is performed during automatic trunk opening or closing operation.
 - when the trunk opener is pulled
 - when the trunk switch on the electronic key is pushed for more than 0.5 seconds
 - when the closing switch is pushed
 - when the selector lever is shifted to a position other than P
 - when the vehicle speed is above 7 km/h (11 MPH)
- when trunk lid closing operation is stopped by hand before the auto closure mechanism operates

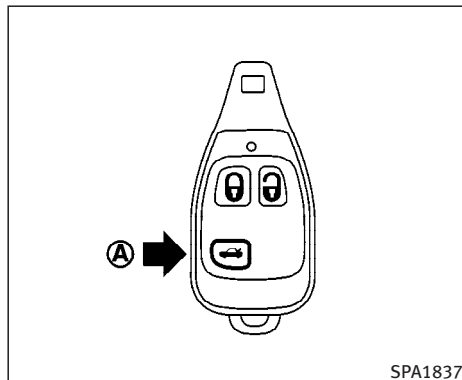


How to open automatically with the trunk opener

- ① Pull the trunk opener switch (A) located on the lower portion of the driver's door armrest to unlock the trunk lid.
- ② Pull the trunk opener switch for about 1 second until a beep sound is heard. The trunk will open automatically all the way.

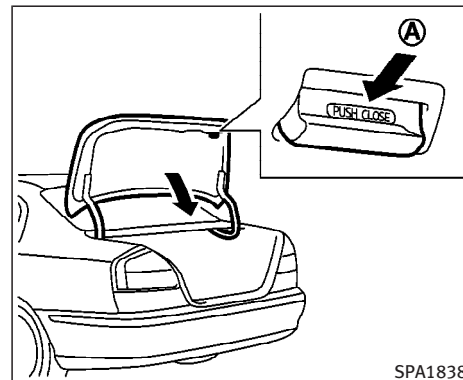
When the anti-theft alarm is set, it is not possible to unlock the trunk with the trunk opener.

Refer to how to cancel the trunk opener.



How to open automatically with the trunk button on the electronic ignition key

- ① Approach to the trunk and push the trunk button (A) on the electronic ignition key for about 0.5 seconds. The trunk will be unlocked.
- ② After unlocking the trunk, push the trunk button on the electronic ignition key for about 0.5 seconds. The trunk will open automatically all the way.



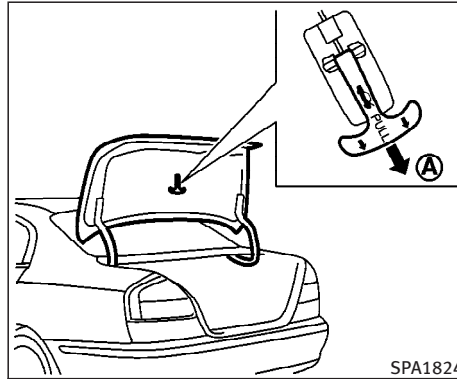
How to automatically close the trunk lid

Push and hold the close switch (A) on the trunk lid for about 1 second until a beep sound is heard. The trunk lid will close automatically all the way.

Opening without using automatic operation

If you do not want to use the automatic function (such as in the rain), the trunk will only be unlocked by the following operations:

- when the trunk lid opener switch (A) is pulled for less than 1 second
- when the trunk button (B) on the electronic ignition key is pushed only once



The interior trunk lid release mechanism provides a means of escape for children and adults in the event they become locked inside the trunk.

To open the trunk lid from the inside, pull the release handle (A) 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.

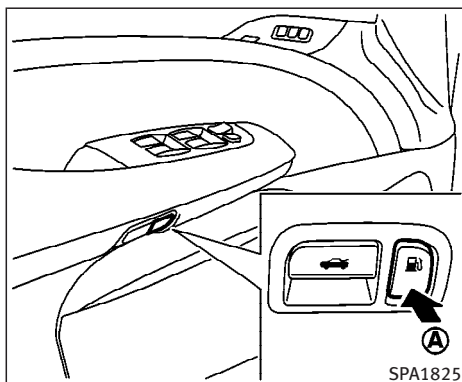
The handle is located on the back of the trunk lid as illustrated.

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 car keys.

FUEL-FILLER DOOR



OPENER OPERATION

To open the fuel-filler door, push the opener switch (A). To lock, close the fuel-filler door securely.

FUEL-FILLER CAP



WARNING

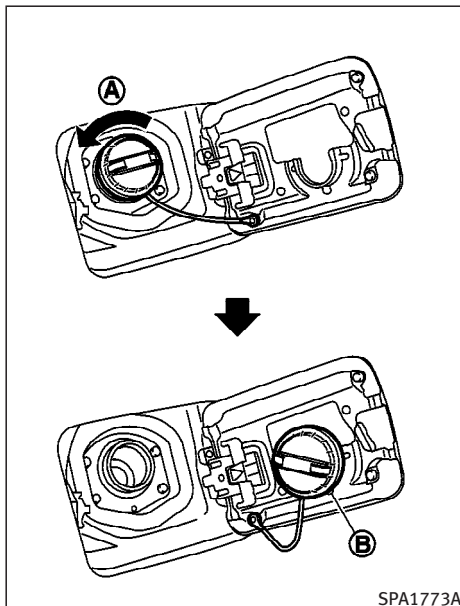
- Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop engine and do not smoke or allow open flames or sparks near the vehicle when refueling.
- Fuel may be under pressure. Turn the cap a third of a turn, and wait for any “hissing” sound to stop to prevent fuel from spraying out and possibly causing personal injury. Then remove the cap.
- 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 lamp 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.
- Tighten until the fuel-filler cap clicks. Failure to tighten the fuel-filler cap properly may cause the SERVICE ENGINE SOON malfunction indicator lamp (MIL) to illuminate. If the SERVICE ENGINE SOON lamp illuminates because the fuel-filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The SERVICE ENGINE SOON lamp should turn off after a few driving trips. If the SERVICE ENGINE SOON lamp does not turn off after a few driving trips, have the vehicle inspected by an INFINITI dealer.



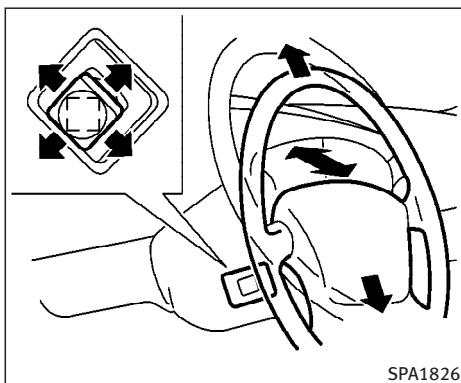
The fuel-filler cap is a ratcheting type. Turn the cap counterclockwise (A) to remove. To tighten, turn the cap clockwise until ratcheting clicks are heard.

Put the fuel-filler cap on the cap holder (B) while refueling.

TILTING TELESCOPIC STEERING COLUMN

WARNING

Do not adjust the steering wheel while driving. You could lose control of your vehicle and cause an accident.



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

The automatic drive positioner system will make the steering wheel move up automatically when the key is removed from the ignition switch. This lets the driver get into and out of the seat more easily. The steering wheel moves back into position when the key is inserted into the ignition switch.

For more information, see “Automatic drive positioner” later in this section.



WARNING

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.

SUN VISORS

USING THE SUN VISORS

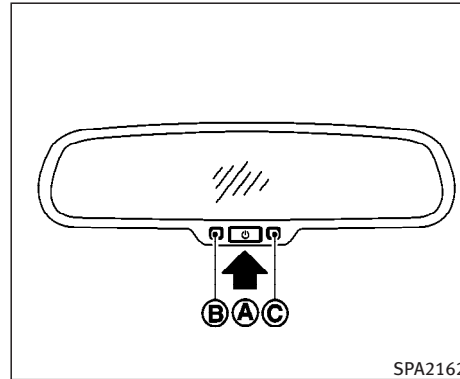
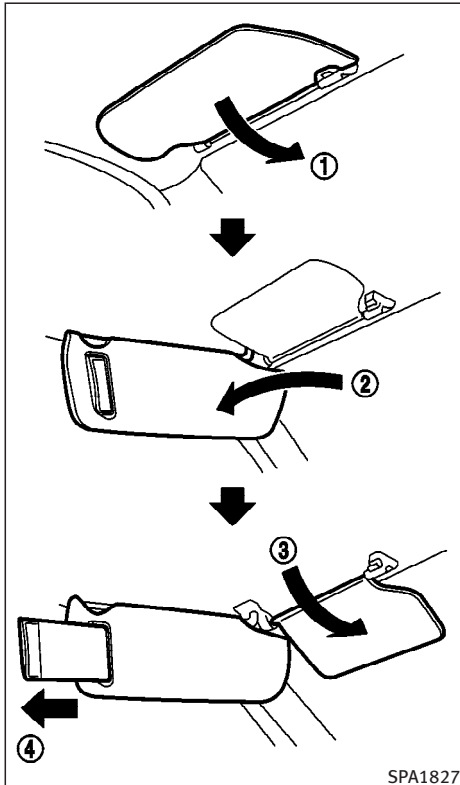


CAUTION

- Store the main sun visor after storing the sub-sun visor and the extension sun visor.
- Do not pull the sub-sun visor and the extension sun visor forcefully downward.

- ① To block out glare from the front, swing down the main sun visor.
- ② To block glare from the side, remove the main sun visor from the center mount and swing it to the side.
- ③ Then, to block glare from the front too, swing down the sub-sun visor.
- ④ Slide the extension sun visor if necessary.

MIRRORS





AUTOMATIC ANTI-GLARE INSIDE MIRROR AND OUTSIDE MIRROR (DRIVER'S SIDE ONLY)

The inside mirror and driver's side outside mirror are designed so that they automatically change reflection according to the intensity of the headlights of the vehicle following you.

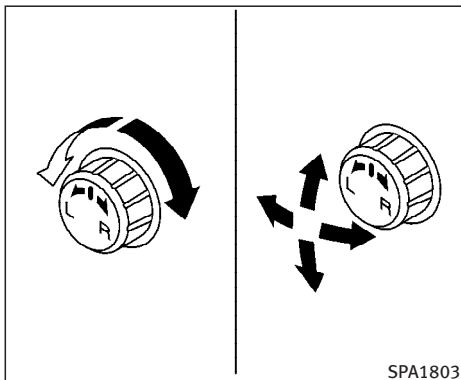
The anti-glare system will be automatically turned on when you turn the ignition switch to the "ON" position.

When the system is turned on, the indicator light (B) will illuminate and excessive

glare from the headlights of the vehicle behind you will be reduced.

Push the  switch for 3 seconds to make the inside mirror and outside mirror operate normally, and the indicator light will go off. Push the  switch again for 3 seconds to turn the system on.

Do not hang any object on the mirror or apply glass cleaner. Doing so will reduce the sensitivity of the sensor (C), resulting in improper operation.



OUTSIDE MIRRORS

Adjusting outside mirrors

The outside mirror will operate only when the ignition switch is in the ACC or ON position.

Turn the switch to the L or R side to select the left or right side mirror, then adjust using the control button.

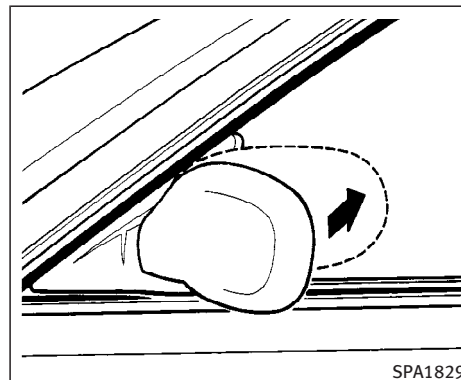


WARNING

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.

Defrosting outside mirrors

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



Foldable outside mirrors

Fold the outside mirror by pushing it toward the rear of the vehicle.

Reverse tilt-down feature

When the following conditions are met, the selected mirror surface will turn downward to provide better rear visibility close to the vehicle.

1. The ignition switch is ON.
2. The outside mirror control switch is turned to L or R.

AUTOMATIC DRIVE POSITIONER

3. The selector lever is moved to R (Reverse).

After the shift lever is moved to R (Reverse), the mirror surface selected in step 2 will turn downward.

The selected mirror surface will return to its original position when any of the following have occurred:

- 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 turned OFF.

For more information regarding this feature and how to save the R (Reverse) mirror tilt-down adjustment in the “Automatic drive positioner” memory, refer to “Automatic drive positioner” later in this section.

The automatic drive positioner system has two features:

- Entry/exit function
- Memory storage

ENTRY/EXIT FUNCTION

This system is designed so that the driver’s seat, steering column and outside mirror will automatically move when the automatic transmission 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 key is removed from the ignition switch.
- When the driver’s door is opened with the key in the LOCK position.
- When the key is turned to the LOCK position with the driver’s door open.

The driver’s seat and steering wheel will return to the previous position:

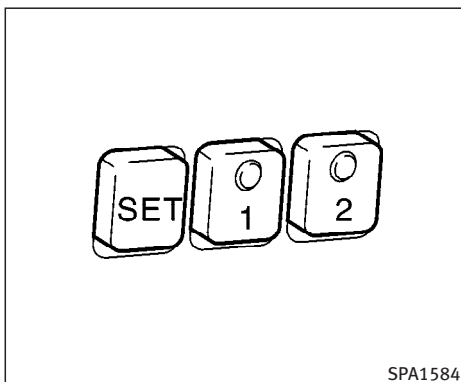
- When the key is inserted into the ignition switch.

- When the driver’s door is closed with the key in the LOCK position.
- When the key is turned from ACC to ON with the driver’s door open.

The entry/exit function can be activated or canceled. See “Vehicle electronic systems” in the “4. Monitor, climate, audio and voice-activated control systems” section.

Initializing 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 inserting the electronic key into the ignition switch. The entry/exit function will be activated.



MEMORY STORAGE FUNCTION

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. Set the selector lever to the P (Park) position.
2. Turn the ignition ON.
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 "Steering wheel" and "Outside mirrors" earlier in this section.

During this step, do not turn the ignition to any positions other than ON.

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 come on and stay on for approximately 5 seconds after pushing the switch. After the indicator light goes off, the selected positions are stored in the selected memory (1 or 2).

If memory is stored in the same memory switch, the previous memory will be deleted.

Procedure for storing the outside mirror positions for best visibility at reverse tilt-down feature

Two outside mirror positions for backing up can be stored in the automatic drive positioner memory.

1. Set the parking brake.

2. Turn the ignition ON. (Do not start the engine.)
3. Push the memory switch 1 or 2 fully for at least 1 second to operate the automatic drive positioner.
4. Turn the outside mirror control switch to L (left).
5. Depress the brake pedal.
6. Move the selector lever to R (Reverse).
7. Adjust the mirror to the desired viewing position for backing up by operating the outside mirror control switch.
8. Push the SET switch and, within 5 seconds, push the memory switch 1 or 2 selected in step 3 fully for at least 1 second.
- The indicator light for the pushed memory switch will come on and stay on for approximately 5 seconds after pushing the switch. After the indicator light goes off, the selected mirror position is stored in the selected memory (1 or 2).
9. Turn the outside mirror control switch to R (right). Repeat the above procedure to adjust

the right mirror position and store in the selected memory.

- When the driver's seat, outside mirror and steering column are not in the memorized position, the outside mirror will move with the initial tilt-down angle, if the reverse tilt-down position is stored.

Linking an electronic key to a stored memory position

An electronic 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 (at step 4 of storing the automatic drive positioner memory), push the "UNLOCK" button on the electronic key. The indicator light will blink. After the indicator light goes off, the electronic key is linked to that memory setting.

With the key removed from the ignition switch, push the "UNLOCK" button on the electronic key. The driver's seat, steering

column and outside mirrors will move to the memorized position.

Confirming memory storage

- Turn the ignition ON and push the SET switch. If the main memory has not been stored, the indicator light will come on for approximately 0.5 seconds. When the memory has stored the 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 such a case, reset the desired positions using the following procedures.
- If optional electronic keys are added to your vehicle, the memory storage procedure to switch 1 or 2 and linking electronic key procedure to a stored memory position should be performed again for each electronic key. For additional electronic key information, see "Key (Electronic ignition key)" earlier in this section.

Selecting the memorized position

1. Set the selector lever to the P (Park) position.

2. Turn the ignition ON.
3. 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.

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 any two of the memory switches are simultaneously pushed while the automatic drive positioner is operating.
- when the adjusting switch for the driver's seat is moved 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 has been already moved to the memorized position.

- when no seat position is stored in the memory switch.

The automatic drive positioner system can be canceled. See “Vehicle electronic systems” in the “4. Monitor, climate, audio and voice-activated control systems” section of this manual.

4 Monitor, climate, audio and voice-activated control systems

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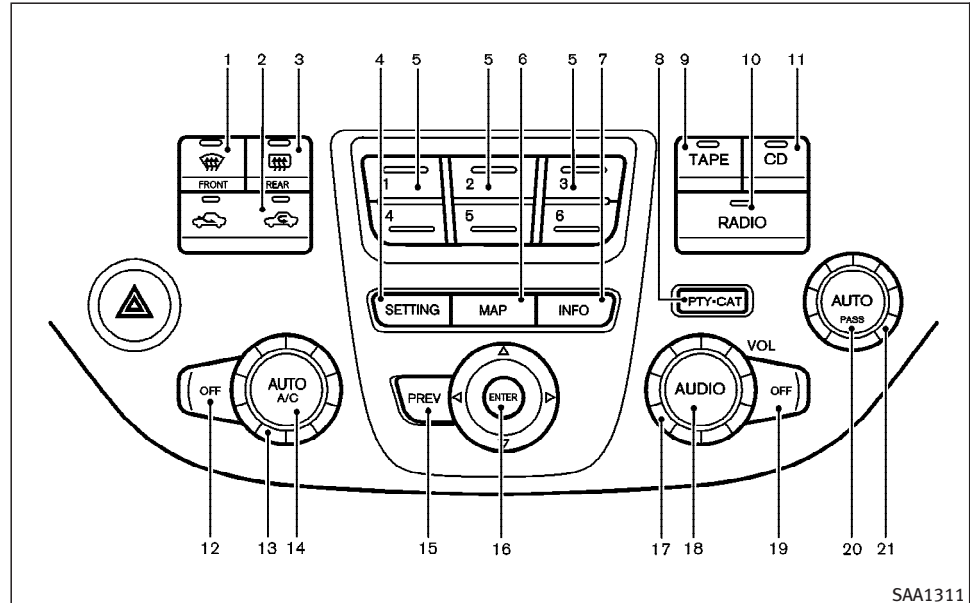
SAFETY NOTE



WARNING

- Positioning of the heating or air conditioning controls and display controls should not be done while driving, in order that full attention may be given to driving operation.
- 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 dealer. Ignoring such conditions may lead to accidents, fire, or electric shock.

CONTROL PANEL BUTTON FUNCTIONS






SAA1311

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.

NAMES OF THE COMPONENTS

1. “” front defogger button
2. Air recirculation “”, fresh “” button

3. “” rear window defogger button
4. “**SETTING**” button for audio, display and Vehicle Electronic Systems
5. A/C and audio control button “” to “”
6. “**MAP**” button (Navigation system equipped vehicles only); refer to the separate Navigation (NAVI) system Owner’s Manual.
7. “**INFO**” vehicle information button
8. “**PTY-CAT**” program type/category button
9. “**TAPE**” play button
10. “**RADIO**” AM, FM1/FM2 and SAT1/SAT2 band select button
11. “**CD**” play button
12. “**OFF**” button for climate control system
13. Temperature control knob (driver only or driver and passenger)
14. “**AUTO**” automatic climate control ON button
15. “**PREV**” previous button
16. JOYSTICK and “**ENTER**” push button

17. Volume control knob for audio
18. “**AUDIO**” ON button
19. “**OFF**” button for audio
20. “**AUTO PASS**” automatic climate control ON button (passenger side)
21. Temperature control knob (passenger side)

JOYSTICK AND ENTER BUTTON

Choose an item on the display using the joystick and push the “**ENTER**” button for operation.

Reference symbols

“**ENTER**” button:

This is a button on the control panel.

“**Display**” key:

This is a select key on the screen. By selecting this key you can proceed to the next function.

PREV BUTTON

This has two functions.

- Go back to the previous display (cancel).

If you touch “**PREV**” button during setup, the setup will be canceled and/or the display will return to the previous screen.

- Finish setup.

If you touch this button after the setup is completed, the setup will start over, and the display will return to the climate control, Audio mode or Navigation (if so equipped) screen.

If you want to return to the climate control mode screen, push the “**AUTO**” button. To return to the audio mode, push the “**Audio**” button.

START-UP SCREEN (model with Navigation system)

When you turn the ignition key to ACC, the SYSTEM START-UP warning is displayed on the screen. When you read and agree with the warning, push the “**ENTER**” button.

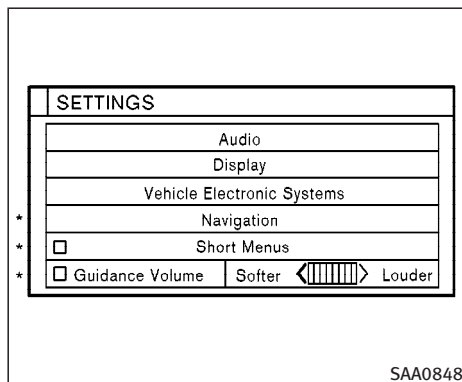
If you do not push the “**ENTER**” button, this system will not proceed to the next step display.

To proceed to the NAVI system, refer to the separate Navigation system Owner’s Manual.

HOW TO USE “SETTING” BUTTON

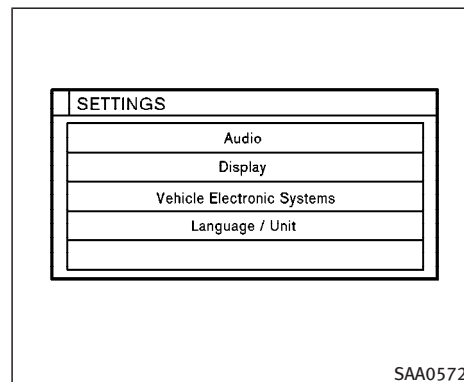
To set Audio (Bass, Treble, Balance, Fader and Button Tone/Beep Response), Display (Brightness/Contrast, Display Off, Settings Display Duration and Audio & Climate Control Dual Display), Vehicle Electronic systems and Navigation system (if so equipped), push the “**SETTING**” button.

The following display will appear when the “**SETTING**” button is pushed.



Model with Navigation system

* Please refer to the separate Navigation system Owner's Manual.



Model without Navigation system

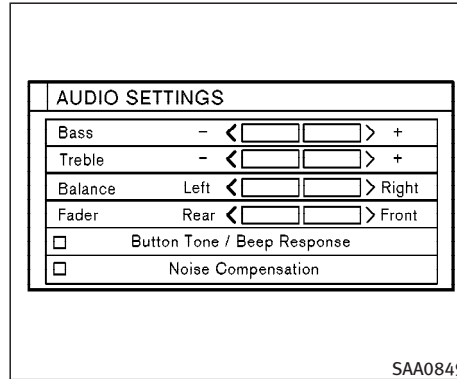
REAR VIEW MONITOR SETTING



WARNING

Do not adjust the Brightness, Contrast, Tint and Color of the rear view monitor while the vehicle is moving. Make sure the parking brake is firmly applied and the engine is not running.

To adjust the Brightness, Contrast, Tint and Color of the rear view monitor, push the “**SETTING**” button with the rear view monitor on, select the item key and adjust the level using the joystick.



AUDIO SETTINGS

The following display will appear after pushing the “**SETTING**” button, selecting the “**Audio**” key with the joystick and pushing the “**ENTER**” button.

To adjust it by the speaker tone quality and sound (balance and fader), select the “**Bass**”, “**Treble**”, “**Balance**” or “**Fader**” key and adjust it by using the joystick.

When the “**Button Tone/Beep Response**” indicator turns green, the beep will sound. (When you first receive the vehicle, the beep will be set to off.)

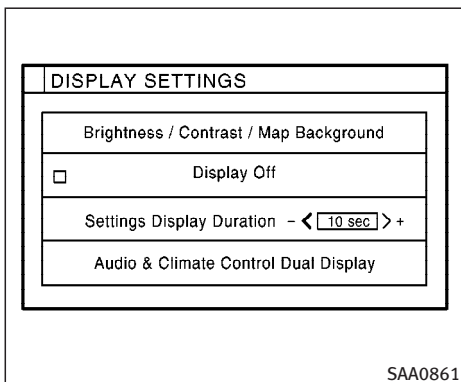
To stop the beep, select the “**Button Tone/Beep Response**” key using the joystick and push the “**ENTER**” button. The indicator of the “**Button Tone/Beep Response**” key will turn off.

To maintain the sound quality and speech intelligibility, select the “**Noise Compensation**” key and push the “**ENTER**” button. The indicator light of the “**Noise Compensation**” key will turn green.

To return to the **SETTING** screen, push the “**PREV**” button or “**SETTING**” button.

DISPLAY SETTINGS

The following display will appear when pushing the “**SETTING**” button, selecting “**Display**” key and pushing the “**ENTER**” button.



Brightness/Contrast/Map Background (model with Navigation system)

To adjust the brightness and contrast of the screen, select the “**Brightness/Contrast**” key and push the “**ENTER**” button. Then you can adjust the brightness to Darker or Brighter, and the contrast to Lower or Higher using the joystick.

- You can have two different brightness settings for the display. One setting is for when the headlights are on and the

other setting is for when the headlights are off.

The “Map Background” is for models with navigation system. Please refer to the separate navigation system Owner’s Manual.

Display Off

To turn off the screen, push the “**SETTING**” button and select the “**Display**” key and “**Display Off**” key. The indicator of the “**Display Off**” will turn on to green. 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 on the Audio & Climate Control Dual Display, SETTING or VEHICLE INFO. the map display (Navigation system only) modes.

To turn on the screen, push the “**SETTING**” button and select the “**Display**” key and “**Display Off**” key, then set the screen to ON by pushing the “**ENTER**” button.

Settings Display Duration

When the “Display Settings” adjustments are completed, the display automatically returns to either the audio or air conditioning control screen, whichever was dis-

played last. You can set the length of time that the “Display Settings” screen will be shown after no additional adjustments are made.

To set the display duration, select the “settings display duration” key and move the joystick to the left (shorter duration) or right (longer duration).

To set the display duration, select the current time setting with the joystick and push the “**ENTER**” button.

Audio & Climate Control Dual Display

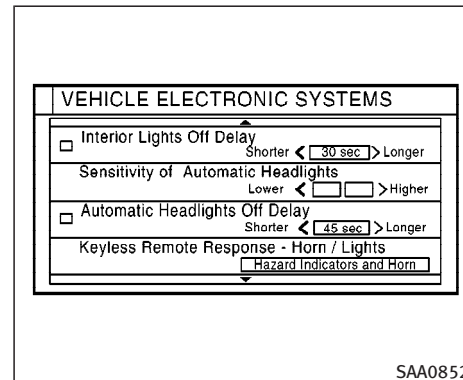
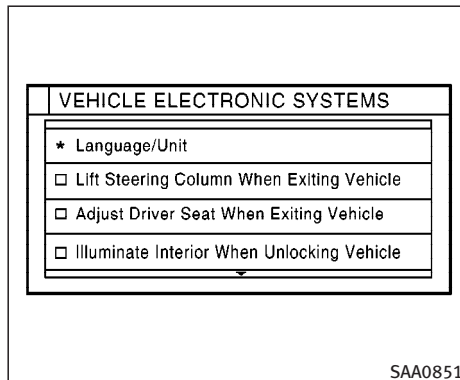
Select the “**Audio & Climate Control Dual Display**” key and push the “**ENTER**” button. The audio and climate control setting condition will appear on the screen.

To return to the setting screen, push the “**SETTING**” button.

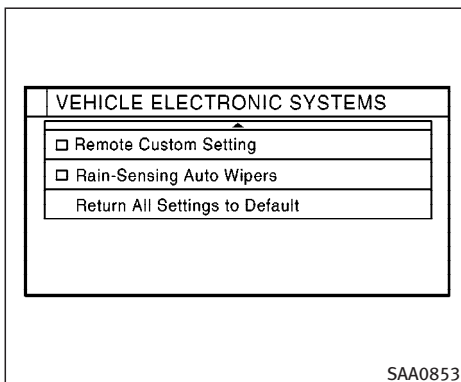
VEHICLE ELECTRONIC SYSTEMS

The following display will appear when selecting the “**Vehicle Electronic Systems**” key with the joystick and pushing the “**ENTER**” button while the engine is running.

You can set the various electronic systems operating conditions.



*Model with Navigation system only



To set an operating condition, select the applicable item using the joystick, and push the “**ENTER**” button.

The indicator light alternately turns on and off each time the “**ENTER**” button is pushed.

Indicator light is illuminated. — ON

Indicator light is not illuminated. — OFF

Lift steering column when exiting vehicle

The steering column automatically tilts up and returns to the original position for ease of entry and exit.

4-8 Monitor, climate, audio and voice-activated control systems

Note that if the entry/exit functions for the steering column and driver’s seat are simultaneously canceled, the seat memory function of the automatic drive positioner will also be canceled.

Adjust driver seat when exiting vehicle

The driver’s seat automatically moves back and returns to the original position for ease of entry and exit.

Note that if the entry/exit functions for the steering column and driver’s seat are simultaneously canceled, the seat memory function of the automatic drive positioner will also be canceled.

Illuminate interior when unlocking vehicle

The interior light automatically turns on when the door is unlocked using the UN-LOCK button on the electronic ignition key or the key.

Interior lights off delay

You can set the time (15 sec. to 45 sec.) or turn off the interior light timer.

Select the “**Interior Lights Off Delay**” key, then move the joystick to the left or right to adjust the timer.

Sensitivity of automatic headlights

Automatic light illumination can be set as desired.

Select the “**Sensitivity of Automatic Headlights**” key, then move the joystick to the left (lower) or right (higher).

Automatic headlights off delay

You can control how long it takes the automatic timer to turn off the headlights or turn off the timer in the AUTO position after you turn the key to OFF and close all doors.

Select the “**Automatic Headlights Off Delay**” key, then move the joystick to the left or right to adjust the timer.

Keyless remote response — horn/lights

When this key is set to Hazard indicators and horn, or Hazard indicators only, the following conditions will be set.

MODE	Lock	Unlock
Hazard indicators only	Hazard — twice	No operation
Hazard indicators and horn	Hazard — twice Horn — once	Hazard — once

Remote custom settings

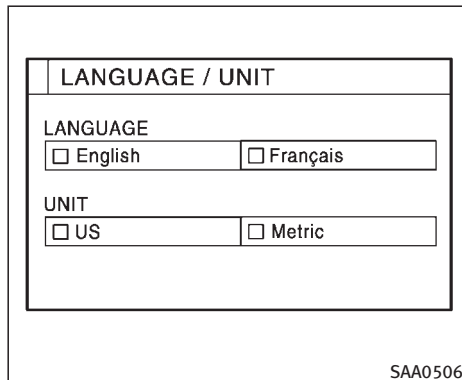
If you unlock a door with the same electronic ignition key used when locking with the “**Remote Custom Settings**” key on, the audio settings you made last time remain the same. As many as four electronic ignition keys can be used with one vehicle.

Rain-sensing auto wipers

When this key is turned on using the “**ENTER**” button, the Rain-sensing auto wiper is ready to be set as your preference. For more details, see “Windshield wiper and washer switch” in the “2. Instruments and controls” section.

Return all settings to default

When this key is turned on using the “**ENTER**” button, all settings made by VEHICLE ELECTRONICS will return to the original factory - set conditions.



Language/unit (For model without Navigation system)

The following display will appear when selecting the “**Language/Unit**” key and pushing the “**ENTER**” button.

Language: English or French

Unit: US — Mile, °F, MPG
Metric — km, °C, /100 km

You can select the language and unit using the joystick and “**ENTER**” button.

REAR VIEW MONITOR

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

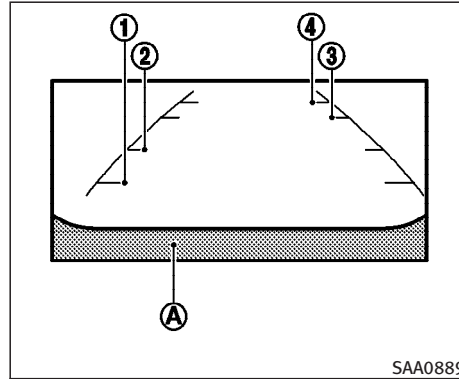
- The rear view camera is a convenience but it is not a substitute for proper backing up. Always turn and check that it is safe to do so before backing up. Always back up slowly.
- Objects viewed in the rear view monitor differ from actual distance because a wide-angle lens is used. Objects in the rear view monitor will appear visually opposite than when viewed in the rear view and outside mirrors.
- Make sure that the trunk is securely closed when backing up.

- Do not put anything on the rear view camera. The rear view camera is installed above the license plate.
- When washing the vehicle with high-pressure water, be sure not to spray it around the camera. Otherwise, water may enter the camera unit causing water condensation on the lens, a malfunction, fire or an electric shock.
- Do not strike the camera. It is a precision instrument. Otherwise, it may malfunction or cause damage resulting in a fire or an electric shock.



CAUTION

There is a plastic cover over the camera. Do not scratch the cover when cleaning dirt or snow from the cover.



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HOW TO READ THE DISPLAYED LINES

Lines which indicate the vehicle clearance and distances to objects with reference to the bumper line (A) are displayed on the monitor.

They are indicated as reference distances to objects. Displayed lines indicate distances 1.5 feet (red) ①, 3 feet (yellow) ②, 7 feet (green) ③ and 10 feet (green) ④ [0.5 m (red), 1 m (yellow), 2 m (green) and 3 m (green)] from the lower part of the bumper line (A).

The vehicle clearance lines are wider than the actual clearance.

ADJUSTING THE SCREEN

To adjust the quality of the screen, refer to HOW TO USE THE “SETTING” BUTTON in this section.

Do not adjust the Brightness, Contrast, Tint and Color of the rear view monitor while the vehicle is moving. Make sure the parking brake is firmly applied and the engine is not running.

OPERATING TIPS

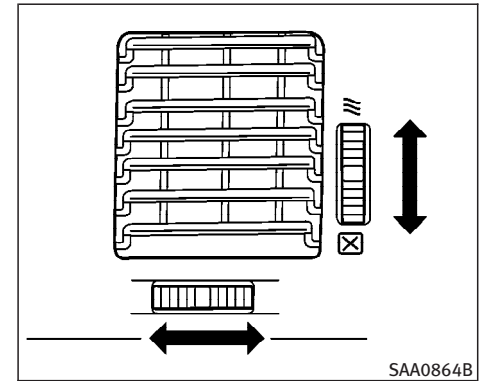
- When the selector lever is shifted to R, the monitor screen automatically changes to the rear view monitor mode. However, the radio can be heard.
- It may take some time until the rear view monitor is displayed after the selector lever has been shifted to R. Objects may be distorted momentarily until the rear view monitor screen is displayed completely. When the selector lever is returned to a position other than R, it may take some time until the screen changes. Objects on the screen may be distorted until they

are completely displayed.

- 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.
- 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 rear view monitor may differ somewhat from those of the actual object.
- When the contrast of objects is low at night, pushing the “ENTER” button may not change the brightness.
- Objects on the monitor may not be clear in a dark place or at night.
- If dirt, rain or snow attaches to the camera, the rear view 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 body wax on the camera window. Wipe off any wax with a clean cloth dampened with mild detergent diluted with water.

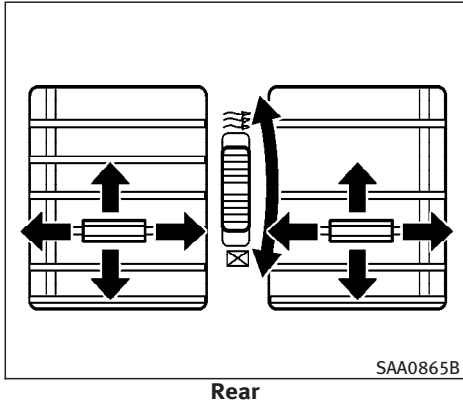
VENTILATORS



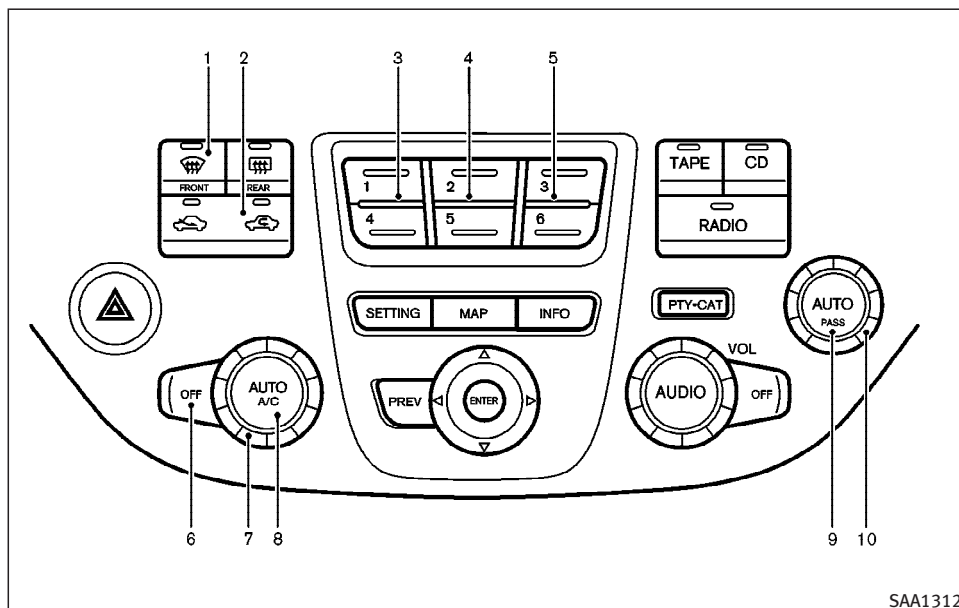
Open or close, and adjust the air flow direction of ventilators.

☒ : This symbol indicates that the vents are closed.

≡ : This symbol indicates that the vents are open.



AUTOMATIC CLIMATE CONTROL



6. **“OFF”** button for climate control system
7. Temperature control knob (driver only, or driver and passenger)
8. **“AUTO”** climate control ON button
9. **“AUTO PASS”** ON button (passenger side)
10. Temperature control knob (passenger side)

1. “ ” Front defroster button
2. Intake air control “ ” button
3. Air conditioner control “ ” (“**DRIVER**” key), “ ” (“**DUAL**” key) buttons
4. A/C control “ ” (“ ” fan speed up), “ ” (“ ” fan speed down)
5. A/C control “ ” (“**PASS**” key), “ ” (“**ECON**” key) buttons

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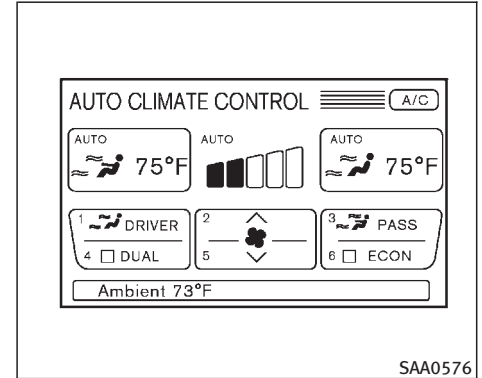


WARNING

- 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.
- Positioning of the heater and/or air conditioner controls should not be done while driving, so full attention may be given to vehicle operation.

Start the engine and operate the controls to activate the air conditioner (A/C).

When the “**AUTO**” button or “**AUTO PASS**” button is pushed, the “**AUTO CLIMATE CONTROL**” screen will appear.



You can individually set driver and front passenger side temperature and air flow using each temperature control knob and A/C control buttons “1” to “6”.

AUTOMATIC OPERATION


Cooling and/or dehumidified heating (AUTO)

This mode may be used all year round. The system works automatically to maintain a constant temperature. Air flow distribution and fan speed are also controlled automatically.

1. Push the **“AUTO”** or **“AUTO PASS”** button on. (AUTO will appear on the display.)

2. Turn the temperature control knob to set the desired temperature.


For normal operation, adjust the temperature control knob to about 75°F (24°C).

3. When selecting the **“DUAL”** key by pushing A/C control button “” or when the passenger side temperature control knob is turned, the **“DUAL”** key indicator will turn on (green) and the temperature and air flow can be controlled individually from the driver and front passenger sides.

4. To turn off the climate control system, push the **“OFF”** button.

Economical operation (ECON)

Economical operation reduces some load to the engine to improve the fuel economy. It allows higher humidity than normal operation.

Pushing the **“ECON”** key using A/C control button “” changes operations as follows.


A/C → ECON → ECON off (A/C off) → ECON

Operations will appear on the upper right side on the display.

Push the AUTO button to turn on the automatic operation.

Heating (A/C off)

Use this mode when you need to heat only.

1. Push the **“ECON”** key using A/C control button “” twice (ECON indicator will turn off on the screen.).

2. Turn the temperature control knob 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.


- If the windows fog up, do not use the Heating mode.


3. To return to the air conditioner AUTO (A/C) mode, push the **“AUTO”** climate control on button. (AUTO will be displayed on the screen.)



Dehumidified defogging

1. Push the front defogger “” button on. (The indicator light on the switch will illuminate.)

2. Turn the temperature control knob to set the desired temperature.

- To quickly remove ice from the outside of the windows, set the A/C fan speed at its maximum by pushing the A/C control button “” and the A/C temperature at the highest by using the temperature control knob.



- As soon as possible after the windshield is clean, push the “” button to return to AUTO mode.

- When the front defogger “” button is pushed, the air conditioner will automatically be turned on at outside temperatures above 23°F (–5°C) to defrost the windshield. The air recirculation mode “” will automatically be turned off.

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




MANUAL OPERATION

Fan speed control




Push the A/C control button “” or “” to change the fan speed manually.

Push the “**AUTO**” button to return to automatic control of the fan speed.




Automatic intake air control



Push the intake air control button “ ” for automatic air intake control (Fresh, FRE/REC and Recirculation). The indicator light on the “” side will come on.

Air recirculation





Push the intake air control button “ ” to recirculate interior air inside the vehicle. The indicator light on the “” side will come on.


Outside air circulation


Push the button “ ” to draw outside air into the passenger compartment. The indicator light on the  button will come on.


The air recirculation “” cannot be activated when the air conditioner is in the front defrosting mode “”.


Air flow control

Pushing the A/C control button “” (Select the “ **DRIVER**” key — driver side) or “” (Select the “ **PASS**” key — passenger side) selects the air outlet to provide:

 : Air flow from front center, side and rear ventilators.

 : Air flow from front center, side and rear ventilators, and front and rear foot outlets.

 : Air flow mainly from front and rear foot outlets.

 : Air flow from defroster and front and rear foot outlets.

To turn system off

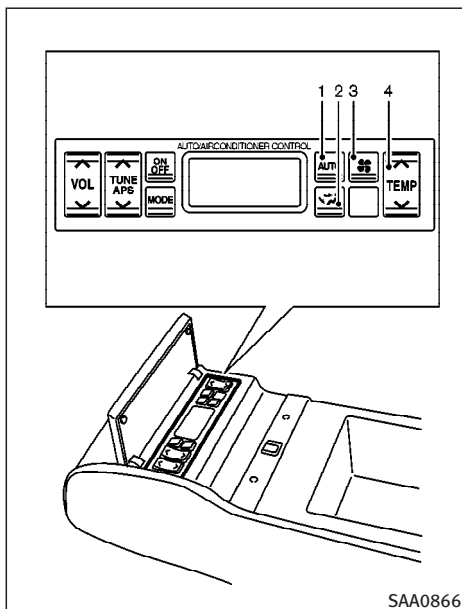
Push the OFF button.

AMBIENT TEMPERATURE

The ambient temperature will be displayed.

The ambient temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind direc-

tion and other driving conditions. The display may differ from the actual ambient temperature or the temperature displayed on various signs or billboards.




SAA0866


1. Auto button
2. Air flow selecting button
3. Fan speed control button
4. Temperature control button


REAR CONTROL SWITCHES FOR TEMPERATURE (if so equipped)

You can adjust the climate control system for rear seat passenger using the following climate control button items in the rear seat.

“**AUTO**” button: automatic climate control mode on

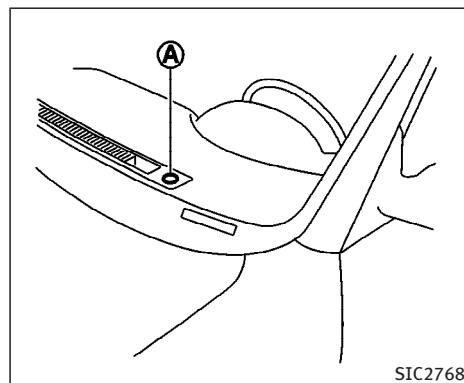
“” button: Fan speed control up (Max fan speed → return to Low fan speed)

“” button: Air flow selecting (center console)

“” button: Temperature control up/down

OPERATING TIPS

When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for 20 to 150 seconds. This is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets will operate normally.



SIC2768

The sensor **(A)** on the instrument panel helps maintain a constant temperature. Do not put anything on or around this sensor.

IN-CABIN MICROFILTER

The climate control system is equipped with an in-cabin microfilter which collects dirt, pollen, dust, etc. and it is also equipped with a deodorant filter to reduce odor. To make sure 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 your INFINITI dealer.

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

SERVICING CLIMATE CONTROL



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.

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” for climate control system refrigerant and lubricant recommendations.

Your INFINITI dealer will be able to service your environmentally friendly climate control system.

AUDIO SYSTEM

AUDIO OPERATION PRECAUTIONS

Radio

Turn the ignition key to ACC or ON and push the “**AUDIO**” on button to turn on the radio. If you listen to the radio with the engine not running, the key should be turned 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.

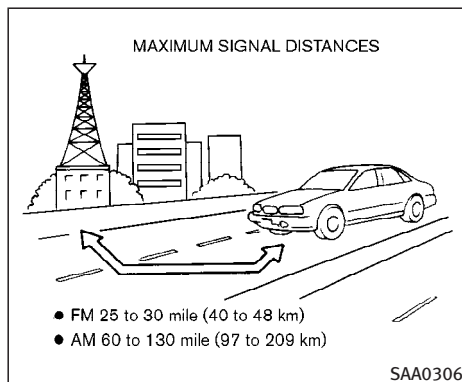
Radio reception:

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.



FM radio reception:

Range: FM range is normally limited to 25 to 30 miles (40 to 48 km), with monaural (single channel) 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 adjusting the treble control counterclockwise to reduce 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 (if so equipped) is first installed or the battery has been replaced, the satellite radio may not work properly. This is not a malfunction. Wait more than 10 minutes with satellite radio ON for satellite radio to receive all of the necessary data.

The satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed.

Satellite radio performance may be affected if cargo carried on the roof blocks the satellite radio signal.

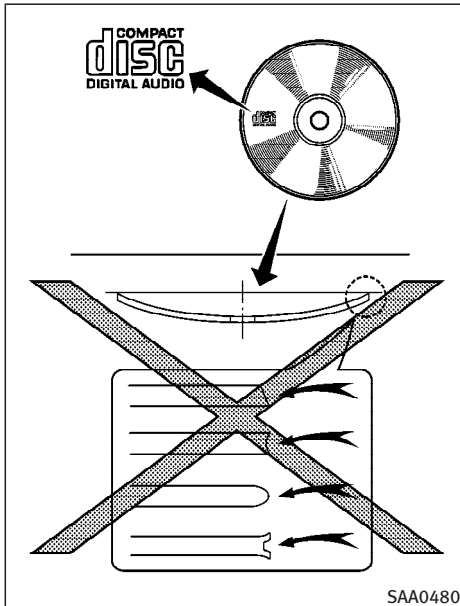
If possible, do not put cargo near the satellite antenna.

Satellite radio is not available in Alaska and Hawaii.

Cassette player

- **To maintain good quality sound, INFINITI recommends using cassette tapes of 60 minutes or shorter in length.**
- **Cassette tapes should be removed from the player when not in use. Store cassettes in their protective cases and away from direct sunlight, heat, dust, moisture and magnetic sources.**
- **Direct sunlight can cause the cassette to become deformed. The use of deformed cassettes may cause the cassette to jam in the player.**
- **Do not use cassettes with labels which are peeling and loose. If used, the label could jam in the player.**
- **If a cassette has loose tape, insert a pencil through one of the cassette hubs and rewind the tape firmly around the hubs. Loose tape may cause tape jamming and wavering sound quality.**
- **Over a period of time, the playback head, capstan and pinch roller may collect a tape coating residue as the tape is played. This residue accumulation can cause weak or wavering sound, and should be removed periodically with a**

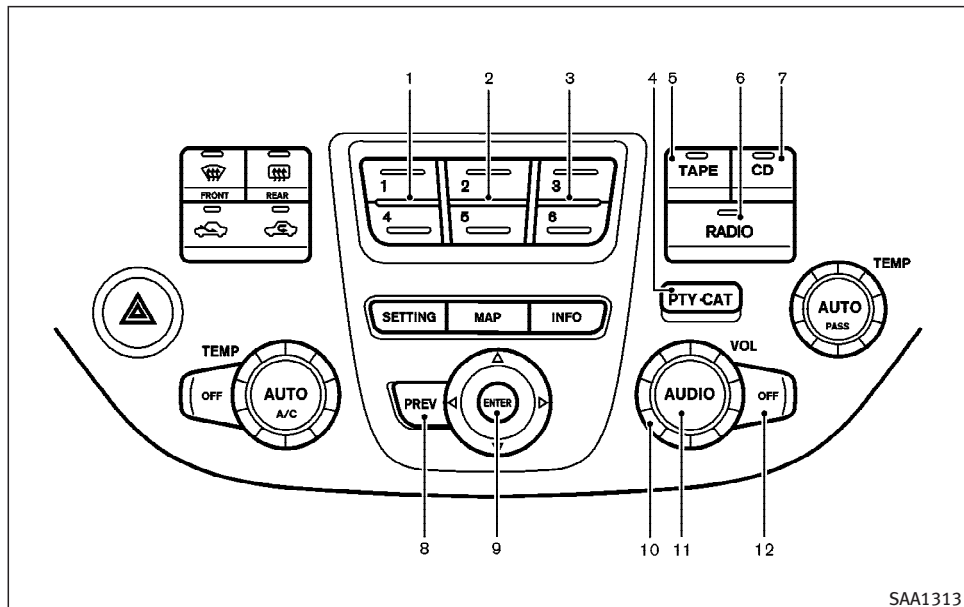
head cleaning tape. If the residue is not removed periodically, the player may need to be disassembled for cleaning.



Compact Disc (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 inches (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.
 - 8 cm (3.1 in) discs with an adapter
 - CDs that are not round
 - CDs with a paper label
 - CDs that are warped, scratched, or have abnormal edges

FM-AM-SAT RADIO WITH CASSETTE PLAYER AND COMPACT DISC (CD) CHANGER



1. Audio control buttons “1”, “4”
2. Audio control buttons “2”, “5”
3. Audio control buttons “3”, “6”
4. “PTY-CAT” program type and category select button
5. “TAPES” tape play button
6. “RADIO” AM, FM1/FM2, SAT1/SAT2 band select button
7. “CD” compact disc play button
8. “PREV” previous button
9. JOYSTICK and “ENTER” push button
10. Volume control knob
11. “AUDIO” on button
12. “OFF” audio off button

SAA1313

Audio main operation

Satellite radio:

The satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed.

It may take some time to receive the activation signal after subscribing to the XM[®] or SIRIUS[™] satellite radio provider. 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.

Satellite radio is not available in Alaska and Hawaii.

Head unit:

The radio has an FM diversity reception system, which employs two antennas printed on the rear window. This system automatically switches to the antenna which is receiving less interference.

The tape deck employs a permalloy head which allows for improved reproduction of high frequency ranges. Noise is also greatly reduced by the use of the Dolby B NR (Noise Reduction) system. The auto loudness circuit enhances the low fre-

quency range automatically in both radio reception and tape and CD playback.

ON-OFF/Volume control:

Turn the ignition key to ACC or ON, and then push the “**AUDIO**” on button while the system is off to call up the mode (radio, tape or CD) which was playing immediately before the system was turned off. While the system is on, pushing the “**OFF**” button turns the system off.

Turn the volume control knob to adjust the volume.

Adjusting tone quality and speaker balance:

To adjust Bass, Treble, Balance and Fader, refer to “How to use the **SETTING** button” earlier in this section.

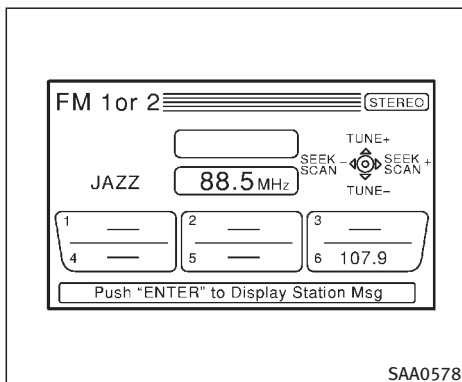
Audio display

“**RADIO**” button:

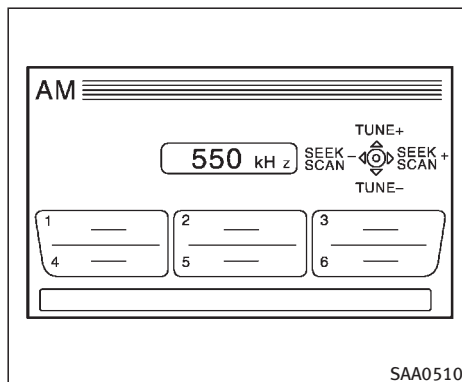
When the “**RADIO**” button is pushed, the following display will appear on the screen, and AM, FM1/FM2 or SAT1/SAT2 will play.

When the radio text message ‘Push “**ENTER**” to Display Station Msg.’ is shown at the bottom of the audio display, radio station related new information will be up-

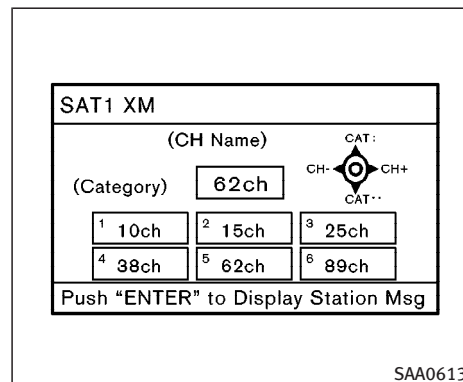
dated and displayed if the “**ENTER**” button is pushed and held.



FM



AM







SAT



FM/AM display:

“” – Use the joystick

Up or down: Tuning  or 

Right or left (for less than 1.5 seconds):
Seek  or  to the next available station.

Right or left (for more than 1.5 seconds):
Scan  or  to the next available station.

“” to “” Memory stations

To program a station to memory (radio preset), tune the radio to the station you


want to “memorize”. Push down and hold the desired audio control button (1 - 6). A beep sound will be heard if it is set. The station is now “memorized” to that audio control button.

SAT display (if so equipped):

The satellite radio mode will be skipped unless an optional satellite receiver and antenna are installed.

The XM name and related logos are registered trademarks of XM Satellite Radio inc. SIRIUS and related marks are trademarks of Sirius Satellite Radio Inc. All rights are reserved.

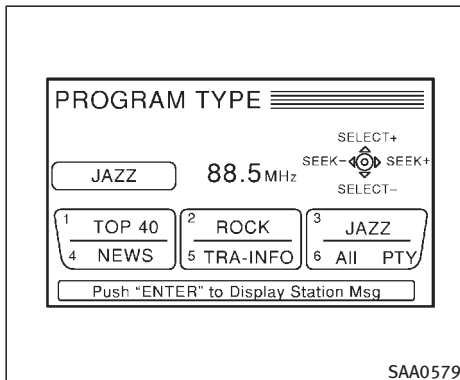
When the “**RADIO**” button is pushed, the following display will appear on the screen, and AM, FM1/FM2 or SAT1/SAT2 will play. SAT 1 presets 1-6 and SAT 2 presets 1-6 are also available.

“  ” — Use the joystick to select satellite radio channel

Right or left: Select the desired satellite radio channel. Holding it will continue the channel change.

Up or down: Change the satellite radio category. (for example: ROCK, JAZZ, NEWS ...)

“PTY-CAT” — In SAT mode, use to change the preset mode to category presets. To scroll channels within a preset category, push the preset button.




“PTY-CAT” program type and category select button:

When the “PTY-CAT” button is pushed during FM mode, the PROGRAM TYPE screen will appear.

When the “PTY-CAT” button is pushed during the satellite radio mode, the CATEGORY screen will appear. Pushing the “PTY-CAT” button repeated will change the category (upside only).

The PTY name can be selected as follows and the radio goes into the PTY interruption

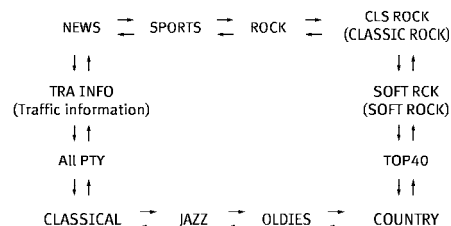
standby mode and the PTY name or frequency is displayed.

“  ” — Use the joystick to select PTY station or category:

Up or down: Select the PTY name or category.

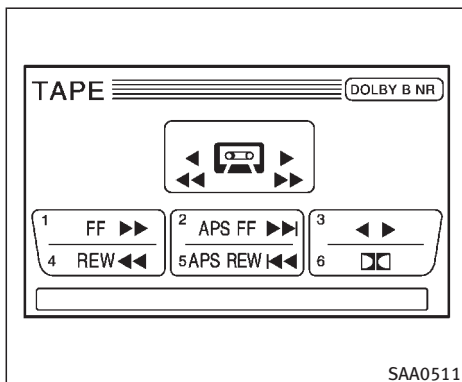
Right or left: Seek the desired PTY station.

“PTY” station names



“ ” to “ ”: memory PTY stations

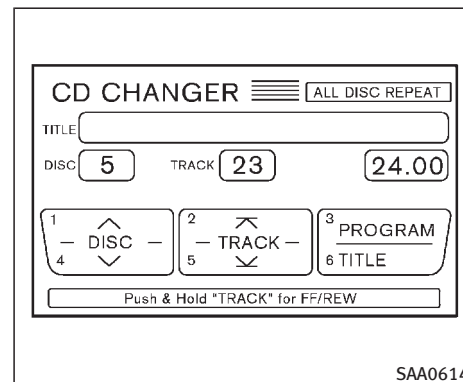
To add PTY stations to memory, hold the desired audio control button (1 - 6) (until a beep sound is heard).



“2”, “5”— “APS FF” (automatic program search (APS) FF), “APS REW” (APS REW) button

“3”— “◀▶” program button

“6”— “DB NR” Dolby B NR (Noise Reduction) button



“CD” button:

When the “CD” button is pushed, the CD CHANGER screen will appear and, if a CD is inserted into the CD changer, the CD will play.

For the CD insertion procedure, see “Compact disc (CD) changer operation” later in this section.

“1”, “4”— “⬆” (CD disc up), “⬇” (CD disc down) button

“TAPE” button:



If a tape is inserted into the tape player, the TAPE screen will appear and the tape will play.

For the tape insertion procedure, see “Cassette tape player operation” later in this section.


Audio control button

“1”, “4”— “FF” (fast forward), “REW” (rewind) button

“**2**”, “**5**”— Push the “**2**” or “**5**” button for less 1.5 seconds.

“” track up,
“” track down
button

“**2**”, “**5**”— Push the “**2**” or “**5**” button for more than 1.5 seconds.

“” fast forward
button

“” rewind button

“**3**”— “**PROGRAM**” button

The play pattern repeatedly will change as follows:

ALL DISC REPEAT → 1 DISC REPEAT → 1
TRACK REPEAT → ALL DISC RANDOM → 1
DISC RANDOM → ALL DISC REPEAT

“**6**”— “**TITLE**” button

Pushing the “**TITLE**” button will change the display from CD changer to disc and track title when the CD is programmed with the text.

FM-AM radio operation

“**RADIO**” band select:

Pushing the “**RADIO**” band select button will change the band AM, FM1/FM2 or SAT1/SAT2.

When “**RADIO**” band select button is pushed while the ignition switch is in the ACC or ON, the radio will come on at the station last played.

The last station played will also come on when the “**AUDIO**” button is pushed to ON.

If another audio source is playing when the “**RADIO**” band select button is turned to ON, the other audio source will automatically be turned off and the last radio station played will come on.

The FM stereo indicator STEREO will glow during FM stereo reception. When the stereo broadcast signal is weak, the radio will automatically change from stereo to monaural reception.



TUNE (Tuning):

To change the radio frequency or PTY name, move the joystick up (+) or down (-).



WARNING

The radio should not be tuned while driving so full attention may be given to vehicle operation.



SEEK/SCAN tuning:

SEEK tuning

Move the joystick left or right for less than 1.5 seconds. SEEK tuning begins from high to low or low to high frequencies and stops at the next broadcasting station or seek tuning begins for the PTY selected name.

SCAN tuning

Move the joystick left or right for more than 1.5 seconds. SCAN tuning begins from high to low or low to high frequencies and stops at each broadcasting station for 5 seconds. Moving the joystick again during this 5 second period will stop SCAN tuning and the radio will remain tuned to that station.

If the joystick is not moved within 5 seconds, SCAN tuning moves to the next station.

Station memory operations:

Twelve stations can be set for the FM band (six for FM1, six for FM2).

Six stations can be set for the AM band.

1. Tune to the desired station using the joystick (SEEK/SCAN or TUNE).
2. Push and hold the desired audio control button (1 - 6). A beep sound will be heard if it is set.
3. The band indicator will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse blows, the radio memory will be erased. In that case, reset the desired stations.

Satellite radio operation (if so equipped)

Satellite radio mode select:

Pushing the **“RADIO”** button will change the satellite radio mode SAT1 or SAT2. The satellite radio mode will be skipped unless

an option satellite receiver and antenna are installed.

To establish a contract and service, contact XM[®] Satellite Radio at 1-800-852-9696 or <http://xmradio.com> or SIRIUS Satellite Radio at 1-800-539-7474 or <http://www.sirius.com>.

When **“RADIO”** button is pushed while the ignition switch is in the ACC or ON, the radio will come on at the channel last played.

The last station played will also come on when the **“AUDIO”** button is pushed to ON.

If another audio source is playing when the **“RADIO”** button is turned to ON, the other audio source will automatically be turned off and the last radio channel played will come on.



CHANNEL change:

To change the satellite radio channel, move the joystick right (+) or left (-), to the desired satellite radio channel.

To continuously change the channel quickly, move the joystick and hold it.



WARNING

The radio should not be tuned while driving so full attention may be given to vehicle operation.



CHANGE satellite radio category:

To change the satellite radio category (for example: ROCK, JAZZ, NEWS ...), when satellite radio mode appears on the screen, move the joystick up (+) or down (-).

“PTY-CAT” mode:

- To change the display mode from satellite radio mode to category mode, push the **“PTY-CAT”** button. Current category mode will appear on the screen.
- To select the category, move the joystick right or left, or push the **“PTY-CAT”** button (**“PTY-CAT”** button is only for seeking the category).
- To select the channel within the category, move the joystick up (+) or down (-).

Display mode:

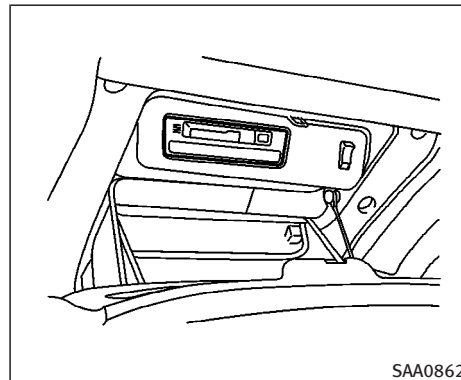
- To display the information (for example, title, artist name) of the satellite channel, push the “ENTER” button. For more information, move the joystick down. Move the joystick up to go back to information display. To change the display from information to channel and/or category mode, push the “PREV” button.

Station memory operations:

Twelve channels (six for SAT1, six for SAT2) can be set for the satellite radio.

1. Tune to the desired channel using the joystick (SEEK/SCAN or TUNE).
2. Push and hold the desired channel control button (1 to 6) until the sound resumes. (The satellite mutes when the select button is pushed.)
3. The channel indicator will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

If the battery cable is disconnected, or if the fuse blows, the radio memory will be cancelled, in that case, reset the desired channels.



Cassette tape player operation

Turn the ignition key to ACC or ON, and then lightly insert the cassette tape into the tape deck in the glove box. The cassette tape will automatically be pulled into the player.

The radio or CD will turn off (if it is on) and the cassette tape will begin to play.



CAUTION

Do not force the cassette tape into the

tape door. This could damage the player.

If the system is turned off by pushing the audio “OFF” button with the cassette tape still in the player, the tape will resume playing when the system is turned back on.

“TAPE” button PLAY:

- When the “TAPE” button is pushed while the CD is being played in the CD autochanger, the CD will automatically turn off and the tape will turn on.
- If the “TAPE” button is pushed during either the FF, REW, APS FF or APS REW function, the cassette tape enters the normal play mode.

1 **4** **FF (Fast Forward), REW (Rewind):**

Push the “**1**” (fast forward) button to fast forward the tape. To rewind the tape, push the “**4**” (rewind) button. Either the FF or REW symbol illuminates on the right side of the display window.

To stop the FF or REW function, push the “**1**” (fast forward) or “**4**” (rewind) again, or the TAPE button.

2 **5** **APS (Automatic Program Search) FF, APS REW:**

When the “**2**” (APS FF) button is pushed while the tape is being played, the next program on the tape will start to play from the beginning. Push the “**2**” (APS FF) button several times to skip through programs. The tape will advance the number of times the button is pushed (up to nine programs).

When the “**5**” (APS REW) button is pushed once, the program being played starts over from the beginning. Push the “**5**” (APS REW) button several times to skip back several selections. The tape will go back the number of times the button is pushed.

Either the FF or REW symbol flashes on the right side of the display window while searching for the selection.

To stop the APS FF or APS REW function, push the TAPE button.

This system searches for the blank intervals between selections. If there is a blank interval within one program or there is no interval between programs, the system

may not stop in the desired or expected location.

3 “” **Program key:**


Push the “**3**” button to change the tape side while the tape is being played.

The cassette tape will automatically change directions to play the other side when the first side is completed.

If the “**3**” button is pushed during the FF or REW function, the cassette tape enters the normal play mode.

6 “” **Dolby B NR (Noise Reduction) key:**

Push the “**6**” button for Dolby NR encoded tapes to reduce high frequency tape noise. The indicator will come on.

Dolby noise reduction is manufactured under license from Dolby Laboratories Licensing Corporation. Dolby NR and the double-D symbol “” are trademarks of Dolby Laboratories Licensing Corporation.

Metal or chrome tape usage:

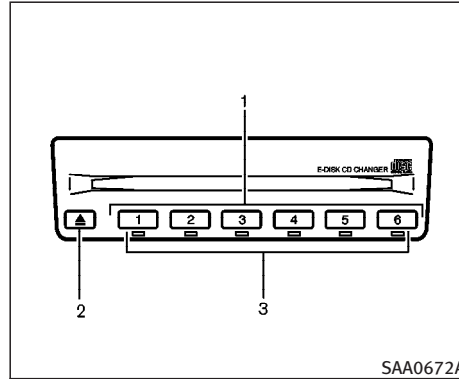
The cassette player will automatically set to high performance play when playing a metal or chrome cassette tape.



TAPE EJECT:

When this button is pushed with the tape loaded, the tape will be ejected.

When the tape is ejected while it is being played, the system will turn off.



1. CD select buttons
2. CD eject button
3. CD indicators

Compact disc (CD) changer operation

Turn the ignition key to ACC or ON.

“CD” button:

When the “CD” button is pushed with the system off and the compact disc loaded, the system will turn on and the compact disc will start to play.

When the “CD” button is pushed with the compact disc loaded but the tape or the radio playing, the tape or radio will automatically turn off and the compact disc will start to play.

Disc insertion:

To insert a CD in the CD changer, select the loading slot by pushing the CD select button (1 to 6). After the slot door opens, insert the CD.



The active CD indicator will turn red. The other CD indicators will be green.

1 4 (“ ^ ” , “ v ” key) Disc up/down:

Use these buttons, to select another CD.

When the “ 1 ” button is pushed, playing switches to the first track on the next disc. The audio output is muted during this operation, and playing begins automatically.

When the “ 4 ” button is pushed, playing switches to the first track on the previous disc. The audio output is muted during this operation, and playing begins automatically.

2 **5** (“”, “” key) Track up/down:

Use these buttons to switch tracks on CDs.

When the “**2**” button is pushed, playing switches to the beginning of the next track. The audio output is muted during this operation, and playing begins automatically.

When the “**5**” button is pushed, playing switches to the beginning of the current track. The audio output is muted during this operation, and playing begins automatically.

If the “**2**” or “**5**” button is pushed for over 1.5 seconds, the sound mutes to low volume and plays at high speed in the forward (or reverse) direction until the button is released.

3 (“PROGRAM” key) program:

Push the “**3**” button to change the playing mode condition as follows.

ALL DISC → 1 DISC → 1 TRACK → ALL DISC
RANDOM → 1 DISC RANDOM → ALL DISC


 **CD EJECT:**

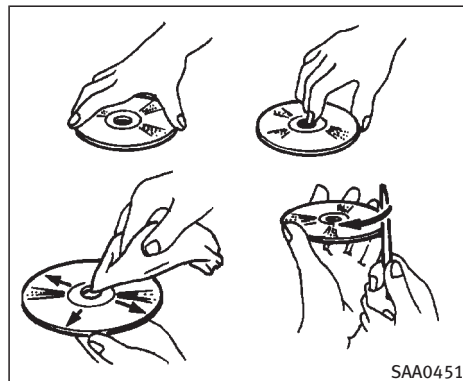
When the CD EJECT button is pushed with the compact disc loaded, the compact disc will be ejected.

To eject the discs selected by the CD select button, push the EJECT button for less than 1.5 seconds.

To eject all the discs, push the EJECT button for more than 1.5 seconds.

If the compact disc comes out and is not removed, it will be pulled back into the slot to protect it.

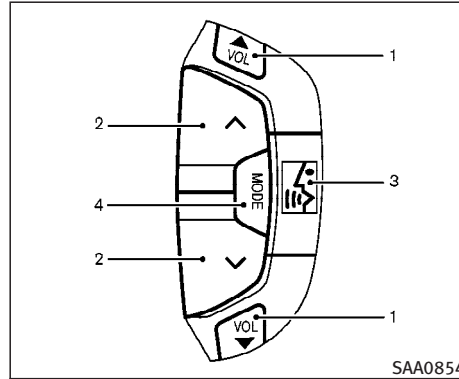
If a CD is ejected by pushing the  button, and it is not taken out from the loading slot, the CD will automatically be reloaded to the slot to protect the CD. (This function will not work for 8 cm diameter CDs.)



CD CARE AND CLEANING

- Handle a CD 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.

- 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.



1. Volume control switch
2. Memory change/Seek and APS switch
3. TALK switch
4. Mode select switch

STEERING WHEEL SWITCH FOR AUDIO

“MODE” select switch

Push the mode select switch to change the mode in the sequence of AM, FM1, FM2, SAT1, SAT2, CD autochanger and Tape.



Volume control switches

Push the upper or lower side switch to increase or decrease the volume.





Tuning



Memory change (radio):

Push the tuning switch “” or “” for less than 1.5 seconds to change the radio frequency.

Seek tuning (radio):

Push the tuning switch “” or “” for more than 1.5 seconds to seek the next or previous radio station.

APS (Automatic Program Search) FF, APS REW (tape or CD changer):

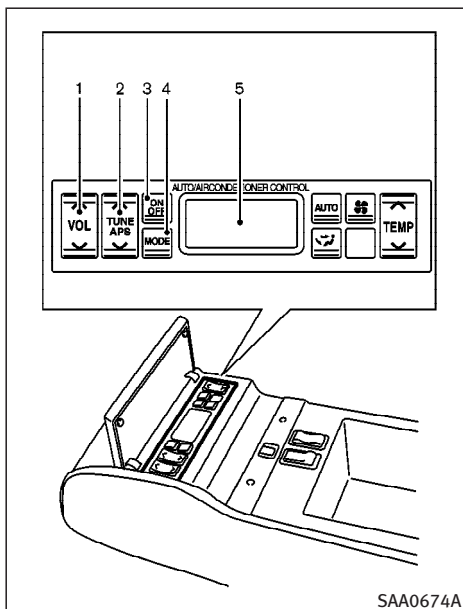
Push the tuning switch “” or “” for less than 1.5 seconds to return to the beginning of the current track or skip to the next track. Push several times to skip back or skip through tracks.

This system searches for the blank intervals between selections. If there is a blank interval within one program or there is no interval between programs, the system may not stop in the desired or expected location.

FF REW (tape or CD changer):

Push the tuning switch “ ∇ ” or “ \wedge ” for more than 1.5 seconds to rewind or fast forward the tape or to change the playing disc up or down.

To stop the FF or REW function, push the switch you pushed for more than 1.5 seconds again.



1. Volume control switch
2. Tuning switch
3. ON/OFF switch
4. Mode select switch
5. Display

REAR CONTROL SWITCHES FOR AUDIO (if so equipped)

The audio system can be operated using the rear control switch.

“ON-OFF” switch

With the ignition key turned to the ACC or ON position, push the “ON-OFF” switch to turn the audio system ON or OFF.

“MODE” select switch

Push the “MODE” select switch to change the mode in the sequence of AM, FM1, FM2, SAT1, SAT2, CD autochanger and tape. When the tape or CD autochanger is loaded, the mode changes to Tape or CD autochanger.



Tuning switch




Memory change (radio):

Push the tuning switch “ ∇ ” (rear) or “ \wedge ” (front) for less than 1.5 seconds to change the radio frequency.

Seek tuning (radio):



Push the tuning switch “ ∇ ” or “ \wedge ” for more than 1.5 seconds to seek the next or previous radio station.

APS (Automatic Program Search) FF, APS REW (tape or CD changer):

Push the “” switch “” or “” for less 1.5 seconds to return to the beginning of the present program or skip to the next program. Push several times to skip back or skip through programs.



This system searches for the blank intervals between selections. If there is a blank interval within one program or there is no interval between programs, the system may not stop in the desired or expected location.

FF REW (tape or CD changer):

Push the tuning switch “” or “” for more than 1.5 seconds to rewind or fast forward the tape or to change the playing disc up or down.

To stop the FF or REW function, push the switch you pushed for more than 1.5 seconds again.

Volume control switch

Push the “” (front) side or “” (rear) side of the switch to adjust the volume.

“” Front side: Volume increases

“” Rear side: Volume decreases

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.

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.



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.



CAUTION

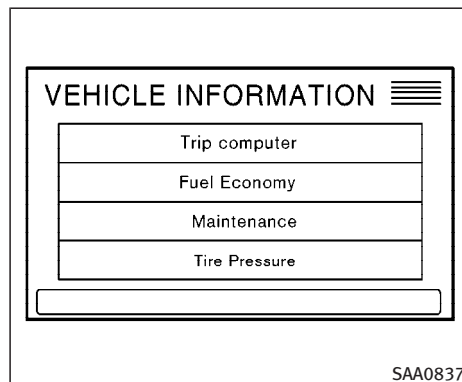
- Keep the antenna as far away as possible from the electronic control modules.

- 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 dealer.

VEHICLE INFORMATION

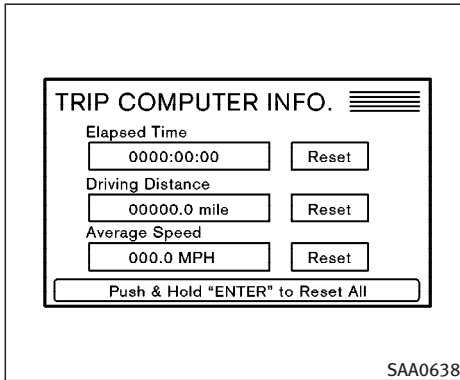
The display screen shows vehicle information for your convenience.

The information shown on the screen should be a guide to determine the condition of the vehicle.



VEHICLE INFORMATION DISPLAY

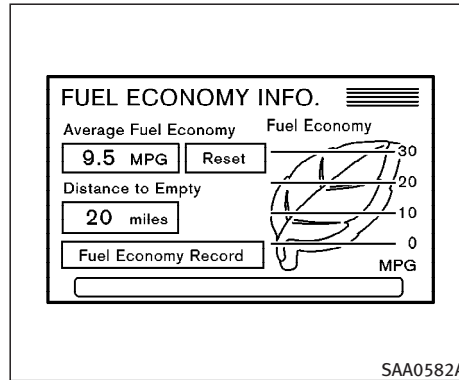
1. Push the **“INFO”** button on the control panel.
The following display will appear.
2. Choose an item using the joystick and push the **“ENTER”** button.
3. After viewing or adjusting the information on the following screens, push the **“PREV”** button to return to the VEHICLE INFORMATION menu.



TRIP COMPUTER INFORMATION

Elapsed Time, Driving Distance and Average Speed will be displayed.

To reset, use the joystick to highlight the **“Reset”** key and push the **“ENTER”** button immediately before driving the vehicle.

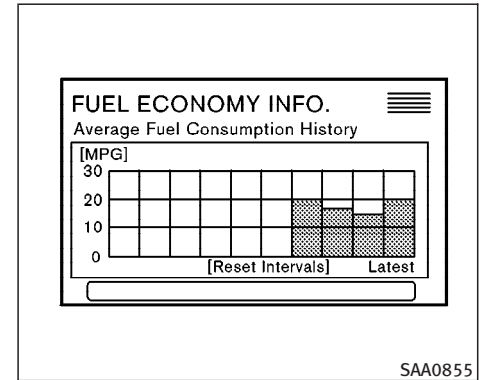


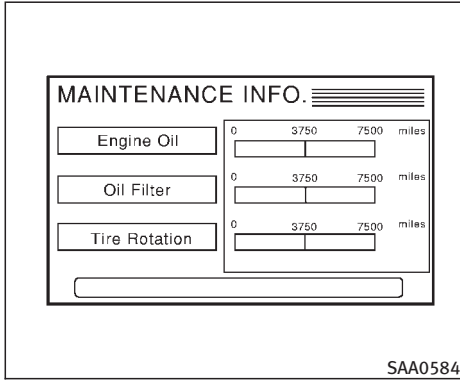
FUEL ECONOMY INFORMATION

Average fuel economy and distance to empty will be displayed for reference.

To reset the Average Fuel Economy, use the joystick to highlight the **“Reset”** key and push the **“ENTER”** button.

If the **“Fuel Economy Record”** key is highlighted with the joystick and the **“ENTER”** button is pushed, the average fuel consumption history will be displayed in graph form along with the average for the previous Reset-to-Reset period.



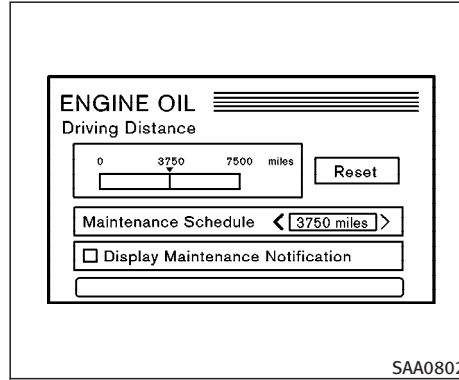


MAINTENANCE INFORMATION

To set the maintenance interval for the Engine Oil, Oil Filter or Tire Rotation, choose an item using the joystick and push the “**ENTER**” button.

You can also set to display a message to remind you that the maintenance needs to be performed.

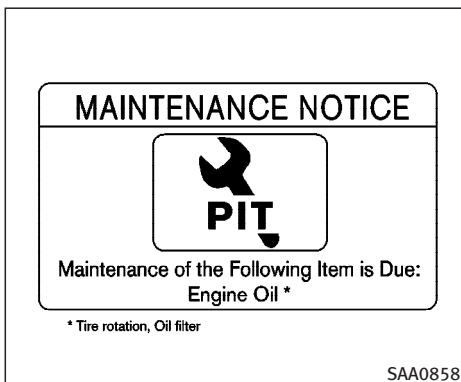
The following example shows how to set the engine oil change interval. Use the same steps to set the other maintenance information.



1. Reset the driving distance to the new maintenance schedule.
2. Set the interval (mileage) of the maintenance schedule. To determine the recommended maintenance interval, refer to your “INFINITI Service and Maintenance Guide”.
3. To display the MAINTENANCE INFORMATION automatically when the set trip distance is reached, highlight the “**Display Maintenance Notification**” key with the joystick and push the “**ENTER**” button.

4. To return the display to MAINTENANCE INFO., push the “**PREV**” button.

Maintenance information display cannot be operated when the vehicle is moving. Stop the vehicle in a safe place to see the information.



The “MAINTENANCE NOTICE” screen displays each time the key is turned ON until one of the following conditions are met:

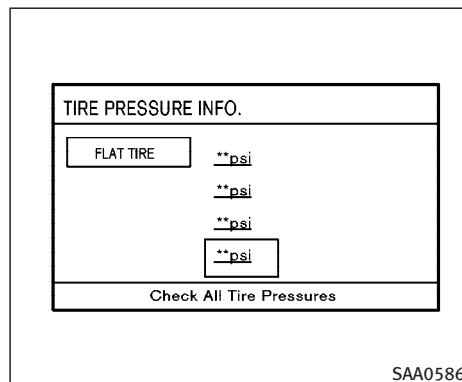
- “RESET” is selected.
- “Display Maintenance Notification” is set OFF.
- the maintenance interval is set again.

MAINTENANCE NOTICE

The “MAINTENANCE NOTICE” screen (“ENGINE OIL”, “TIRE ROTATION” or “OIL FILTER”) will be automatically displayed as shown when both of the following conditions are met:

- the vehicle is driven the set distance and the ignition key is turned OFF.
- the ignition key is turned ON the next time the vehicle will be driven.

To return to the previous display after the “MAINTENANCE NOTICE” screen is displayed, push the PREV button.



TIRE PRESSURE INFORMATION

To view “Tire Pressure” information, push the “INFO” button, select “TIRE PRESSURE” using the joystick and push the “ENTER” button.

Pressure indication in ** psi on the screen indicates that the pressure is being measured. After a few driving trips, the pressures for all 4 tires will be displayed.

The order of tire pressure figures displayed on the screen does not correspond with the actual order of the tire position.

Tire pressure rises and falls depend on heat by vehicle's traveling condition and ambient temperature.

In case of low tire pressure, a message is displayed on the screen:

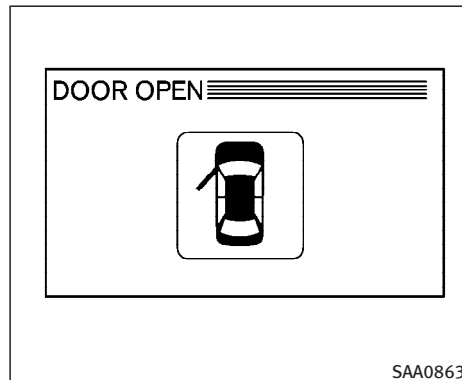
FLAT TIRE — low tire air pressure



WARNING

- When the low tire pressure warning light is on and/or a **WARNING** is displayed on the screen, check all tire pressures. Please refer to the “6. In case of emergency” section for repairing.
- If the system is malfunctioning, a **WARNING** for tire pressure will be indicated on the display. To confirm the details, push the “ENTER” button.
- When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated, the Tire Pressure Monitoring System (TPMS) will not function and the low tire pressure warning light will flash. Contact your **INFINITI** dealer 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.



WARNING DISPLAY

This display will appear when the door is not securely closed while driving over 3 MPH (5 km/h).

This display will disappear when the vehicle speed slows down under 3 MPH (5 km/h) even if the door is not securely closed yet.

Make sure to stop the vehicle and close the door securely.

The “Low washer fluid” display will also appear when the washer fluid level becomes low. Refill the fluid when this display appears. See “8. Maintenance and do-it-yourself” for refilling.

BLUETOOTH® HANDS-FREE PHONE SYSTEM WITH INFINITI VOICE RECOGNITION



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 a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.



CAUTION

To avoid draining the vehicle battery, use a phone after starting the engine.

Your INFINITI is equipped with the 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 hands-free telephone

call with your cellular phone in the vehicle.

Once your cellular phone is paired to the in-vehicle phone module, no other phone connecting procedure is required. Your phone is automatically connected with the in-vehicle phone module when the ignition switch is turned to the ON position with the paired cellular phone turned on and carried in the vehicle.

You can register up to 5 different Bluetooth® cellular phones to the in-vehicle phone module. However, you can talk on only one cellular phone at a time.

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 hands-free phone system.
- Some Bluetooth® enabled cellular phones may not be recognized by the in-vehicle phone module. Please visit www.infiniti.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, near a tall building or in a mountainous area.
 - Your cellular phone is locked to prevent it from being 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.

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 hands-free phone system seems to be malfunctioning, please refer to "Troubleshooting guide" later in this sec-

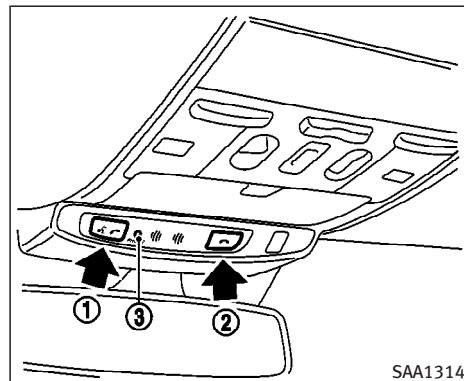
tion. You can also visit www.infiniti.com/bluetooth for troubleshooting help.

Refer to the cellular phone Owner's Manual regarding the telephone charges, cellular phone antenna and body, etc.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 8 inch (20 cm) between the radiator and your body. This Transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.



CONTROL BUTTONS


The control buttons for the Bluetooth® Hands-Free Phone System are located on the overhead console.

TALK/PHONE SEND

Push the button ① 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. See "List of voice commands" and "During a call" later in this section for more information.

PHONE END

Push the  button ② to cancel a VR session or end a call.


The Bluetooth® indicator light ③ informs you of the operational status of the system by lighting.

USING THE SYSTEM

The INFINITI Voice Recognition system allows hands-free operation of the Bluetooth® Phone System.

If the vehicle is in motion, some commands may not be available so full attention may be given to vehicle operation.

Initialization


When the ignition switch is turned to the ON position, INFINITI Voice Recognition is initialized, which takes a few seconds. When completed, the amber light ③ on the overhead console illuminates and the system is ready to accept voice commands. If the  button ① is pushed before the initialization completes, the system will announce “Hands-free phone system not ready” and will not react to voice commands.

Operating tips


To get the best performance out of the INFINITI Voice Recognition system, observe the following:

- Keep the interior of the vehicle as quiet as possible. Close the windows to eliminate surrounding noises (traffic noises, vibration sounds, etc.), which may prevent the system from recognizing voice commands correctly.
- Wait until the tone sounds before speaking a command. Otherwise, the command will not be received properly.
- Start speaking a command within 5 seconds after the tone sounds.
- Speak in a natural voice without pausing between words.

Giving voice commands

To operate INFINITI Voice Recognition, push and release the  button ① located on the overhead console. The light ③ on the overhead console flashes to signal you have entered a voice recognition (VR) session. After the tone sounds, speak a command.

The command given is picked up by the microphone, and voice feedback is given when the command is accepted.

- If you need to hear the available commands for the current menu again, say “Help” and the system will repeat them.
- If a command is not recognized, the system announces, “Command not recognized. Please try again.” Repeat the command in a clear voice.
- If you want to go back to the previous command, you can say “Go back” or “Correction” anytime the system is waiting for a response.
- You can cancel a command when the system is waiting for a response by saying, “Cancel” or “Quit.” The system announces “Cancel” and ends the VR session. You can also push the  button ② on the overhead console at any time. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.
- If you want to adjust the volume of the voice feedback, push the volume control switches (+ or -) on the steering

wheel while being provided with feedback. You can also use the radio volume control knob.

How to say numbers

INFINITI Voice Recognition requires a certain way to speak numbers in voice commands. Refer to the rules and examples below.

- Either “zero” or “oh” can be used for “0”.

Example: 1-800-662-6200

— “One eight oh oh six six two six two oh oh”, or

— “One eight zero zero six six two six two oh oh”

- Words can be used for the first 4 digits places only.

Example: 1-800-662-6200

— “One eight hundred six six two six two oh oh”,

— NOT “One eight hundred six six two sixty two hundred, and

— NOT “One eight oh oh six six two sixty two hundred.

- Numbers can be spoken in small groups. The system will prompt you to continuing entering digits, if desired.

Example: 1-800-662-6200

— “One eight oh oh”

The system repeats the numbers and prompts you to enter more.

— “six six two”

The system repeats the numbers and prompts you to enter more.

— “six two oh oh”

- You can say “Star” for * and “Pound” for # at anytime in any position of the phone number.

Example: 1-555-1212 *123

— “One five five five one two one two star one two three”

NOTE:

For best results, say phone numbers as single digits.

GETTING STARTED





The following procedures will help you get started using the Bluetooth® Hands-Free Phone System with INFINITI Voice Recog-

nition. For additional command options, refer to “List of voice commands” later in this section.

Choosing a language

You can interact with the Bluetooth® Hands-Free Phone System using English, Spanish or French.



To change the language, perform the following.



1. Press and hold the  button for more than 5 seconds.
2. The system announces: “Press the PHONE SEND () button for the hands-free phone system to enter the speaker adaptation mode or press the PHONE END () button to select a different language.”
3. Press the  button.

For information on speaker adaptation, see “Speaker adaptation (SA) mode” later in this section.

4. The system announces the current language and gives you the option to change the language to Spanish (in Spanish) or French (in French). Use the following chart to select the language.

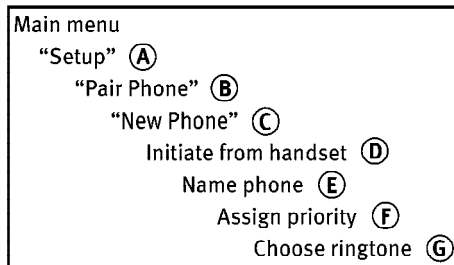
NOTE:


Note: You must press the  button or the  button within 5 seconds to change the language.

Current language	Press  (TALK/PHONE SEND) to select	Press  (PHONE END) to select
English	Spanish	French
Spanish	English	French
French	English	Spanish

5. If you decide not to change the language, do not press either button. After 5 seconds, the VR session will end, and the language will not be changed.

Pairing procedure



1. Push the  button on the overhead console. The system announces the available commands.
2. Say: "Setup" (A). The system acknowledges the command and announces the next set of available commands.
3. Say: "Pair phone" (B). The system acknowledges the command and announces the next set of available commands.
4. Say: "New phone" (C). The system acknowledges the command and asks you to initiate pairing from the phone handset (D).
5. When you are asked to enter a PIN code for pairing your Bluetooth® cellular

phone, operate it to enter the code "1234".

The code is always "1234" regardless of the number of phones paired.

The pairing procedure of the cellular phone varies according to each cellular phone manufacturer. See the cellular phone Owner's Manual for details. You can also visit www.infiniti.com/bluetooth for instructions on pairing INFINITI recommended cellular phones.

6. The system asks you to say a name for the phone (E).

If the name is too long or too short, the system tells you, then prompts you for a name again.

Also, if more than one phone is paired and the name sounds too much like a name already used, the system tells you, then prompts you for a name again.


7. The system asks you to assign a priority level (F). The priority level determines which phone is active when more than one paired Bluetooth® phone is in the vehicle. Follow the instructions provided by the system or refer to "Setup"

later in this section for more information on changing priorities.

8. The system will ask if you would like to select a custom ring tone (G). Follow the instructions provided by the system or refer to “Setup” later in this section for more information on selecting ringtones.

Making a call by entering a phone number


Main menu
“Call” (A)
Number (speak digits) (B)
“Dial” (C)


1. Push the  button on the overhead console. A tone will sound.
2. Say: “Call” (A). The system acknowledges the command and announces the next set of available commands.
3. Say the number you wish to call (B). For example, 555-1212 can be said as “five five five one two one two.” See “How to say numbers” earlier in this section for more information.

4. When you have finished speaking the phone number, the system repeats it back and announces the available commands.
5. Say: “Dial” (C). The system acknowledges the command and makes the call.


For additional command options, see “List of voice commands” later in this section.

Receiving a call

When you hear the ring tone, press the  button on the overhead console.

Once the call has ended, press the  button on the overhead console.


NOTE:

If you do not wish to take the call when you hear the ring tone, press the  button on the overhead console.

For additional command options, see “List of voice commands” later in this section.

LIST OF VOICE COMMANDS

Main menu
“Call”
“Phone Book”
“Memo Pad”
“Setup”

When you push and release the  button on the overhead console, you can choose from the commands on the Main Menu. The following pages describe these commands and the commands in each sub-menu.

Remember to wait for the tone before speaking.



You can say “Help” to hear the list of commands currently available anytime the system is waiting for a response.

If you want to end an action without completing it, you can say “Cancel” or “Quit” at anytime the system is waiting for a response. The system will end the VR session. Whenever the VR session is cancelled, a double beep is played to indicate you have exited the system.

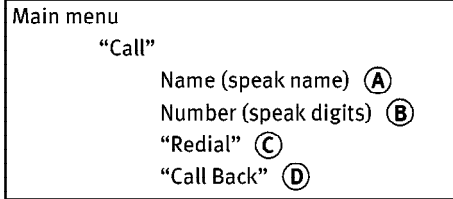
If you want to go back to the previous

command, you can say “Go back” or “Correction” anytime the system is waiting for a response.

When you get used to the menus in the system, you can talk ahead by saying more than one command at a time. For example, say, “Call five five five one two one two” or “Memo pad record.”

Also, when you get used to the system responses, you can skip ahead to the tone by pressing the  button on the overhead console. However, if you press the  button when the system is waiting for a response from you it will end the VR session.

“Call”



Name (speak name) (A)

If you have stored entries in the Phone Book, you can dial a number associated

with a name and location.

See “Phone book” later in this section to learn how to store entries.

When prompted by the system, say the name of the phone book entry you wish to call. The system acknowledges the name.

If there are multiple locations associated with the name, the system asks you to choose the location.

Once you have confirmed the name and location, the system begins the call.

Number (speak digits) (B)

When prompted by the system, say the number you wish to call. Refer to “How to say numbers” and “Making a call by entering a phone number” earlier in this section for more details.

“Redial” (C)

Use the Redial command to call the last number that was dialed within the vehicle.

NOTE:

The system will not redial the last number dialed by the handset keypad.

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.

“Call back” (D)

Use the Call Back command to dial the number of the last incoming call within the vehicle.

The system acknowledges the command, repeats the number and begins dialing. If a call back number does not exist, the system announces, “There is no number to call back” and ends the VR session.

During a call

During a call there are several command options available. Press the  button on the overhead console to mute the receiving voice and enter commands.

- “Help” — The system announces the available commands.
- “Go back/Correction” — The system announces “Go back,” ends the VR session and returns to the call.
- “Cancel/Quit” — The system announces “Cancel,” ends the VR session and returns to the call.

- “Send/Enter/Call/Dial” — Use the Send command to enter numbers during a call. For example, if you were directed to dial an extension by an automated system:

Say: “Send 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.

- “Transfer call” — Use the Transfer Call command to transfer the call from the Bluetooth® Hands-Free Phone System to the cellular phone when privacy is desired.

The system announces, “Transfer call. Call transferred to privacy mode.” The system then ends the VR session.

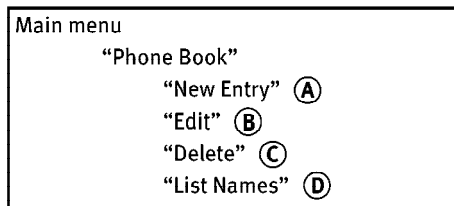
You can also issue the Transfer Call command again to return to a hands-free call through the vehicle.

- “Mute” — Use the Mute command to mute your voice so the other party cannot hear it. Use the mute command again to unmute your voice.

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 book”



The Phone Book stores up to 40 names for each phone paired with the system. Each name can have up to 4 locations/phone numbers associated with it.

NOTE:

Each phone has its own separate phone book. You cannot access Phone A’s phone book if you are currently connected with Phone B.

“New entry” (A)

Use the New Entry command to store a new name in the system.

When prompted by the system, say the name you would like to give the new entry.

For example, say: “Mary.”

If the name is too long or too short, the system tells you, then prompts you for a name again.

Also, if the name sounds too much like a name already stored, the system tells you, then prompts you for a name again.

Once the system accepts the name and you confirm it is correct, the system asks for a location (Home, Office, Mobile or Other).

For example, say: “Home.”

The system acknowledges the location and asks for a number.

For example, say: “five five five one two one two.” See “How to say numbers” earlier in this section for more information.

The system repeats the number and prompts you for the next command. When you have finished entering numbers, choose “Store.”

The system confirms the name, location and number. The system then asks if you would like to store another location for the same name. If you do not wish to store another location, the system ends the VR session.

“Edit” (B)

Use the Edit command to alter an existing phone book entry or to add a 2nd, 3rd or 4th phone number to an existing entry.

When prompted by the system, say the name of the entry you wish to edit.

The system acknowledges the name and asks you for the location you would like to edit.

Say the name of the location. The system acknowledges and asks you for the phone number you would like to store with this location.

See “How to say numbers” earlier in this section for more information.

The system repeats the number and prompts you for the next command. When you have finished entering numbers, choose “Store.”

The system confirms the name, location and number, then announces that the entry

has been stored. The system then ends the VR session.

“Delete” (C)

Use the Delete command to erase one entry from the phone book, all entries from the phone book, the current redial number or the current call back number.

To delete entries from the phone book, say a name or “All entries” when prompted by the system.

The system acknowledges the command and asks you to confirm the deletion.

To delete the current redial number or call back number, say “redial number” or “call back number” when prompted by the system.


If a redial number or a call back number exists, the system deletes them without asking for confirmation.

If there is no number for the entry you are trying to delete, the system says so and ends the VR session.

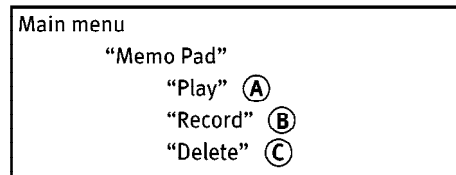
“List names” (D)

Use the List Names command to hear all the names and locations in the phone book.

The system recites the phone book entries but does not include the actual phone numbers. When the playback of the list is complete the system ends the VR session.

You can stop the playback of the list at any time by pressing the  button on the overhead console. The system ends the VR session.

“Memo pad”



The Memo Pad records a maximum of 3 voice memos, each up to 20 seconds long.



“Play” (A)

The system plays back all the memos in the order of newest to oldest. The system ends the VR session.

If there are no memos recorded, the system announces “No messages to play.” The system ends the VR session.

“Record” **B**

The system announces “Recording” and a tone sounds signaling you to begin.

Speak the information you wish to record clearly. When you are done, press the  or  button on the overhead console.

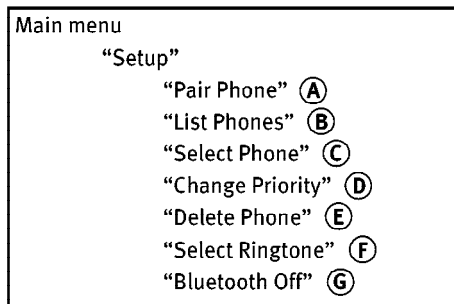
A tone sounds and the system announces “Memo recorded.” Another tone sounds to end the VR session.

If the memo pad is full, the system asks if you wish to record over the oldest memo.

“Delete” **C**

The Delete command erases all memos. The system asks you to confirm this action before deleting all memos.

“Setup”



Use the Setup command to change options associated with the Bluetooth[®] Hands-Free Phone System.

“Pair phone” **A**

Use the Pair Phone command to pair a phone to the Bluetooth[®] Hands-Free Phone System.

When you are asked to enter a PIN code for pairing your Bluetooth[®] cellular phone, operate it to enter the code “1234”.

The code is always “1234” regardless of the number of the phones paired.

Up to 5 phones can be paired. If you try to pair a sixth phone, the system announces

that you must first delete one phone or replace an existing phone.

If you try to pair a phone that has already been paired to your vehicle’s system, the system announces the name the phone is already using. The pairing procedure will then be cancelled.

When prompted by the system, choose from the following commands:

- “New phone” — Refer to “Pairing a phone” earlier in this section.
- “Replace phone” — The system announces the names of the phones already paired and asks which you would like to replace.

Once you say the name of the phone you wish to replace, the pairing procedure will begin. Refer to “Pairing procedure” earlier in this section.
- “List phone” — See the description below.

“List phones” **B**

Use the List Phone command to hear the names of the phones currently paired. If no phones are paired, the system announces, “No paired phones to list.” The system then ends the VR session.

“Select phone”

Use the Select Phone command to select a phone of lesser priority when two or more phones paired with Bluetooth[®] are in the vehicle at the same time.

The system asks you 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 you select a new phone.

“Change priority”

Use the Change Priority 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

“Delete phone”

Use the Delete Phone command to delete a specific phone or all phones from the 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 you the option to delete a specific phone, all phones or listen to the list again.

Once you chose to delete a phone or all phones, the system asks you to confirm this action.

NOTE:

When you delete a phone, the associated phone book for that phone will also be deleted.

“Select ringtone”

Use the Select Ringtone command to select the tone heard in the vehicle when an incoming call is received.

The system announces the name of the active phone and asks you to choose from the following commands:

- “Ringtone” — The system plays a ringtone and asks if you would like to select that tone. If you say no, the system plays the next ringtone available and continues to cycle through the ringtones until you select one or quit.
- “Silent” — The system asks you to confirm your wish to disable the ringtone.

“Bluetooth[®] off”

Use the Bluetooth[®] Off command to turn off the Bluetooth[®] Hands-free Phone System.

When Bluetooth[®] is off, you will not be able to make or receive calls using INFINITI Voice Recognition. Also, you will not have access to the Phone Book.

You can still use the Memo Pad and access Setup. To turn on the system again, choose the Bluetooth® On command from the Setup command.

SPEAKER ADAPTATION (SA) MODE




Speaker Adaptation allows up to two out-of-dialect users 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 speaker adaptation model for memory A and memory B.


If memory A is available, the system will use memory A to store the model. If memory A is in use and memory B is available, the system will use memory B to store the model. If both of the memory locations are in use, the system will ask the user to select which memory location should be overwritten.

Training procedure


The procedure for training a voice is as follows.

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 and hold the  button for more than 5 seconds.
4. The system announces: "Press the PHONE SEND () button for the hands-free phone system to enter the speaker adaptation mode or press the PHONE END () button to select a different language."


5. Press the  button.

For information on selecting a different language, see "Choosing a language" earlier in this section.

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, the press the  button.
8. The SA 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 speaker adaptation has been completed and the system is ready.

The SA mode will stop if:

- The  button is pressed for more than 5 seconds in SA mode.
- The vehicle is driven during SA mode.
- The ignition switch is turned to the OFF or LOCK position.

Training phrases

During the SA mode, the system instructs the trainer to say the following phrases. (The timing of input phrases is indicated by the system.)

- Phrase 1
- Phrase 2

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.

Symptom	Solution
System fails to interpret the command correctly.	1. Ensure that the command is valid. See “List of voice commands” earlier in this section.
	2. Ensure that the command is spoken after the tone.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level in the vehicle.
	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.
	5. If more than one command was said at a time, try saying the commands separately.
	6. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker. See “Speaker adaptation (SA) mode” earlier in this section.
The system consistently selects the wrong entry from the phone book.	1. Ensure that the phone book entry name requested matches what was originally stored. This can be confirmed by using the “List Names” command. See “Phone book” earlier in this section.
	2. Replace one of the names being confused with a new name.

INFINITI VOICE RECOGNITION SYSTEM

The INFINITI Voice Recognition System provides a safe and convenient way of controlling vehicle systems such as the audio, climate control and navigation (if so equipped). The system is controlled by the TALK switch located on the steering wheel. Voice commands are picked up by a microphone. When giving a command, voice feedback will be heard through the speaker, and messages will be shown on the display. Voice feedback can be turned off. Personal directories of nametags for radio station presets can be created, and spoken command help is provided.

FEATURES

The INFINITI Voice Recognition provides the following features:

- Speaker-independent continuous natural speech recognition engine
- Speaker adaptation or out-of-dialect speakers for two different users
- Audible voice feedback (prompt, error, confirmation, and speaker adaptation dialogue)
- Personal vocabulary (radio nametags, etc.)

- On-line help (general such as “Help”, and more specific such as “Help Radio”)

- Speak in a natural voice without pausing between words.

USING THE SYSTEM

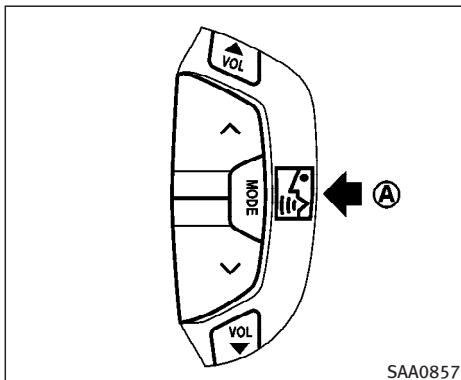
Initialization

When the ignition switch is turned to the ON position, the initialization of the system is carried out, which takes a few seconds. When complete, the system is ready to accept voice commands. If the button is pushed before initialization is complete, the message center display will show “VOICE NOT READY”.

Operating tips

To get the best results from the system, observe the following:

- Close the window before operating the INFINITI Voice Recognition. The system may not be able to recognize voice commands due to surrounding noises (travel noise and vibration). Be sure to operate the system when the vehicle interior is quiet. Set the fan speed to lower than level 3 when operating the TALK switch.
- After pushing the TALK switch, always wait for the beep before speaking.



Giving voice commands

1. Turn the ignition switch to the ON position.
2. Push the instant TALK switch (A) on the steering wheel.
3. The beep will sound.

If the system is processing a command, an error beep will sound and a message such as “COMMAND CANCELED”, will be displayed.

4. If the INFINITI Voice Recognition is activated, “LISTENING” will be displayed on the screen.

5. Speak a command*.

*: Refer to the command list later in this section.

- **If you do not speak a command within 5 seconds, the beep will sound and “NO SPEECH DETECTED” will be displayed on the screen.**
 - **To cancel the command, press the TALK switch again during feedback. The “COMMAND CANCELED” will be displayed on the screen.**
6. If a command is activated, audio and visual feedback will be provided.
 7. To skip the audio feedback for a command, push the TALK switch during feedback.

PERSONAL VOCABULARY

The INFINITI Voice Recognition provides 20 personal nametags that can be associated with radio stations. The maximum length for each nametag is 3.75 seconds.

The INFINITI Voice Recognition provides two personal nametags that can be associ-

ated with speaker adaptation memory locations. The length for each nametag is 3.0 seconds.

HOW TO SAY NUMBERS

Numbers in voice commands must be given as follows. Either “zero” or “oh” can be used for “0”. For information about specific commands, see the Voice command descriptions on the following page.

Radio stations

Radio frequencies should be spoken as follows:

- “Select nine thirty AM”, or “Select nine thirty” (930).
- “Select one thousand” (1000).
- “Select ten forty” (1040).
- “Select thirteen hundred” (1300).
- “Select seventeen ten” (1710).
- “Select ninety seven point nine FM”, or “Select ninety seven point nine” (97.9).
- “Tune one hundred point five” (100.5).
- “Tune one oh one point one FM” (101.1).

Temperatures (climate control)

In climate control commands, say temperatures as in the following examples.

- “Temperature seventy four” (74). — For Fahrenheit (°F)
- “Temperature twenty one point five” (21.5). — For Centigrade (°C)
- “Temperature nineteen point zero”, “Temperature nineteen point oh”, or “Temperature nineteen” (19.0). — For °C

VOICE COMMAND DESCRIPTIONS

In the command descriptions, optional words are shown in square brackets []. Data items that you need to enter, such as phone numbers, are shown in italics. For information on entering numbers in commands, see “How to say numbers”.

General commands

- [VOICE] FEEDBACK ON/OFF
Turns voice feedback successively on and off.
- VOICE DELETE MEMORY A/B
Deletes the trained voice stored in memory A or B.

- VOICE [PLAY] DIRECTORY
Lists the personal nametags stored with each memory location.
- VOICE DELETE DIRECTORY
Deletes the personal nametags stored with each memory location.

Dialog commands

- YES/NO
Confirms a command after the prompt “Please say YES or NO”.
- CANCEL
Cancels a command after the prompt “Please say YES, NO or CANCEL”.
- CORRECT/CORRECTION
To clear the last group of numbers entered when using the phone enter command.
- STORE
To store the phone number, say STORE after entering the phone number.

Help commands

- HELP
Gives spoken information about the voice activation system.

- HELP DIRECTORY
Gives spoken information about the directory voice commands.
- HELP RADIO
Gives spoken information about the radio voice commands.
- HELP RADIO MEMORY
Gives spoken information about the radio memory commands.
- HELP TAPE/CASSETTE
Gives spoken information about the cassette tape voice commands.

Example:

- HELP TAPE
- HELP CASSETTE
- HELP CD [CHANGER/DJ]
Gives spoken information about the CD player voice commands. (if so equipped)
- HELP AUDIO
Gives spoken information about the audio voice commands.
- HELP CLIMATE [CONTROL]
Gives spoken information about the climate control voice commands.

- **HELP DISPLAY**
Gives spoken information about the display commands.
- **HELP VOICE MEMORY**
Gives spoken information about the voice memory commands.
- **HELP NAVIGATION**
Gives spoken information about the navigation commands. (if so equipped)

Radio commands

- **RADIO ON/OFF**
Turns the radio system on or off.
- **RADIO PLAY**
Turns the sound system on. Selects the radio, with the last waveband and station to be played.
- **RADIO SEEK/SEARCH [UP]/[DOWN]**
Seeks up or down the current band until the next station is found.
- **[RADIO] TUNE/SELECT *frequency***
[AM/FM]
RADIO frequency [AM/FM]
Tunes to the frequency given in the command.
The frequency ranges are:
FM bands — 87.9 to 107.9 MHz in steps of 0.2 MHz, and

AM bands — 530 to 1710 kHz in steps of 10 kHz.

Example:

- TUNE NINETY SEVEN POINT NINE (97.9)
- RADIO TUNE TEN FORTY AM
- **[RADIO] TUNE *nametag*, RADIO SELECT *nametag***
Selects the stored station with the *nametag* given in the command. A total of 20 radio *nametags* can be stored.

Example:

- TUNE COUNTRY (*nametag*)
- RADIO SELECT WDET (*nametag*)
- **[RADIO] [TUNE/SELECT]**
PRESET *memory* *number*,
AM/FM/FM1/FM2 PRESET *memory*
number AM/FM/FM1/FM2
Selects the stored station corresponding to the preset number (1 to 6) given in the command.

Example:

- TUNE PRESET ONE FM1
- RADIO SELECT PRESET THREE AM
- PRESET ONE FM1

- **[RADIO] [SELECT] [BAND] AM/FM/FM1/FM2**
Turns to the band given in the command and selects the last station played.

Example:

- RADIO SELECT FM1
- SELECT BAND AM
- **RADIO STORE [NAME]**
Stores the currently selected station, with a *nametag*, in the voice system memory. When prompted, the chosen *nametag* must be spoken, and confirmed. A total of 20 *nametags* can be stored.

The sound system must be in radio mode before giving the Radio Store command.

- **RADIO DELETE *nametag***
Deletes the station and *nametag* corresponding to the *nametag* given in the command from the voice system memory.
- **RADIO DELETE DIRECTORY**
Deletes all currently stored radio stations and their *nametags* from the voice system memory.

- **RADIO [PLAY] DIRECTORY**
Gives a spoken list of station nametags and frequencies currently stored in the voice system memory.

Tape commands

- **TAPE/CASSETTE ON/OFF**
Starts or stops the cassette tape.
- **TAPE/CASSETTE PLAY**
Selects the cassette tape player. Any tape currently loaded will start to play.
- **[TAPE/CASSETTE] REVERSE/CHANGE SIDES**
Reverses the direction of the cassette tape being played. The other side of the tape is played from the current position of the tape.

Example:

- TAPE REVERSE
- CASSETTE CHANGE SIDES
- **[TAPE/CASSETTE] REWIND**
Selects the Rewind mode.
- **[TAPE/CASSETTE] FAST FORWARD**
Selects the Fast Forward mode.

- **TAPE/CASSETTE SEEK/SEARCH [UP]/DOWN**
Seeks up or down the tape to find the next track.
- **[TAPE/CASSETTE] DOLBY ON/OFF**
Selects Dolby on or off.

CD changer commands

- **CD [CHANGER/DJ] ON/OFF**
Starts or stops the CD player.
- **CD [CHANGER/DJ] PLAY**
Selects the CD player, with settings corresponding to the last CD and track to be played.
- **[CD] [CHANGER/DJ] NEXT/PREVIOUS DISC/CD**
[CD] [CHANGER/DJ] DISC/CD UP/DOWN
Selects disc up or down.
- **[CD] [CHANGER/DJ] NEXT/PREVIOUS TRACK**
[CD] [CHANGER/DJ] TRACK UP/DOWN
Selects track up or down.
- **[CD] [CHANGER/DJ] PROGRAM**
Selects normal, 1 disc repeat, 1 track repeat, 1 disc random and all discs random in sequence.

Audio commands

- **AUDIO ON/OFF**
Turn the sound system on or off.
- **[AUDIO/RADIO/TAPE/CD (CHANGER/DJ)] [TONE] BASS UP/DOWN**
Increases or decreases the bass level by 1.
- **[AUDIO/RADIO/TAPE/CD (CHANGER/DJ)] [TONE] TREBLE UP/DOWN**
Increases or decreases the treble level by 1.

Automatic climate control commands

- **[CLIMATE/CLIMATE CONTROL] AUTO-MATIC [ON]**
Turns the climate control system on in automatic mode.
- **CLIMATE-[CONTROL]-[SELECT]/[SELECT]-TEMPERATURE/CLIMATE-[CONTROL]-[SELECT]-TEMPERATURE temperature [DEGREES]**
Set the climate control temperature to the value given in the command.

Example:

- CLIMATE 74 (seventy four)

- SELECT TEMPERATURE 74 FAHRENHEIT
- CLIMATE TEMPERATURE 74
- [CLIMATE]/[CLIMATE CONTROL] TEMPERATURE UP/DOWN

Increases or decreases the temperature setting by 1 degree.

Example:

- CLIMATE TEMPERATURE UP
- CLIMATE TEMPERATURE DOWN
- CLIMATE [CONTROL] ON/OFF
Turns the climate control system on or off.
- [CLIMATE]/[CLIMATE CONTROL] DEFROST/DEFOG [ON]/OFF
Turns the defrost or defog system on or off.

Example:

- CLIMATE CONTROL DEFROG
- CLIMATE DEFROST OFF
- CLIMATE [CONTROL] DUAL [ON]/OFF
Turns dual mode or balance mode on or off.

Example:

- CLIMATE DUAL
- CLIMATE CONTROL OFF

Display commands

- [DISPLAY] [SHOW] PREVIOUS [SCREEN]
Turns the display to the previous display.

Example:

- PREVIOUS
- DISPLAY PREVIOUS
- PREVIOUS SCREEN

Navigation commands (if so equipped)

Refer to the separate Navigation Owner's Manual.

SPEAKER ADAPTATION (SA) MODE

Speaker Adaptation allows up to two out-of-dialect users 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 INFINITI Voice Recognition. The INFINITI Voice Recognition is capable of storing two different speaker adaptation models in the memory location A/B.

If memory A is available, the INFINITI Voice Recognition will use memory A to store the model. If memory A is in use and memory B is available, the INFINITI Voice Recognition will use memory B to store the model. If both of the memory locations are in use, the INFINITI Voice Recognition will ask user to select which memory location should be overwritten.

Training procedure

The procedure for training a voice is as follows.

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. Push and hold the TALK switch for 3 seconds. The display shows ENTERING TRAINING.
4. Voice memory A or B is selected automatically. At this time, "TRAINING MODE VOICE A or B" is displayed.
5. When preparation is complete, push the TALK switch.
6. The SA mode will be explained. Follow the instructions.
7. When the training is finished, "RECORDING COMPLETE" will be displayed.
8. "PLEASE SAY YOUR NAME" will then be displayed. Follow the instructions and register your name.
9. When the registered name is confirmed, "TRAINING COMPLETE" will be displayed, thereby completing the SA mode.

10. The SA mode will stop if any of the following operations is carried out.

- When the TALK switch is pushed for more than 3 seconds in the SA mode
- When the vehicle is driven during the SA mode
- When the key is turned to OFF

Training phrase

During the SA mode, the INFINITI Voice Recognition instructs the trainer to say the following phrases. (The timing of input phrases is indicated by the INFINITI Voice Recognition.)

- temperature eighteen point five degrees
- phone dial memory nineteen
- audio tone treble up
- tune seventeen hundred and ten
- phone enter three zero seven two nine
- radio select hundred and five point one FM
- climate control twenty two point oh degrees
- telephone store zero five four four six

- map route guidance off
- CD changer tone bass down
- tune fourteen ten AM
- navigation cancel route guidance
- telephone dial memory ninety eight
- cassette Dolby on
- display show previous screen
- temperature thirty three point zero degrees
- CDDJ tone treble up
- navigation save present position
- map where am I
- select a hundred and seven point nine FM
- tape fast forward
- telephone enter star zero eight eight nine
- select thirteen hundred fifty AM
- map store current location
- radio twelve eighty AM
- navigation show next intersection
- climate control defrost on

- tune eleven sixty AM
- enter pound nine oh zero one
- CDDJ play
- phone delete directory
- cassette change sides
- radio sixteen forty AM
- tune fifteen hundred seventy
- map voice mute off
- show bird view
- navigation go home
- map zoom in
- radio select preset one FM two
- CD changer disc down

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.

Symptom/error message	Solution
Displays "COMMAND NOT RECOGNIZED" or the system fails to interpret the command correctly.	1. Ensure that the command format is valid, see Command list in this section.
	2. Ensure that the command is given after the tone while "LISTENING" is displayed.
	3. Speak clearly without pausing between words and at a level appropriate to the ambient noise level.
	4. 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.
	5. If optional words of the command have been omitted, then the command should be tried with these in place.
	6. If a number of commands have been given in rapid succession resulting in the message "COMMAND NOT RECOGNIZED" to be displayed, then allow the system to recover (approximately one minute) before trying the command again.
Displays "NO SPEECH DETECTED".	7. If the system consistently fails to recognize commands, the voice training procedure should be carried out to improve the recognition response for the speaker.
	1. Ensure that the command is given after the tone while "LISTENING" is displayed. 2. Ensure that the command is given within a maximum of five seconds from the end of the tone. NOTE: Be sure you know what to say before pushing the Voice button.
Displays "NAMETAG NOT UNIQUE".	1. This response will be received when storing a nametag if the nametag being given has already been stored. This can be confirmed by giving the Radio Directory of Phone Directory command.
	2. If this response is received and the nametag has not been used already, then it is too similar to an existing nametag or voice grammar and an alternative should be used.
The system consistently selects the wrong nametag.	1. Ensure that the nametag requested matches what was originally stored. This can be confirmed by giving the Radio Directory or Phone Directory command.
	2. Delete one of the nametags being confused and replace it with a different nametag.

MEMO

5 Starting and driving

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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 trunk closed, 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 button to off and the fan control at 4 (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.
- If a special body, camper or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. Do not occupy these areas while the engine is running even if the vehicle is parked. Some recreational vehicle appliances such as stoves, refrigerator, heaters, etc. may also generate carbon monoxide.
- The exhaust system and body should be inspected by a qualified mechanic whenever:
 - a. The vehicle is raised for service.
 - b. You suspect that exhaust fumes are entering into the passenger compartment.

- c. You notice a change in the sound of the exhaust system.
- d. 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.



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 dealer.
- Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three-way catalyst.
- Do not race the engine while warming it up.

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.

5-4 Starting and driving

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).
- 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 and voice-activated control systems" section.

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 while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the pressure for all four tires. Adjust the 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 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.)**
- **If your vehicle is equipped with run-flat tires, you can continue driving after you**

have a flat tire. However, remember that vehicle handling stability is reduced, which could lead to an accident and personal injury. See “Wheels and tires” in the “8. Maintenance and do-it-yourself” section for more details and make sure to observe the cautions about run-flat tires. Failure to do so may result in a serious accident.

- 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. Contact your INFINITI dealer 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

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.

FCC Notice:

Changes or modifications not expressly approved by the party responsible 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” 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.

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. You must not 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 differ-

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ently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix!

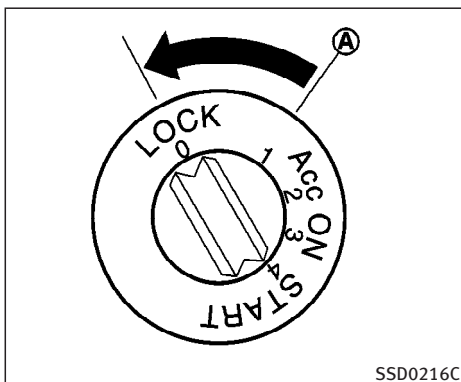
And that's true for drugs too (over the counter, prescription, and illegal drugs). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

IGNITION SWITCH



WARNING

Never remove or turn the key to the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.



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AUTOMATIC TRANSMISSION

The ignition switch is equipped with an anti-theft steering lock device.

The key can only be removed when the ignition switch is in the LOCK position.

The ignition lock is designed so that the key cannot be turned to LOCK and removed until the selector lever is moved to the P (Park) position.

When removing the key from the ignition, make sure the selector lever is in the P (Park) position.

If the selector lever is not returned to P (Park), the key cannot be moved toward LOCK.

When the key cannot be turned toward the LOCK position, proceed as follows to remove the key:

1. Move the selector lever into the P (Park) position.
2. Turn the ignition key slightly in the ON direction.
3. Turn the key toward the LOCK position.
4. Remove the key.

If the key is removed from the ignition switch, the select lever cannot be moved from P (Park). **The selector lever can be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.**

There is an OFF position (A) in between LOCK and ACC, although it does not show on the lock cylinder. When the ignition is in the OFF position the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn clockwise from the straight up position.

To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

Emergency release steering lock

When the battery is discharged, the steering lock may not be released. Proceed as follows to release the steering lock.

1. Remove the emergency key from the electronic ignition key. See “How to use the emergency key” in the “3. Pre-driving checks and adjustments” section.
2. To unlock the steering wheel, insert the emergency key deeply and turn it gently while rotating the steering wheel slightly right and left.

KEY POSITIONS

LOCK Normal parking position (0)

OFF (1)

The engine can be turned off without locking the steering wheel.

The ignition lock is designed so that the key cannot be turned to LOCK and re-

moved until the selector lever is moved to the P (Park) position.

ACC (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running.

ON Normal operating position (3)

This position turns on the ignition system and the electrical accessories.

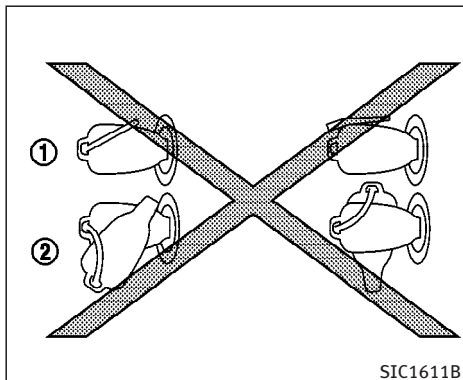
START (4)

This position activates the starter motor, starting the engine.

INFINITI VEHICLE IMMOBILIZER SYSTEM

The INFINITI Vehicle Immobilizer System will not allow the engine to start without the use of the registered INFINITI Vehicle Immobilizer System key (hereafter “Electronic ignition key”).

The engine may not start with the registered electronic ignition key under the following conditions:



- ① If metal contacts the electronic ignition key.
- ② If a device equipped with a transponder contacts the electronic ignition key.

If the engine fails to start using the registered electronic ignition key (for example, when interference is caused by another electronic ignition key, an automated toll road device or automated payment device on the key ring), restart the engine using the following procedures:

1. Leave the ignition switch in the ON position for approximately 5 seconds.

2. Turn the ignition switch to the OFF or LOCK position, and wait approximately 5 seconds.

3. Repeat step 1 and 2.

4. Restart the engine while holding the device (which may have caused the interference) separate from the registered electronic ignition key.

If the no start condition re-occurs, INFINITI recommends placing the registered electronic ignition key on a separate key ring to avoid interference from other transponder equipped devices.

BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle is clear.
- Maintenance items listed here should be checked periodically, for example each time you check engine oil.
- Check that all windows and lights are clean.
- Visually inspect tires for condition. Also check tire pressure.
- 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 key is turned to the ON (3) position.

STARTING THE ENGINE

1. Apply the parking brake.
2. Move the selector lever to P (Park) or N (Neutral). (P preferred.)

The starter is designed not to operate if the selector lever is in one of the driving positions.

3. Crank the engine **with your foot off the accelerator pedal** by turning the ignition key to START. Release the key when the engine starts. 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 hold it then crank the engine. Release the key and 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. Crank the engine for 5 to 6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by turning the ignition key to START. Release the key when the engine starts. If the engine

starts, but fails to run, repeat the above procedure.



CAUTION

Do not operate the starter for more than 15 seconds at a time. If the engine does not start, turn the key off and wait 10 seconds before cranking again, otherwise the starter could be damaged.

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.

DRIVING THE VEHICLE

AUTOMATIC TRANSMISSION

Gate type shift with manual mode

The automatic transmission in your vehicle is electronically controlled by a transmission control module to produce maximum power 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 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 is designed so that the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is ON.

The selector lever cannot be moved out of P (Park) and into any of the other gear positions if the ignition key is turned to the

5-10 Starting and driving

LOCK, OFF or ACC position or if the key is removed from the ignition switch.

1. Keep the foot brake pedal depressed and shift the selector lever into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.



WARNING

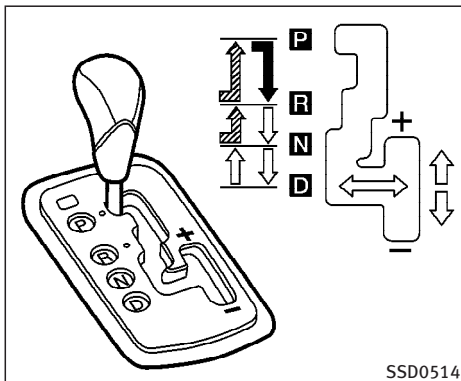
- Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive) or manual shift mode. Always depress the brake pedal until shifting is completed. Failure to do so could cause you to lose control and have an accident.
- Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.
- Never shift to P (Park) or R (Reverse) while the vehicle is moving. These could cause an accident.

- On slippery roads, do not downshift. This may cause a loss of control.



CAUTION

When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brakes should be used for this purpose.



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Shifting

After starting the engine, fully depress the brake pedal and shift the selector lever from P (Park) to R (Reverse), D (Drive), Manual shift mode or any of the desired shift positions.



WARNING

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.

If the key is turned to OFF or ACC for any reason while the vehicle is in R (Reverse), N (Neutral), or any D (Drive) position, the key cannot be turned to LOCK and be removed from the ignition switch. Additionally, the selector lever cannot be moved to R (Reverse) from N (Neutral) or any D (Drive) position. The selector lever can be moved to R (Reverse) from any of the D (Drive) positions within 3 minutes after the ignition switch is turned to the ACC or OFF position. The selector lever can be moved from R (Reverse) to P (Park) with the key in the OFF or ACC position.

If the key cannot be turned to LOCK, perform the following steps:

1. Apply the parking brake when the vehicle is stopped.
2. Turn the key to ON.
3. Depress the foot brake pedal if the vehicle is in the N (Neutral) or any D (Drive) position.
4. If necessary, move the selector lever to P (Park) or N (Neutral) to restart the ve-

hicle (P is preferred) or move the selector lever to P (Park) to park the vehicle.

5. Turn the ignition key to LOCK to remove the key.

P (Park):

Use this selector position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. For maximum safety, depress the brake pedal, then move the lever to the P (Park) position. **The brake pedal must be depressed any time the selector lever is moved to P (Park).** Apply the parking brake. When parking on a hill, depress the foot brake pedal first, apply the parking brake, then move the lever to the P (Park) position.

R (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped when selecting R (Reverse). **The brake pedal must be depressed to move the selector lever from P (Park), N (Neutral), or any drive position to R (Reverse).**

When the selector lever is shifted into the R (Reverse) position, the monitor display shows a rear view of the vehicle.



WARNING

- The rear view camera is a convenience but it is not a substitute for proper backing or lane changing procedures. Always turn and check that it is safe to do so before backing up or changing lanes. Always back up slowly.
- Objects viewed in the rear view monitor differ from actual distance because a wide-angle lens is used. Objects will appear visually opposite than when viewed in the rear view and outside mirrors.
- Do not put anything on the rear view camera. The rear view camera is installed beside the license plate light.

N (Neutral):

Neither forward or reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

Manual shift mode

When the selector lever is shifted from D to the manual shift gate with the vehicle stopped or while driving, the transmission enters the manual shift mode. Shift ranges can be selected manually.

When shifting up, move the selector lever to the + (up) side. The transmission shifts to the higher range.

When shifting down, move the selector lever to the – (down) side. The transmission shifts to the lower range.

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:

M1 → M2 → M3 → M4 → M5
← ← ← ← ←

M5 (Fifth):

Use this position for all normal forward driving.

M4 (Fourth):

For driving up or down long slopes where engine braking would be advantageous.

M3 (Third) and M2 (Second):

Use for hill climbing or engine braking on down hill grades.

M1 (First):

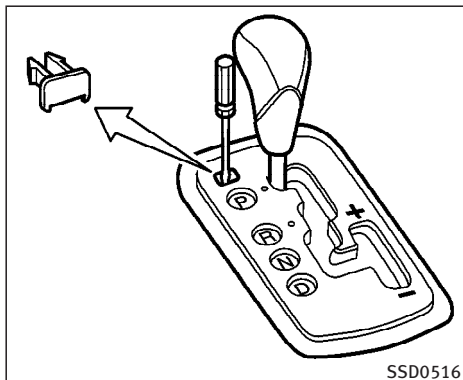
Use this position when climbing steep hills slowly or driving slowly through deep snow, sand or mud, or for maximum engine braking on steep downhill grades.

When canceling the manual shift mode, return the selector lever to the D position. The transmission returns to the normal driving mode.

- Remember not to drive at high speeds for extended periods of time in lower than M4 range. 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 ve-**

hicle damage or loss of control.

- 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.



Shift lock release

If the battery is discharged, the selector lever may not be moved from the P (Park) position even with the brake pedal depressed.

To move the selector lever, depress the brake pedal, remove the cover and push the shift lock release button using a suitable tool. The selector lever can be moved to N (Neutral). This allows the vehicle to be moved if the battery is discharged. If the steering wheel is locked, unlock the steering wheel by using the emergency key or the wallet key.

If the battery is discharged, the selector lever may not be moved to the R (Reverse) position from N (Neutral) or any D (Drive) position. To park the vehicle, push the shift lock release button and move the shift lever to P (Park) through R (Reverse).

If the lever cannot be moved out of P (Park), have your INFINITI dealer check the automatic transmission system as soon as possible.

Accelerator downshift

— In D position —

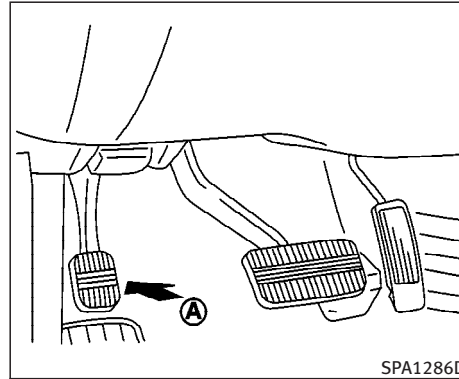
For passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

Fail-safe

When the fail-safe operation occurs, the next time the key is turned to the ON position, the ^{AT}CHECK light will blink for approximately 8 seconds after coming on for 2 seconds. While the vehicle can be driven under these circumstances please note that the gears in the automatic transmission will be locked in 4th gear.

PARKING BRAKE

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, turn the ignition key OFF and wait for 3 seconds. Then turn the key 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 your INFINITI dealer check the transmission and repair if necessary.



To apply: Fully depress the parking brake pedal (A).

To release:

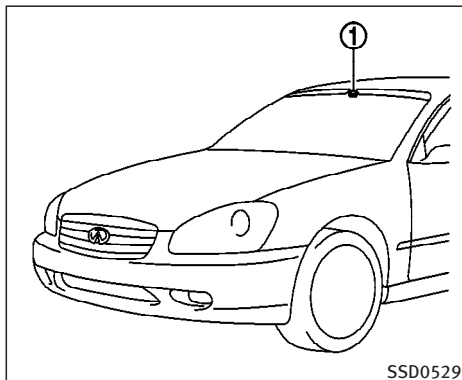
1. Firmly apply the foot brake.
2. Depress the parking brake pedal (A) and the parking brake will be released.
3. Before driving, be sure the brake warning light goes out.



WARNING

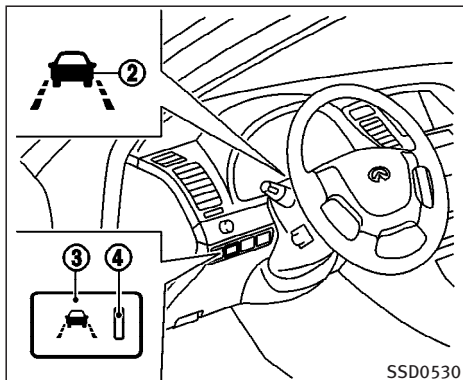
- Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.
- Do not release the parking brake from outside the vehicle.
- Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.
- Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.

LANE DEPARTURE WARNING (LDW) SYSTEM (if so equipped)



The Lane Departure Warning (LDW) system warns the driver when the vehicle is traveling close to either the left or the right of a traveling lane with detectable lane markers. It operates at approximately 45 MPH (72 km/h) and above. The system monitors lane markers of the traveling lane using the camera unit ① located inside the map light cover.

When the camera unit detects that the vehicle is traveling close to either the left or the right of the traveling lane, the LDW indicator ② on the instrument panel flashes and a chime sounds to alert the driver.



The LDW system can be turned on or off by pushing the LDW switch ③. When the system is on, the LDW system ON indicator ④ illuminates.

PRECAUTIONS ON LANE DEPARTURE WARNING (LDW) SYSTEM



WARNING

- This system is only a warning device to inform the driver of an 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 (72 km/h) or if it cannot detect lane markers.
- If the lane departure warning system malfunctions, it will cancel automatically. The LDW indicator light in the instrument panel will then illuminate (orange).
- If the LDW indicator light illuminates (orange), park the vehicle in a safe place. Turn the engine off and re-start the engine. If the LDW indicator light continues to illuminate, have the system checked by an INFINITI dealer.
- Excessive noise will interfere with warning system chime sound and the chime may not be heard.

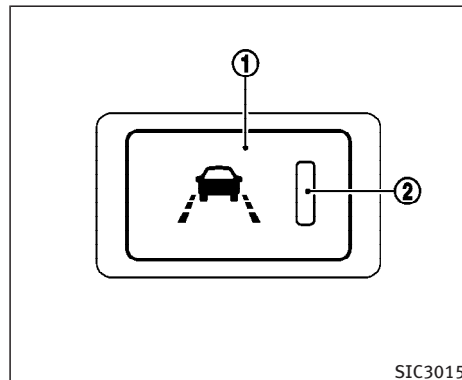
The system may not function properly under the following conditions:

- On roads where the lane markers are faded or are not painted clearly.
- On roads where the lane markers are painted yellow.
- On roads where water, dirt or snow is covering the lane markers.

The system may not monitor the lane markers in certain road, weather or driving conditions.

- On roads where there are sharp curves.
- Where the traveling lane merges or separates.
- On roads where the discontinued lane markers are present, such as near toll-gates.
- On roads where there are no general lane markers.
- On roads where the lane width is too narrow.
- 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 in the camera.
- When entering or exiting a tunnel where a sudden change in brightness occurs.
- When traveling close to the vehicle in front of you, which obstructs the camera detection range.
- When the vehicle's traveling direction does not align with the lane marker.
- When rain, snow or dirt adhere to the windshield in front of the LDW camera.



LANE DEPARTURE WARNING (LDW) SYSTEM OPERATION

The LDW system has an automatic mode and manual mode.

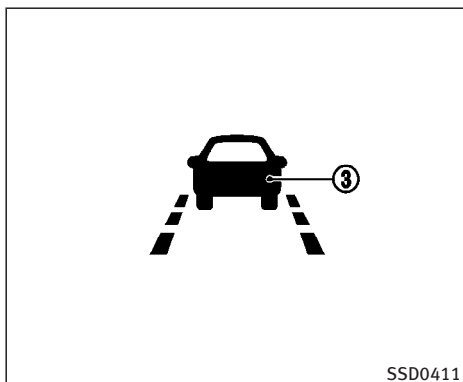
In the automatic mode, the LDW system automatically turns on when the ignition switch is turned to the ON position. The LDW system ON indicator (2) located on the LDW switch (1) illuminates, indicating that the system is on.

To cancel the LDW system, push the LDW switch (1) to turn off the LDW system ON indicator (2). To turn on the system, push

the LDW switch ① again.

In the manual mode, the LDW system will be off when the ignition switch is pushed to the ON position. The LDW switch must be pushed to turn on the system.

To change modes, push and hold the LDW switch ① for more than 4 seconds when the LDW system ON indicator ② is off. Both chime sounds and blinking of the LDW system indicator inform you that the mode change has been completed.



When the vehicle approaches either the left or the right of the traveling lane while driving over approximately 45 MPH (72 km/h), the LDW indicator ③ on the instrument panel flashes and a chime sounds to alert the driver.

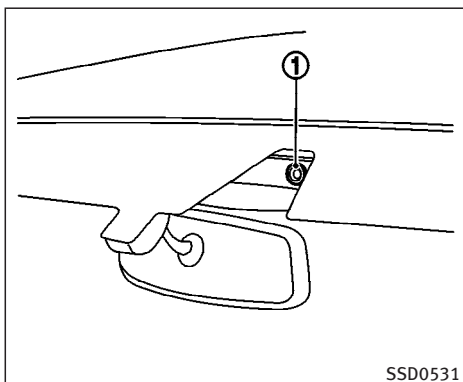
When you use the lane change signal and change your traveling lane, the LDW system does not warn you until about 2 seconds after the lane change signal is turned off.

When the vehicle speed lowers to less than approximately 45 MPH (72 km/h), the LDW system does not warn you.

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 lane departure warning system may cancel automatically. The LDW switch ON indicator will blink.

When the interior temperature is reduced, the system will again operate automatically and the LDW switch ON indicator illuminates.



Lane Departure Warning camera unit maintenance

The LDW camera unit ① for the LDW system is located inside the map light cover.

To keep the LDW system operating properly, be sure to observe the following:

- Always keep the windshield clean. The sensing capability of the camera unit depends on the condition of the windshield. See “7. Appearance and care” section for cleaning instruction.

5-18 Starting and driving

CRUISE CONTROL

PRECAUTIONS ON CRUISE CONTROL

- 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. Doing so could cause failure or malfunction. If the camera unit is damaged due to an accident, contact an INFINITI dealer.
 - Do not attach a sticker (including transparent material) or install an accessory near the camera unit. This could cause failure or malfunction.
 - Do not place reflective materials, such as a white paper or mirrors on the instrument panel. Reflection of the sunlight may adversely affect the camera unit's lane marker detection capability.
- If the cruise control system malfunctions, it will cancel automatically. The SET indicator light in the meter assembly 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 light blinks, turn the cruise control main switch off and have the system checked by your INFINITI dealer.
 - The SET indicator light may sometimes blink when the cruise control main switch is turned ON while pushing the RESUME/ACCELERATE, SET/COAST or CANCEL switch (located on the steering wheel). To properly set the cruise control system, perform the steps below in the order indicated.

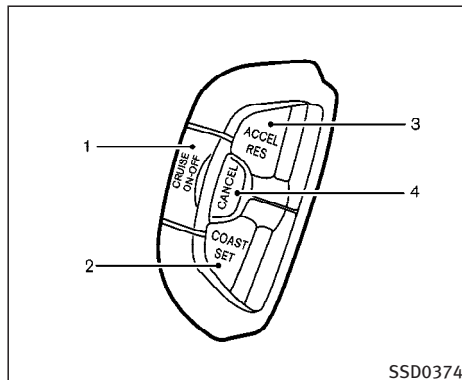


WARNING

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.
- 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. MAIN (ON-OFF) switch
2. SET/COAST switch
3. RESUME/ACCELERATE switch
4. CANCEL switch

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 25 to 89 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 light will come on.

To set cruising speed, accelerate your ve-

hicle to the desired speed, push the SET/COAST switch and release it. (The SET indicator light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle**, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed 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 light will go out.
 - b) Tap the brake pedal. The SET indicator light will go out.
 - c) Move the selector lever to the N (Neutral) position. The SET indicator light will go out.
 - d) Turn the main switch off. Both the CRUISE indicator and SET indicator lights 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 down below approximately 8 MPH (13 km/h).

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 set switch. When the vehicle attains the speed you desire, release the switch.
- Push, then quickly release the RESUME/ACCELERATE set 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 set switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 25 MPH (40 km/h).

INTELLIGENT CRUISE CONTROL (ICC) SYSTEM (if so equipped)

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.

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.

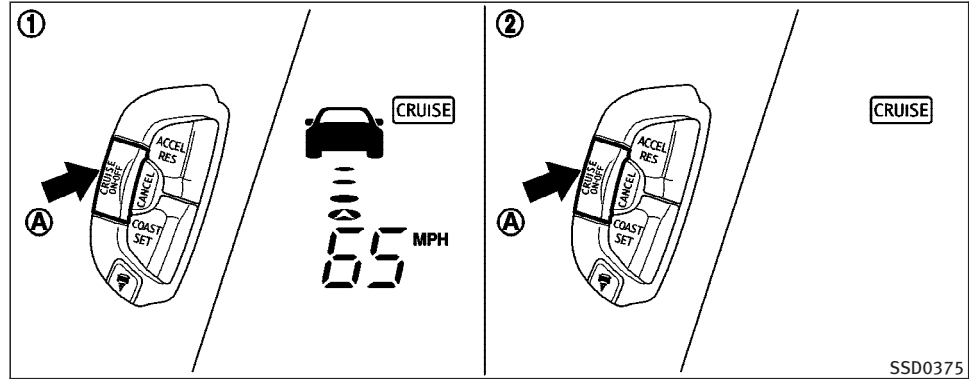


WARNING

- **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 ve-**

hicle'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 buzzer 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 ① the vehicle-to-vehicle distance control mode and ② the conventional (fixed speed) 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 5-37.

Selecting vehicle-to-vehicle distance control mode

To choose the vehicle-to-vehicle distance control mode ①, quickly push and release the MAIN switch (A).

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

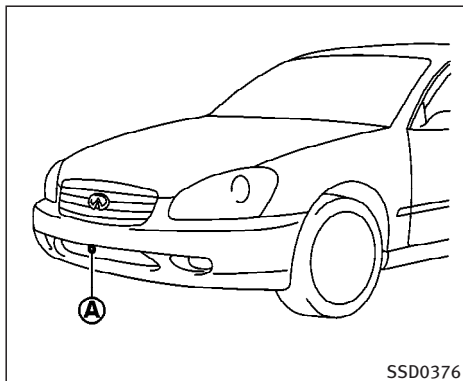
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system back on and select the desired cruise control mode.

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

This system will not automatically brake the vehicle to a stop.



WARNING

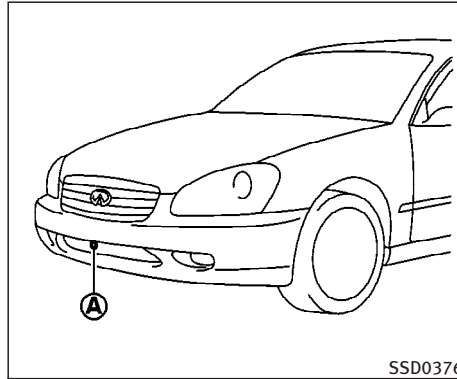
- As there is a performance limit to the distance control function, never rely solely on the Intelligent Cruise Control system. This system does not correct careless, inattentive or absent-minded driving, or overcome poor visibility in rain, fog, or other bad weather. Decelerate the vehicle speed by 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.

- Although the brake operation is controlled by the system, the system does not automatically stop the vehicle. If the vehicle speed falls below approximately 20 MPH (32 km/h), the Intelligent Cruise Control system is automatically canceled and a warning chime sounds. (The brake control is also canceled.)
- 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 low speed (LO) or high speed (HI) position, the Intelligent Cruise Control system is au-

tomatically canceled.

- When the rain-sensing auto wipers/speed sensing auto wiper system is operated in the INT position, and the wiper's operation speed is at least the same speed as the LO (low speed) position, the ICC system will be automatically canceled.
- 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 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 (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 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.

- When your vehicle is towing a trailer, etc.

The ICC system is designed to automatically check the sensor's operation. 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. 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 falls below approximately 20 MPH (32 km/h). The system will also disengage below the 20 MPH (32 km/h) cut-off speed or over the maximum set speed.

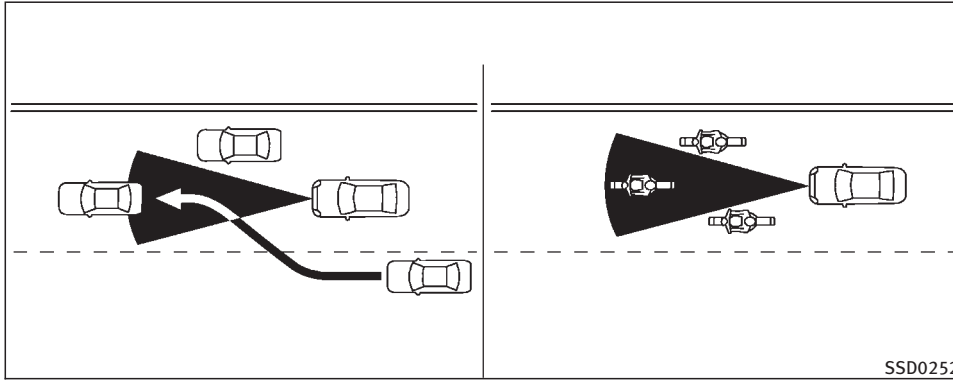
Refer to "Approach warning" later in this section.

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 25 and 90 MPH (40 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 between approximately 20 MPH (32 km/h) and up to the set speed.

- When the vehicle traveling ahead has moved out from its lane of travel, the vehicle-to-vehicle distance control mode accelerates and maintains vehicle speed up to the set speed.

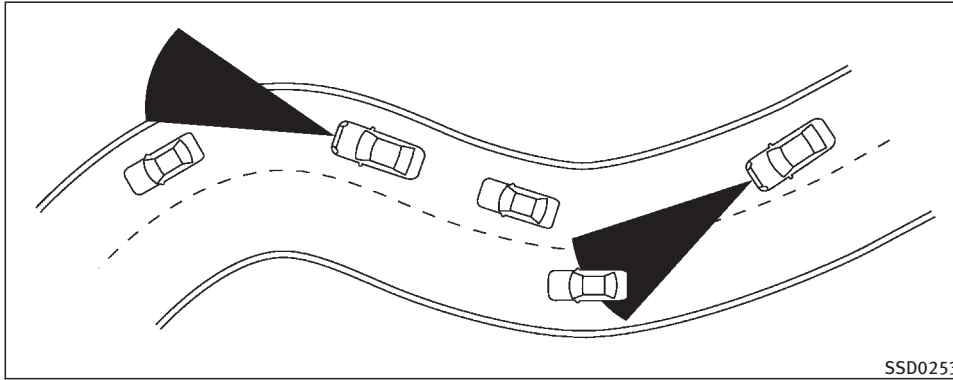
The ICC system does not control vehicle speed or warn you when you approach stationary and slow moving vehicles. You must pay attention to vehicle operation to maintain proper distance from vehicles ahead when approaching toll gates or traffic congestion.



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**

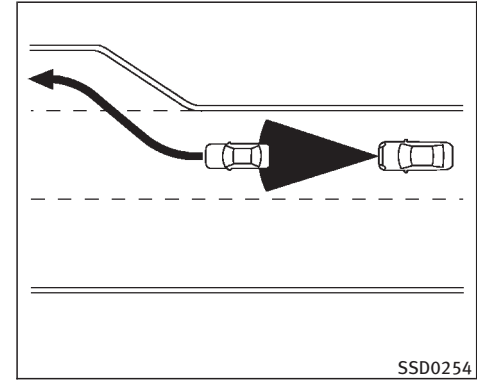
and sounding the chime. The driver may have to manually control the proper distance away from vehicle traveling ahead.



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.

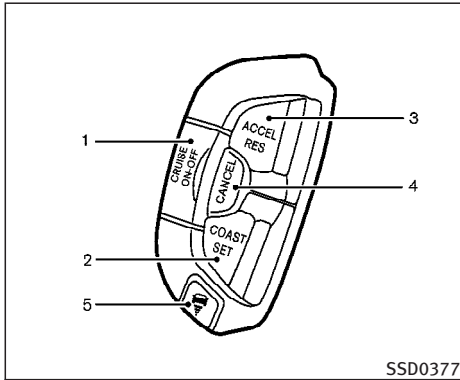
The detection of vehicles may also be affected by vehicle operation (steering maneuver or traveling position in the lane, etc.) or vehicle condition. **If this occurs, the ICC system may warn you by blinking the system indicator and sounding the chime unexpectedly. You will have to**

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.



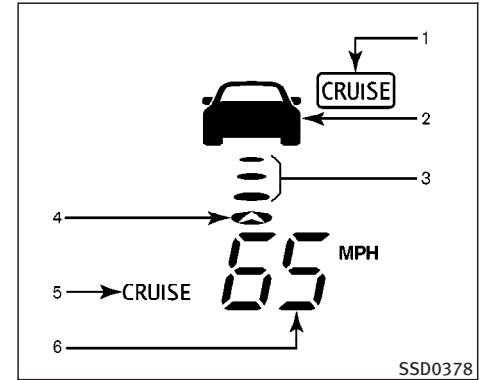
Intelligent cruise control switch

The system is operated by a MAIN switch and four control switches, all mounted on the steering wheel.

1. **MAIN switch:**
Master switch to activate the system
2. **SET/COAST switch:**
Sets desired cruise speed, reduces speed incrementally.
3. **RESUME/ACCELERATE switch:**
Resumes set speed or increases speed incrementally.

4. **CANCEL switch:**
Deactivates the system without erasing the set speed.
5. **DISTANCE switch:**
Changes the vehicle's following distance:
 - Long
 - Middle
 - Short

5-28 Starting and driving



Intelligent cruise control system display

The display is located under the speedometer.

1. **MAIN switch indicator light (White)**
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

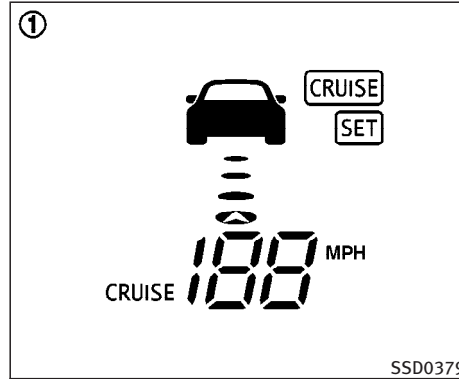
5. Intelligent Cruise Control system warning light (Orange)

The light comes on if there is a malfunction in the ICC system.

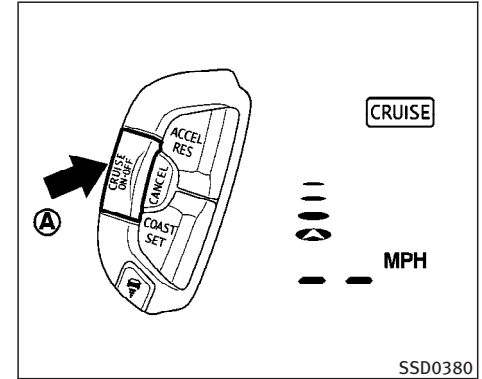
6. Set vehicle speed indicator

Indicates the set vehicle speed.

For Canadian models, the speed is displayed in km/h.



When the ignition switch is turned ON, the display ① comes 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

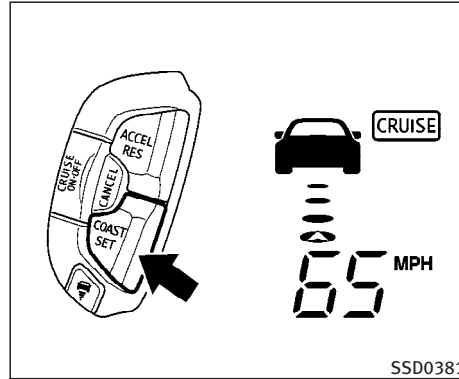
To turn on the cruise control, quickly push and release the MAIN switch (A) on. The cruise indicator light, set distance indicator and set vehicle speed indicator come on and in a standby state for setting.



CAUTION

To avoid accidentally engaging cruise con-

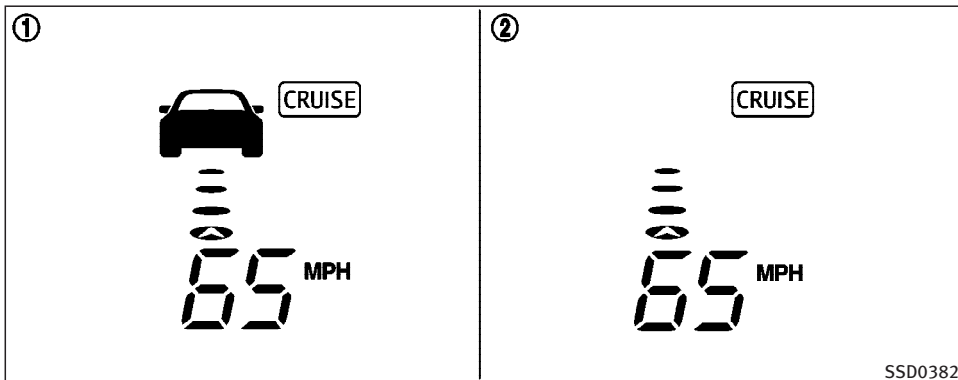
trol, make sure to turn the ON/OFF switch is off when not using the Intelligent Cruise Control.



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.

The Intelligent Cruise Control system cannot be set under the following conditions even if the SET/COAST switch is pushed.

- While the brakes are applied by the driver
 - When pushing the RESUME/ACCELERATE switch without a set speed in memory
 - When the windshield wipers are operating at low speed (LO) or high speed (HI)
 - When the rain sensing auto wipers/speed sensing auto wiper system is operated in the INT position, and the wiper's operation is at least the same as the LO (low speed) position
 - When the parking brake is applied.
 - When the Vehicle Dynamic Control (VDC) system is switched off
- When traveling outside the 25 to 90 MPH (40 to 144 km/h) speed range



1. System set display with vehicle ahead
2. System set display without vehicle ahead

System operation

WARNING

Normally when controlling the distance to a vehicle ahead, this system automatically accelerates or decelerates your vehicle according to the speed of the vehicle ahead. Depress the accelerator to properly accelerate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

ate your vehicle when acceleration is required for a lane change. Depress the brake pedal when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden braking or if a vehicle cuts in. Always stay alert when using the ICC system.

The driver sets the desired vehicle speed based on the road conditions. The ICC system maintains the set vehicle speed, similar to standard cruise control, as long as no vehicle is detected in the lane ahead.

The ICC system displays the set speed.

Vehicle detected ahead:

When a vehicle is detected in the lane ahead, the ICC system decelerates the vehicle by controlling the throttle and applying the brakes to match the speed of a slower vehicle ahead. The system then controls the vehicle speed based on the speed of the vehicle ahead to maintain the driver selected distance.

The stoplights of the vehicle come on and the brake pedal depresses when braking is performed by the ICC system.

CAUTION

Never place your foot under the brake pedal when the brake is operated by the Intelligent Cruise Control system. You may get your foot caught in the pedal.

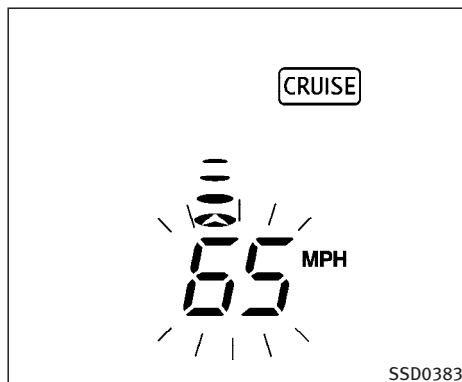
When a vehicle ahead is detected, the vehicle ahead detection indicator comes on. The ICC system will also display the set speed and selected distance.

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 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 ON/OFF switch indicator and set vehicle speed indicator will go out.

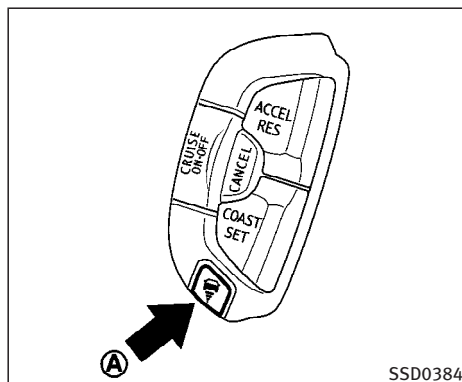
To reset at a faster cruising speed, use one of the following methods:

- 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 25 MPH (40 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.

Distance	Display	Approximate distance at 60 MPH (96 km/h) [ft (m)]
Long		195 (60)
Middle		130 (40)
Short		90 (30)

SSD0385

- 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 ve-

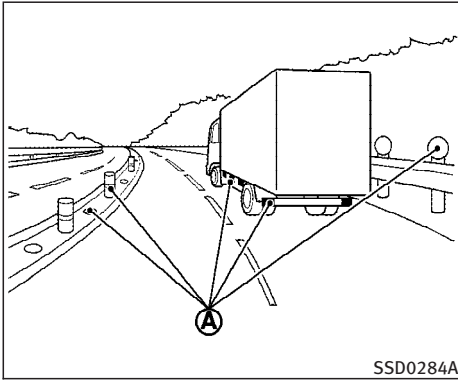
hicle or if another vehicle cuts in, the system warns the driver with the chime and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- 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 the accelerator pedal is depressed, overriding the system
- 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:

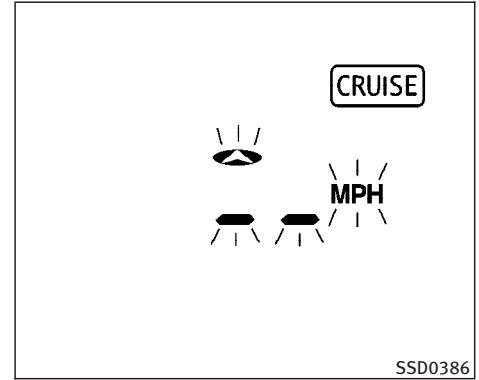
The approach warning chime may sound and the system display may blink when the ICC sensor detects some reflectors (A) which are fitted on vehicles in other lanes or on the side of the road. This may cause the ICC system to decelerate or accelerate the vehicle. The ICC sensor may detect these reflectors 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 speed falls below approximately 20 MPH (32 km/h)
- When the selector lever is shifted to the N (Neutral) position
- When the windshield wipers are operated at low speed (LO) or high speed (HI)
- When the rain-sensing auto-wipers/speed sensing auto wiper system is operated in the INT position, and the wiper's operation is at least the same speed as the LO (low speed) position
- When the parking brake is applied
- When the VDC is turned off
- When the VDC operates



Warning light and display

Condition A

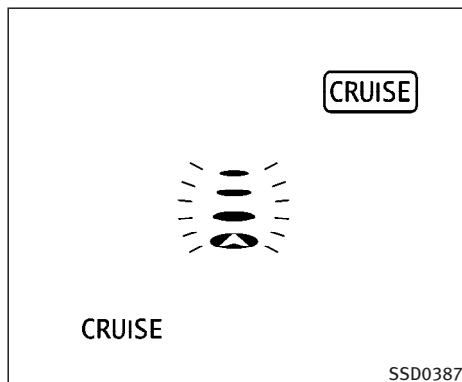
The chime sounds and the Intelligent Cruise Control system is canceled automatically in the conditions described below. Part of the system display will come on or blink, making it impossible to set.

- When the VDC is turned off
- When the VDC operates
- When a tire slips

- 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.



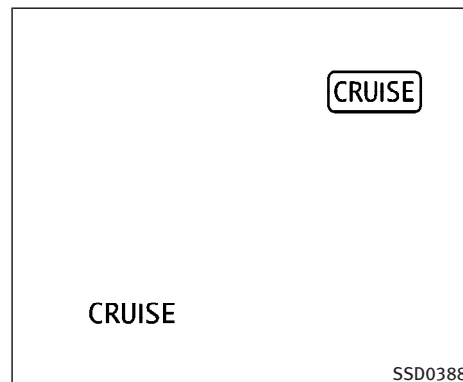
Condition B

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 system warning light (Orange) will come on and the set distance indicators will blink.

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

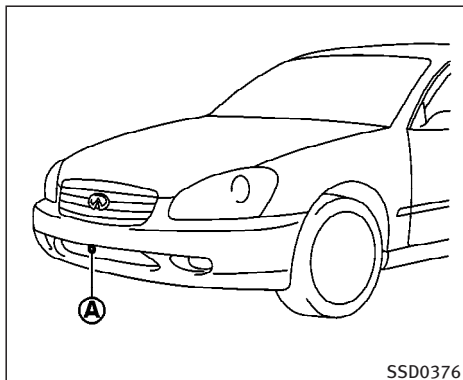
When the ICC system is not operating properly, the chime sounds and the system warning light (Orange) will come on.

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 system is malfunctioning. Although the ve-

hicle is still driveable under normal conditions, have the vehicle checked at an INFINITI dealer.



Sensor maintenance

The sensor for the ICC system (A) 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 dealer.

- Do not use alcohol, benzine or thinner to clean the sensor. To clean the sensor, wipe gently with a cloth dampened with a diluted mild cleaning agent and rinse with water. Dry the sensor with a dry cloth.
- 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

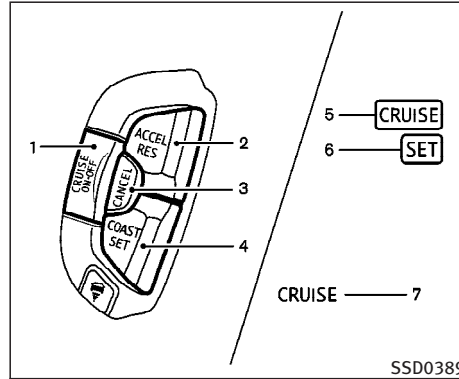
This mode allows driving at a speed between 25 to 90 MPH (40 to 144 km/h) without keeping your foot on the accelerator pedal.



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.

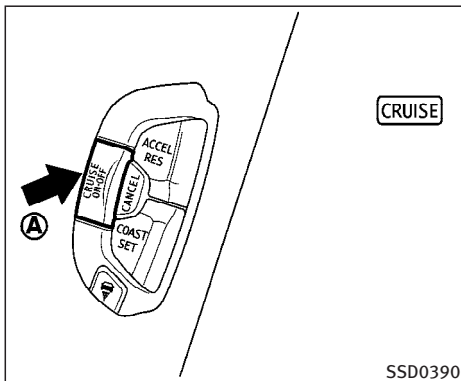


Conventional (fixed speed) cruise control mode display and switch

The display is located under the speedometer.

1. MAIN switch:
Master switch to activate the system
2. RESUME/ACCELERATE switch:
Resumes set speed or increases speed incrementally.
3. CANCEL switch:
Deactivates the system without erasing the set speed.

4. SET/COAST switch:
Sets the desired cruise speed, reduces speed incrementally.
5. MAIN switch indicator light
Indicates that the MAIN switch is ON.
6. Cruise set switch indicator light
The light comes on while the vehicle speed is controlled by the conventional (fixed speed) cruise control mode of the ICC system.
7. Cruise system warning light
The light comes on if there is a malfunction in the cruise control system.



Operating conventional (fixed speed) cruise control mode

To turn on the conventional (fixed speed) cruise control mode, push and hold the MAIN switch **A** for longer than about 1.5 seconds.

When pushing the MAIN switch on, the Intelligent Cruise Control system display and the CRUISE indicator light (White) in the instrument cluster come on. 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 de-

sired cruising speed. Pushing the MAIN switch again will turn the system completely off.

When the ignition switch is turned off, 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 ON/OFF switch off when not using the Intelligent Cruise Control.

To set cruising speed, accelerate your vehicle to the desired speed, push the SET/COAST switch and release it. (The SET indicator light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle**, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.

- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, manually maintain vehicle speed.

To cancel the preset speed, use any of the following methods:

- Push the CANCEL button. The SET indicator light will go out.
- Tap the brake pedal. The SET indicator light will go out.
- Turn the MAIN switch off. Both the CRUISE indicator and SET indicator lights will go out.

To reset at a faster cruising speed, use one of the following three methods:

- Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the SET/COAST switch.
- Push and hold the RESUME/ACCELERATE set 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 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).

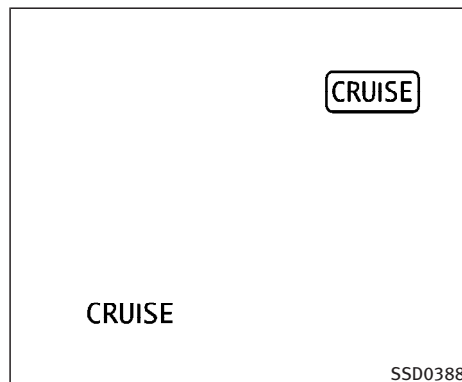
Automatic cancellation

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).

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- When the selector lever is shifted to the N (Neutral) position.
- When the parking brake is applied.
- When the VDC operates (except ABS, which is functional with ICC system operation).



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 dealer.

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, refer to “Brake assist” later in this section.

BREAK-IN SCHEDULE



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.

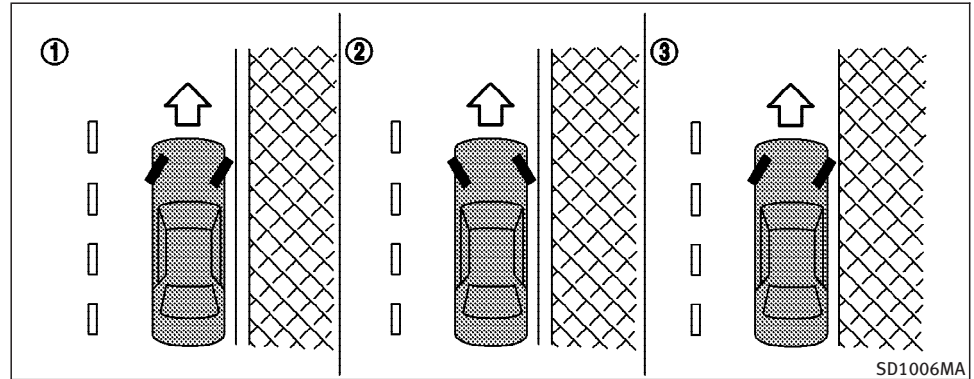
- Avoid driving for long periods at constant speed, either fast or slow. Do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (805 km).

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.
- Air conditioner operation lowers fuel economy. Use the air conditioner only when necessary.

PARKING/PARKING ON HILLS

- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.



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.
- Never leave children unattended in the vehicle.

- Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park). Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident.
- Make sure the shift lever 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.

POWER STEERING

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 drive way, it is a good practice to turn the wheels as illustrated.
 - HEADED DOWNHILL WITH CURB: ①
Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.
 - HEADED UPHILL WITH CURB: ②
Turn the wheels away from the curb and move the vehicle back until the curb side wheel gently touches the curb.
 - HEADED UPHILL OR DOWNHILL, NO CURB: ③
Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.
4. Turn the ignition key to the “LOCK” position and remove the key.

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 or at low speeds.



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 much harder to operate.

ACTIVE DAMPER SUSPENSION (if so equipped)

The active damper suspension controls damping force and helps minimize the movement of the vehicle body. It helps stable driving when the vehicle moves up and down on large rolling roads or when the vehicle body leans during cornering with a high centrifugal force.

The damping force of the shock absorbers can be adjusted to the level you desire. Set the switch to the position you desire while the ignition switch is ON.

Set the switch to the AUTO position for normal driving. The damping force will automatically adjust according to the road surface and driving conditions.

Set the switch to the SPORT position when you desire a firm feeling all the time.

In the event of an electrical system failure, a signal stored in the system’s computer memory is automatically sent to the active damper suspension control unit and the actuators. The shock absorbers now function as they would on a vehicle not equipped with the active damper suspension function. Contact an INFINITI dealer for service.

BRAKE SYSTEM

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

You may feel a small click and hear a sound when the brake pedal is fully depressed slowly. This is not a malfunction and means the brake assist mechanism is operating properly.

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.

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.

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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 your INFINITI dealer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will cause overheating of the brakes, wearing out the brake, linings 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.
- 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

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.



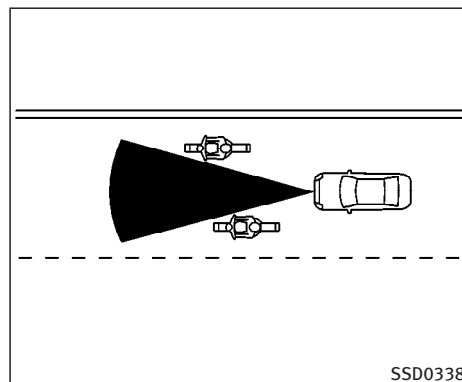
WARNING

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 model)

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**

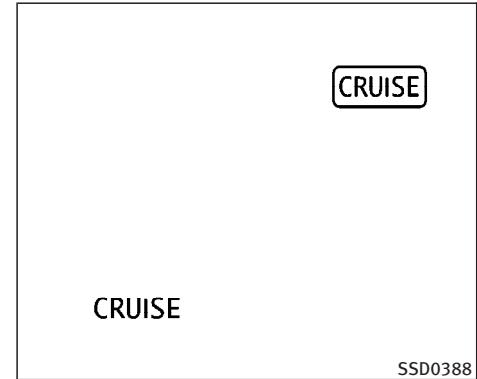
driver's responsibility to stay alert, drive safely and be in control of the vehicle at all times.

- 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 drivable 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, the buzzer 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 dealer.

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 them.
- Do not impact the areas around the sensor. Do not touch or disassemble the screw located on the sensor. Doing so could cause failure or malfunction. If the sensor installation part is deformed due to an accident, contact an INFINITI dealer.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.

ANTI-LOCK BRAKE SYSTEM (ABS)

The anti-lock brake system (ABS) controls the brakes so the wheels will not lock when braking abruptly or when braking on slip-

pery 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 wheel lockup, 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.



WARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Normal operation

The ABS will not operate at speeds below 3 to 6 MPH (5 to 10 km/h). The speeds will vary according to road conditions. When the ABS senses that one or more wheels are close to locking up, the actuator (under the hood) rapidly applies and releases hydraulic pressure (like pumping the brakes very quickly). While the actuator is working, you may feel a pulsation in the brake pedal and hear a noise or vibration from the actuator under the hood. This is

normal and indicates that the ABS is working properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

Self-test feature

The ABS consists of electronic sensors, electric pumps, and hydraulic solenoids controlled by 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 check occurs, you may hear a clank noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of any malfunction. If the computer senses any malfunction, it switches the ABS off and turns on the anti-lock brake warning light in the instrument panel. The brake system will then behave normally, but without anti-lock assistance.

If the light comes on during the self check, or while you are driving, you should take your vehicle to your INFINITI dealer for repair at your earliest convenience.



WARNING

The anti-lock brake system 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, but remember that the stopping distance on slippery surfaces will be longer than on normal surfaces even with the anti-lock brake system. 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 responsibility for safety of self and others rests in the hands of the driver. Tire type and condition of tires may also affect braking effectiveness.

- When replacing tires, install the specified size of tires to the front and rear.
- When installing a spare tire, make sure it is the proper size and type as specified on the Tire and Loading Informa-

tion label. See “9. Technical and consumer information” section for the Tire and Loading Information label location.

VEHICLE DYNAMIC CONTROL (VDC) SYSTEM

When accelerating or driving on a slippery surface, the tires may spin or slide. With the Vehicle Dynamic Control (VDC) system, sensors detect these movements and control the braking and engine output to help improve vehicle stability.

- When the VDC system is operating, the “SLIP” indicator in the instrument panel blinks.
- When only the Traction Control System (TCS) portion of the VDC system is operating, the “SLIP” indicator in the instrument panel blinks.
- If the “SLIP” indicator blinks, the road conditions are slippery. Be sure to adjust your speed and driving to these conditions. Be sure to drive carefully. See “SLIP INDICATOR LIGHT”, and “VEHICLE DYNAMIC CONTROL (VDC) OFF INDICATOR LIGHT” in the “2. Instruments and controls” section.
- Indicator light
If a malfunction occurs in the system, the “SLIP” and “VDC OFF” indicator lights illuminate in the instrument panel. As long as these indicators are illuminated, the VDC system function is canceled.

The VDC system uses an Active Brake Limited Slip (ABLS) system to improve vehicle traction. The ABLS system works when one of the driving wheels is spinning on a slippery surface. The ABLS system brakes the spinning wheel, which distributes the driving power to the other driving wheel. If the vehicle is operated with the VDC system turned off, all VDC system functions and TCS functions will be turned off. The ABLS system and ABS will still operate with the VDC system off. When the ABLS system is activated, the “SLIP” indicator light will blink and 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.

While the VDC system is operating, you may feel a pulsation in the brake pedal and hear a noise or feel a vibration from under the hood. This is normal and indicates that the VDC system is working properly.

The VDC system computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle forward or backward. When the self-test occurs, you may hear a “clunk” noise and/or feel a pulsation in the brake pedal. This is normal and is not an indication of a malfunction.



WARNING

- The VDC system is designed to help improve driving stability but does not prevent accidents due to abrupt steering operation at high speeds or due to careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.
- If engine related parts such as muffler are not standard equipment or are extremely deteriorated, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.
- Do not modify the vehicle’s suspension. If suspension parts such as shock absorbers, struts, springs, stabilizer bars and bushings are not INFINITI approved or are extremely deteriorated the VDC system may not operate properly. This could adversely affect vehicle handling

performance, and the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.

- If brake related parts such as brake pads, rotors and calipers are not standard equipment or are extremely deteriorated, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.
- When driving on extremely inclined surfaces such as higher banked corners, the VDC system may not operate properly and the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate. Do not drive on these types of roads.
- When driving on unstable surfaces such as a turntable, ferry, elevator or ramp, the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate. This is not a malfunction. Restart the engine after driving onto a stable surface.

- If wheels or tires other than those recommended are used, the VDC system may not operate properly and the “VDC OFF” indicator or “SLIP” indicator or both indicator lights may illuminate.
- The VDC system is not a substitute for winter tires or tire chains on a snow covered road.

REAR ACTIVE STEER (RAS) SYSTEM (if so equipped)

The Rear Active Steer (RAS) system is an electronically controlled four-wheel steering system.

The angle of the rear wheels are adjusted by the RAS system, depending on the vehicle speed and steering angle. The rear wheels are designed to turn momentarily in the opposite direction and then change to the same direction as the front wheels.

At low speeds, the rear wheels will not turn and the system functions as a two-wheel steering system.

If a malfunction occurs in the system, the RAS function will stop but the ordinary two-wheel steering system will operate normally. The “RAS” warning light will illuminate.

If the light illuminates while you are driving, contact an INFINITI dealer for repair.



WARNING

The RAS 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 RAS system be fully appreciated and safety assured.

COLD WEATHER DRIVING

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer or glycerin to it through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole.

ANTIFREEZE

In the winter when it is anticipated that the 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 by opening the drain plug located under the radiator. Refill before operating the vehicle. See “Engine cooling system” in the

“8. Maintenance and do-it-yourself” section for changing engine coolant.

TIRE EQUIPMENT

1. SUMMER tires are of a tread design 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. Please consult your INFINITI dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

3. Tire chains may be used if desired. Make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer’s suggestions.

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 of 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.

Never install tire chains on a T-type spare tire. Do not use tire chains on dry roads.

SPECIAL WINTER EQUIPMENT

It is recommended that the following items be carried in the vehicle during winter:

1. A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
2. A sturdy, flat board to be placed under the jack to give it firm support.
3. A shovel to dig the vehicle out of snow-drifts.
4. Extra window washer fluid to refill the reservoir tank.

DRIVING ON SNOW OR ICE



WARNING

- Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and

very hard to drive on. The vehicle will have much less traction or “grip” under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.

- Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.
- Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.
- Allow greater following distances on slippery roads.
- Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.
- Do not use cruise control on slippery roads.

- Snow can trap dangerous exhaust gases under your vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.

ENGINE BLOCK HEATER (if so equipped)

An engine block heater to assist extreme cold temperature starting is available through your INFINITI dealer.



WARNING

Do not use your heater with an ungrounded electrical system or two-pronged (cheater) adapters. You can be injured by an electrical shock if you use an ungrounded connection.

6 In case of emergency

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Flat tire	6-2	If your vehicle overheats.....	6-12
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ROADSIDE ASSISTANCE PROGRAM

Every new INFINITI comes with a 4 year, unlimited mileage Roadside Assistance plan. 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. Both the Warranty Information Booklet and Roadside Assistance Calling Card in your Owner's Literature Portfolio provide the Toll-Free Number to call for assistance. Roadside Assistance is provided 24 hours a day, 365 days a year, for 4 years from the date sold to give emergency roadside help, in the event of mechanical or nonmechanical trouble(s) such as flat tires, out-of-gas, dead battery, lost keys, mechanical breakdown, accident, etc.

FLAT TIRE

TIRE PRESSURE MONITORING SYSTEM

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, one or more of your tires is significantly under-inflated. If equipped, the system also displays pressure of all tires (except the spare tire) on the display screen by sending a signal from a sensor that is installed in each wheel. If the vehicle is being driven with a very low tire pressure, the TPMS will activate and warn you of it by the low tire pressure warning light or a WARNING (FLAT TIRE) displayed on the screen. This system will activate only when the vehicle is driven at speeds above 16 MPH (25 km/h). For more details, please refer to "Warning/indicator lights and audible reminders" in the "2. Instruments and controls" section, "Tire pressure information" in the "4. Monitor, climate, audio and voice-activated control systems" section and "Tire pressure monitoring system (TPMS)" in the "5. Starting and driving" section.



WARNING

- If the low tire pressure warning light illuminates or a WARNING is displayed on the monitor screen while driving, avoid sudden steering maneuvers or abrupt braking, reduce vehicle speed, pull off the road to a safe location and stop the vehicle as soon as possible. Serious vehicle damage could occur and may lead to an accident and could result in serious personal injury. Check the pressure of all four tires. Adjust the 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 you have a flat tire, replace it with a spare tire as soon as possible.
- If your vehicle is equipped with run-flat tires, you can continue driving after you have a flat tire. However, remember that vehicle handling stability is reduced, which could lead to an accident and personal injury. See "Wheels and tires"

in the “8. Maintenance and do-it-yourself” section for more details and make sure to observe the cautions about run-flat tires. Failure to do so may result in a serious accident.

- 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. Contact your INFINITI dealer 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.

RUN-FLAT TIRES (if so equipped)

Run-flat tires are those tires that can be used temporarily if they are punctured. After driving to a safe location, replace the punctured run-flat tire, following the in-

structions later in “Changing a flat tire”. For additional information, see “Wheels and tires” in the “8. Maintenance and do-it-yourself” section. Also, see the tire safety information in the INFINITI Warranty Information Booklet.



WARNING

- Although you can continue driving with a punctured run-flat tire, remember that vehicle handling stability is reduced, which could lead to an accident and personal injury. Also, driving a long distance at high speeds may damage the tires.
- Do not drive at speeds above 55 MPH (88 km/h) and do not drive more than 50 miles (80 km) with a punctured run-flat tire. A punctured tire may burst and cause a serious accident, resulting in personal injury.
- Drive safely at reduced speeds. Avoid hard cornering or braking, which may cause you to lose control of the vehicle.
- If a rear tire is punctured, replace it with

a non-punctured tire, especially when driving on rainy snowy or icy roads.



CAUTION

- Never install tire chains on a punctured run-flat tire, as this could damage your vehicle.
- Avoid driving over any projection or pothole, as the clearance between the vehicle and the ground is smaller than normal.
- Do not enter an automated car wash with a punctured run-flat tire.
- Have the punctured tire replaced by your INFINITI dealer as soon as possible, as the tire’s performance capability is reduced.

CHANGING A FLAT TIRE

If you have a flat tire, follow the instructions below.

Stopping the vehicle

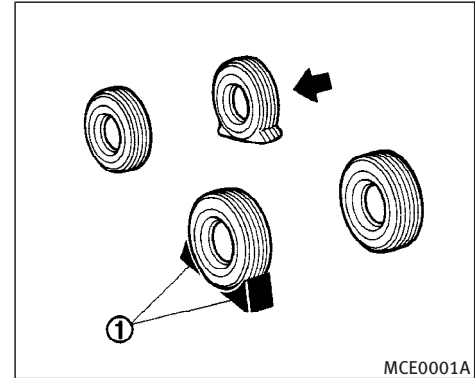
1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the automatic transmission into P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road 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 is shifted 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 rolling when it is jacked up.

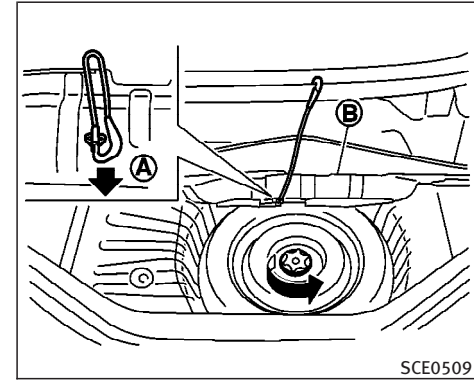
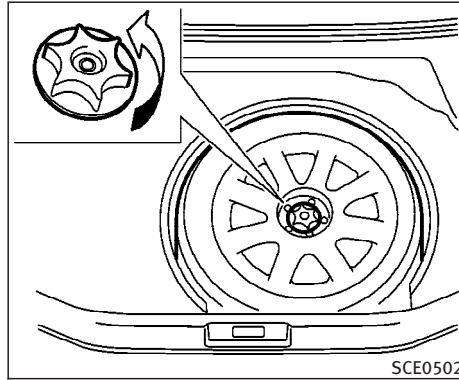


WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.

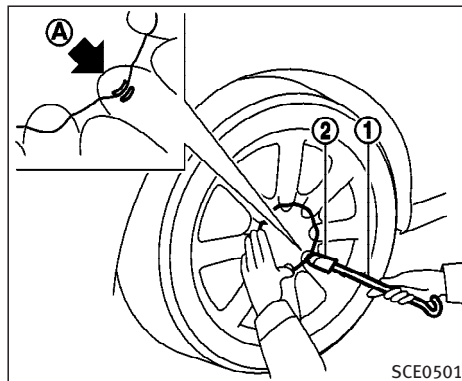
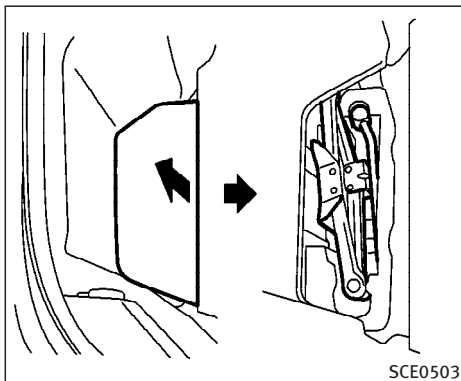
Getting the spare tire and tools

Remove jacking tools and spare tire from the storage area located inside the trunk as illustrated.



Luggage board hook (if so equipped):

Remove the strap (A) and hook the luggage board (B) to the body as illustrated while removing or storing the spare tire.



Removing wheel cap

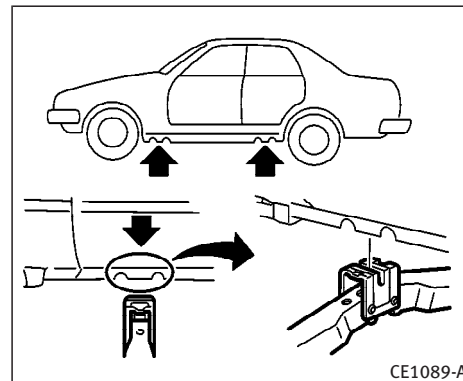
To remove the wheel cap, use the jack rod ① as illustrated.

Apply the cloth ② between the wheel cap removal point (A) and jack rod to prevent damaging.



CAUTION

Do not use your hands to pry off wheel caps or wheel covers. Doing so could result in personal injury.



Jack-up point

Jacking up the vehicle and removing the damaged tire



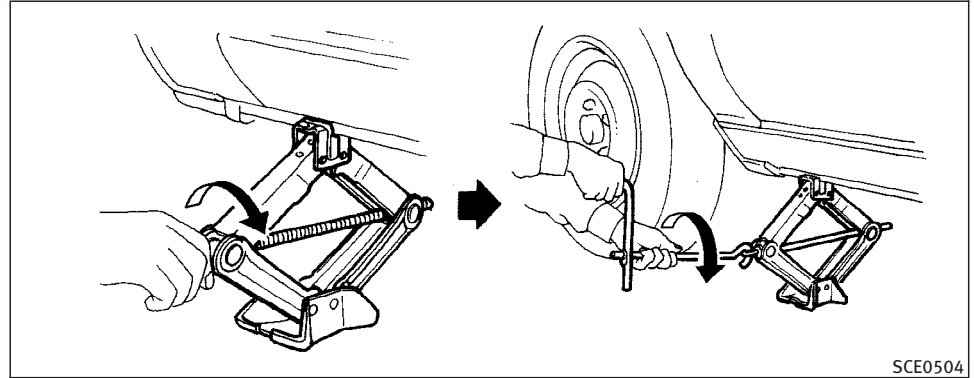
WARNING

- 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.



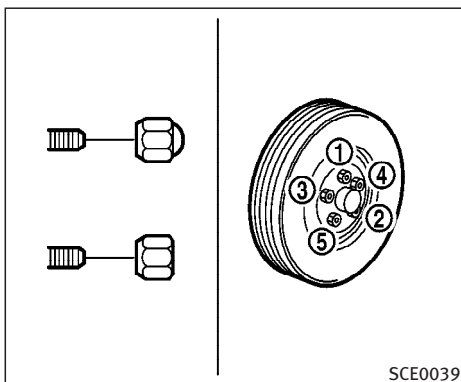
1. Place the jack directly under the jack-up point so that top of the jack contacts the vehicle at the jack-up point. Align the center of both the jack head and the notch at the jack-up point as shown. Also fit the notched portion of the vehicle in the groove of the jack head as shown.

The jack should be used on level firm ground.

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 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 of this manual.

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.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly until they are tight.

6-8 In case of emergency

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 (1, 2, 3, 4, 5). Lower the vehicle completely.



WARNING

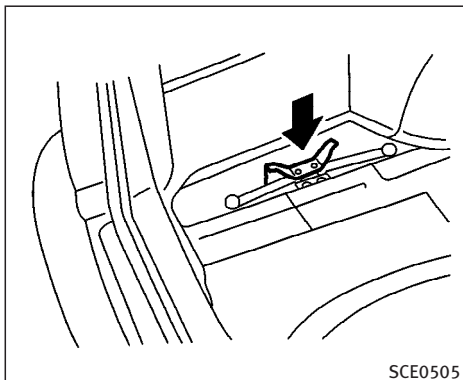
- Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off. This could cause an accident.
 - Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.
 - Retighten the wheel nuts after the vehicle has been driven for 600 miles (1,000 km) (also in cases of tire rotation, 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)
- 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.

After adjusting tire pressure to the COLD tire pressure, the display of the tire pressure information may show higher pressure than the COLD tire pressure after the vehicle has been driven more than 1 mile (1.6 km). This is because the tire pressurizes as the tire temperature rises. This does not indicate a system malfunction.



- Securely store the flat tire and jacking equipment in the vehicle.
- Place the spare tire cover and the trunk floor carpeting over the damaged tire.
- 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.

- The T-type spare tire and small size spare tire are designed for emergency use. See “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).

JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

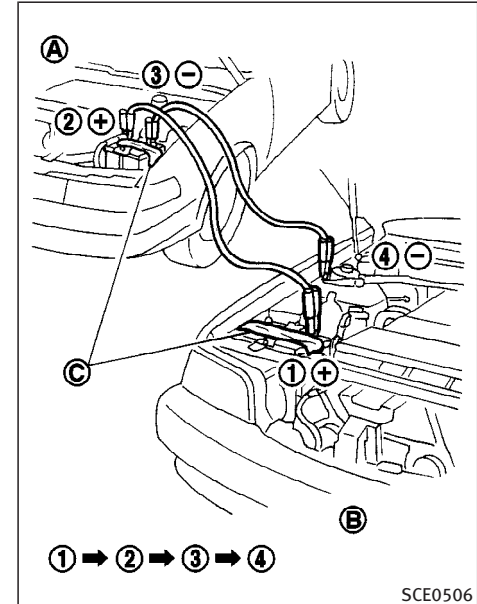
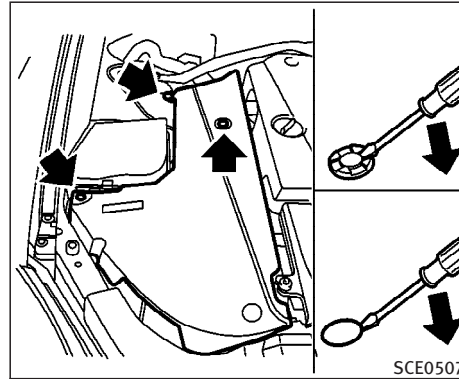


WARNING

- 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).



WARNING

Always follow the instructions below. Failure to do so could result in damage to the

charging system and cause personal injury.

1. Remove the battery cover as illustrated.
2. 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.

3. Apply parking brake. Move the selector lever to P (Park). Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).
4. Remove vent caps on the battery (if so equipped). Cover the battery with a firmly wrung out moist cloth (C) to reduce explosion hazard.
5. Connect jumper cables in the sequence as illustrated (1) → (2) → (3) → (4).



CAUTION

- **Always connect positive (+) to positive (+) and negative (-) to body ground (for example, strut mounting bolt, engine lift bracket, etc.) – not to the battery.**
 - **Make sure the jumper cables do not touch moving parts in the engine compartment and that clamps do not contact any other metal.**
6. Start the engine of the booster vehicle (A) and let it run for a few minutes.
 7. Keep the engine speed of the booster vehicle (A) at about 2,000 rpm, and start your engine of the jumped vehicle (B) in the normal manner.



CAUTION

Do not keep the starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying again.

8. After starting your engine, carefully disconnect the negative cable and then the positive cable (4) → (3) → (2) → (1).
9. 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.
10. Put the battery cover on.

PUSH STARTING



CAUTION

Automatic transmission models cannot be push started. Attempting to do so may cause transmission damage.

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



WARNING

- 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 P (Park).
Do not stop the engine.
2. Turn off the air conditioner (if so equipped). Open all the windows, move

the temperature control to maximum hot and the 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, the drive belt is missing or loose, or the cooling fan does not run, stop the engine.



WARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time when the coolant temperature is high.

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 dealer.

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 your INFINITI dealer. Local service operators will generally be 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.



WARNING

- **Never ride in a vehicle that is being towed.**
- **Never get under your vehicle after it has been lifted by a tow truck.**

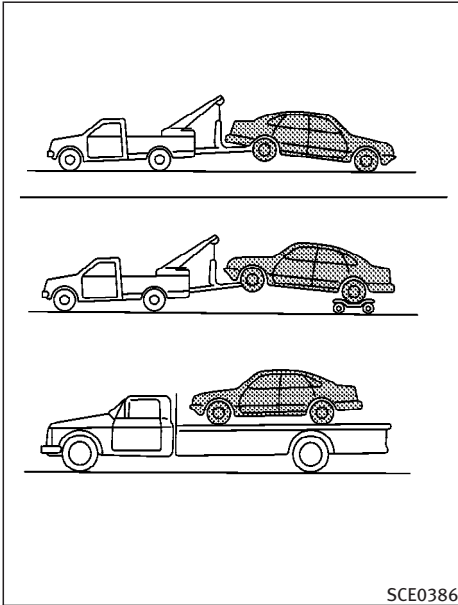


CAUTION

- **When towing, make sure that the transmission, axles, steering system and power train are in working condition. If any unit is damaged, dollies must be used.**
- **Always attach safety chains before towing.**

For information about towing your vehicle behind a recreational vehicle (RV), refer to “Flat towing” in the “9. Technical and consumer information” section of this manual.

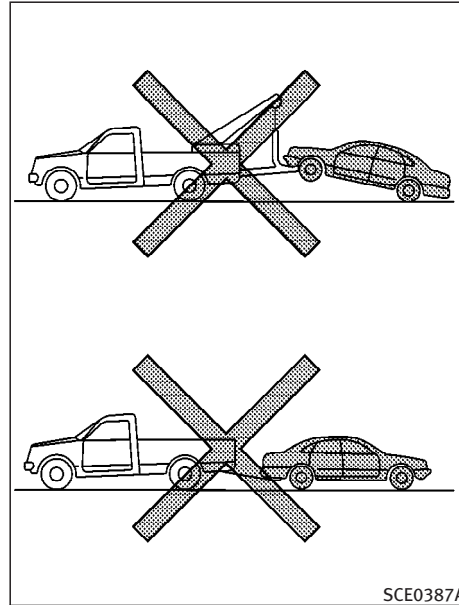
If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty & Roadside assistance information booklet (Canada).



TOWING RECOMMENDED BY INFINITI

INFINITI recommends that your vehicle be towed with the driving (rear) wheels off the ground or place the vehicle on a

6-14 In case of emergency

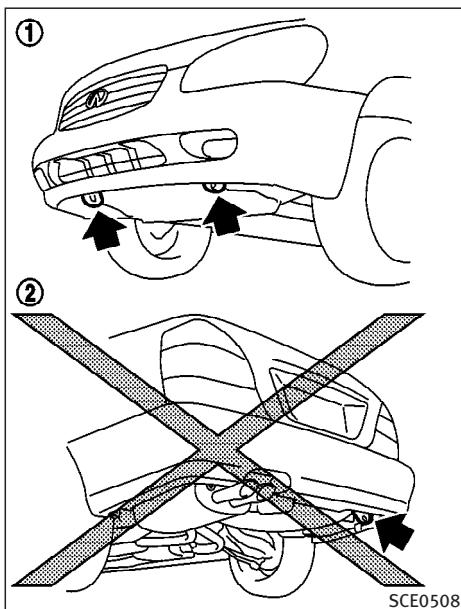


flat bed truck as illustrated.



CAUTION

- 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.
- When towing rear wheel drive models with the front wheels on the ground or on towing dollies: Turn the ignition key to the OFF position, and secure the steering wheel in a straight-ahead position with a rope or similar device. Never secure the steering wheel by turning the ignition key to the LOCK position. This may damage the steering lock mechanism.



① Towing hook

② Tie down hook

Do not use this hook as a towing hook

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.



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.
- Pull devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

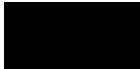
If your vehicle is stuck in sand, snow, mud, etc., use the following procedure:

1. Turn off the Vehicle Dynamic Control 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.

7 Appearance and care

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CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

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

Thoroughly rinse surface dirt off the vehicle with a wet sponge and plenty of clean water. Clean the vehicle thoroughly using a mild soap such as Nissan Car Wash, or a

7-2 Appearance and care

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.



CAUTION

- Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.
- Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.

- Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. Polishing is recommended to remove built-up wax residue and to avoid a weathered appearance before re-applying wax.

An INFINITI dealer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.

Machine compound or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

REMOVING SPOTS

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at your INFINITI dealer or 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 underbody and suspension corrosion. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

GLASS

When cleaning the rear window, it may be easier to clean if the high-mounted stop light is removed first. To remove the high-mounted stop light, see “8. Maintenance and do-it-yourself”.

Be careful when removing the high-mounted stop light to reduce the risk of damaging the high-mounted stop light wires.

The high-mounted stop light must be properly reinstalled before driving your vehicle.

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.



CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defogger elements.

ALUMINUM ALLOY WHEELS

Wash regularly, especially during winter months in areas where road salt is used. Salt could discolor the wheel if not removed.

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.

CLEANING INTERIOR

- 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.



CAUTION

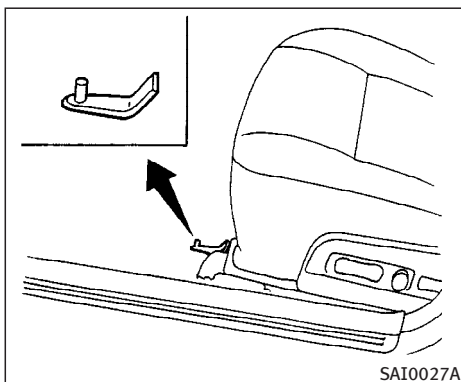
- **Never use benzine, thinner, or any similar material.**
- **Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, car waxes, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may**

damage the leather's natural finish.

- **Never use fabric protectors unless recommended by the manufacturer.**
- **Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.**

FLOOR MATS

The use of genuine floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. **No matter what mats are used, be sure they are fitted for your vehicle and are properly positioned in the footwell to prevent interference with pedal operation.** Mats should be maintained with regular cleaning and replaced if they become excessively worn.



Floor mat positioning aid

This 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.

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.

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.

REAR SUN SHADE (if so equipped)

Screen

To clean, fully extend the rear sun shade screen and clean dust or dirt off using a vacuum cleaner from the inside of the compartment. See “Rear sun shade” in the “2. Instruments and controls” section for rear sun shade operation.

CAUTION

Be careful not to damage the screen while cleaning.

Cover

Wipe the rear sun shade cover with a clean, dry cloth.

CAUTION

Never use benzene, thinner or any other neutral detergent as this may deform the cover.

CORROSION PROTECTION

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

1. The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
2. 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.

7-6 Appearance and care

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 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.



CAUTION

- **NEVER** remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.
- **Never** allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.

Chemicals used for road surface de-icing 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 your local INFINITI dealer.

8 Maintenance and do-it-yourself

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MAINTENANCE REQUIREMENTS

Your new INFINITI has been designed to have minimum maintenance requirements with longer 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 specified maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care. 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

8-2 Maintenance and do-it-yourself

responsibility to perform these procedures regularly as prescribed.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, your INFINITI dealer.

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 dealer.

INFINITI technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership information systems. They are completely qualified to work on INFINITI vehicles before work begins.

You can be confident that your INFINITI dealer's service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economic 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 your INFINITI dealer do it promptly. In addition, you should notify your INFINITI dealer if you think that repairs are required.

When performing any checks or maintenance work, see "Maintenance precautions" later in this section.

EXPLANATION OF GENERAL 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 and latches 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).

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, 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 and make sure it has the proper distance under it when depressed fully. Check the brake booster function. Be sure to 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 that the lever has the proper travel and confirm that your vehicle is held securely on a fairly steep hill with only the parking brake applied.

Seat belts: Check that all parts of the seat belt system (For example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

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 steering 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 properly.

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 under severe condition require fre-

quent 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 locate the trouble and correct it. 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 corrected immediately.

Power steering fluid level* and lines: Check the level when the fluid is cold and the engine is turned 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, deterioration or loose connections.

Underbody: The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances, otherwise rust will form on the floor pan, frame, fuel lines and around the exhaust system. At the end of winter, the underbody should be thoroughly 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 tank.

MAINTENANCE PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.



WARNING

- Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the shift selector lever to P (Park).
- Be sure the ignition key is in the OFF or LOCK position when performing any parts replacement or repairs.
- If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.
- It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.

- Always wear eye protection whenever you work on your vehicle.
- If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.
- Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.
- Keep smoking materials, flame and sparks away from fuel 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 dealer 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.
- Never connect or disconnect the battery or any transistorized component while the ignition key 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.
- Avoid direct contact with used engine oil and coolant. Improperly disposed engine oil, and coolant, and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.

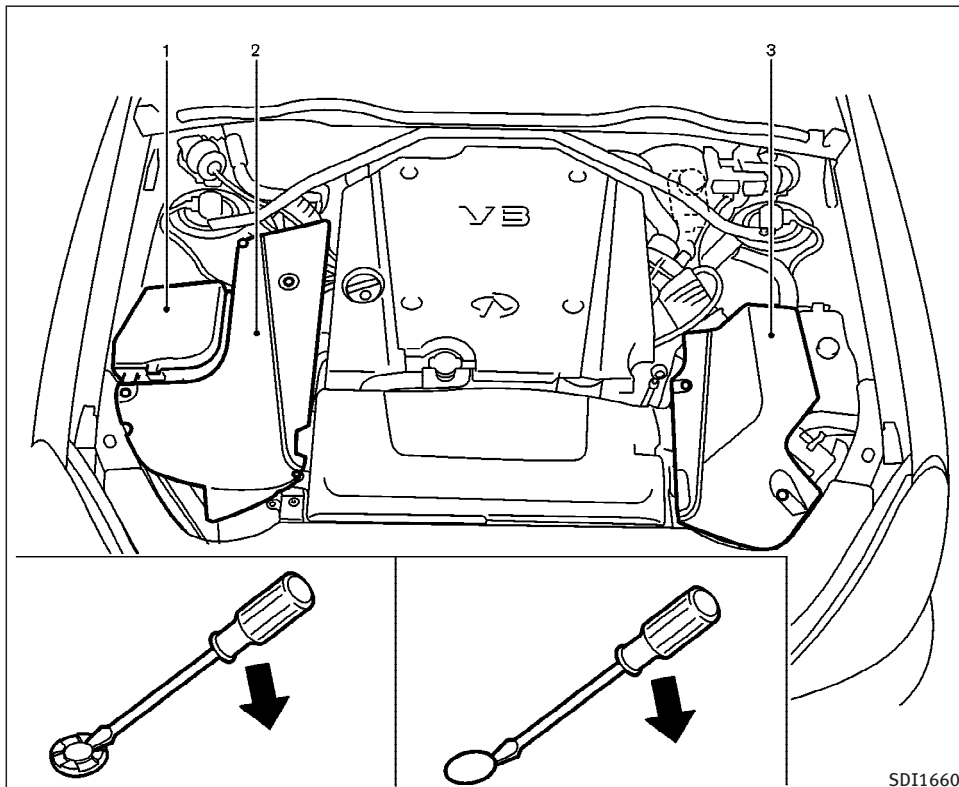
This “8. Maintenance and do-it-yourself” section gives instructions regarding only those items which are relatively easy for

8-6 Maintenance and do-it-yourself

most owners 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 your INFINITI dealer.**

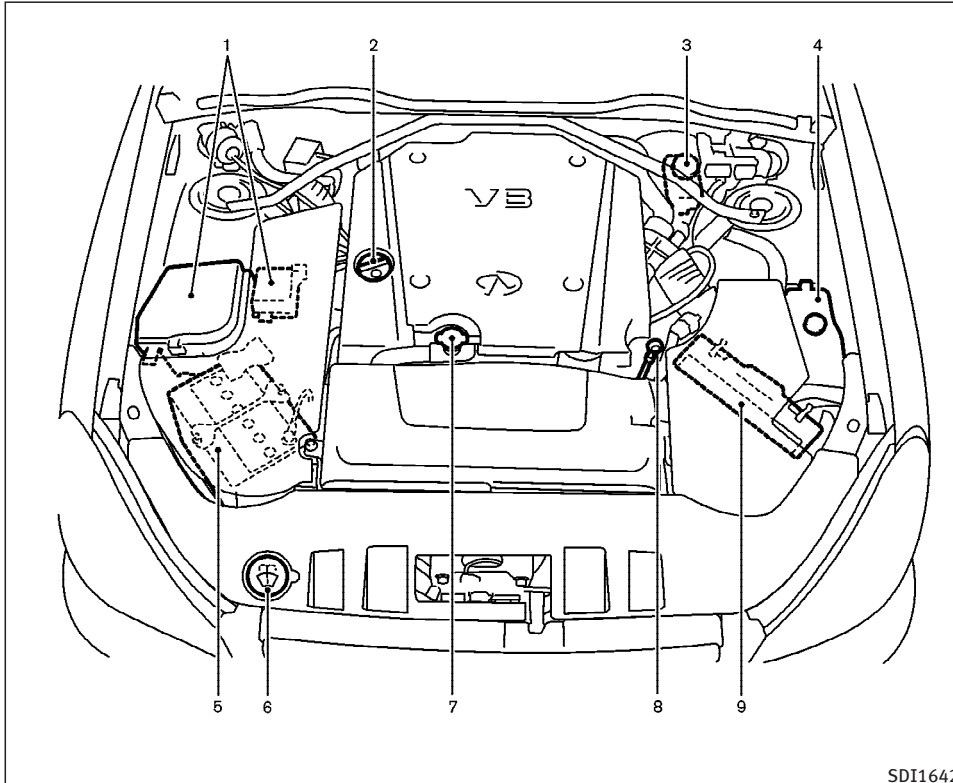
ENGINE COMPARTMENT CHECK LOCATIONS



1. Fuse cover
2. Battery cover
3. Air filter cover

Remove the cover using the suitable tools as illustrated if necessary.

SDI1660



1. Fuse/fusible link holder
2. Engine oil filler cap
3. Brake fluid reservoir
4. Coolant reservoir
5. Battery
6. Windshield washer fluid reservoir
7. Radiator filler cap
8. Engine oil dipstick
9. Air cleaner

SDI1642

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.

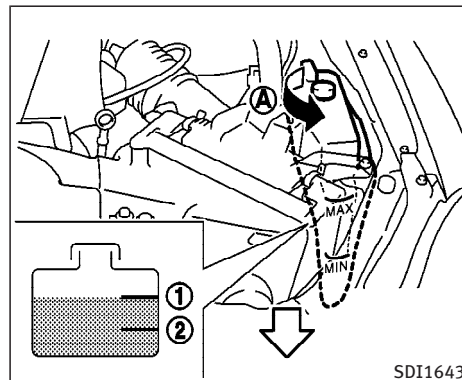
WARNING

- 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” found 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 Anti-freeze Coolant (green) or equivalent with the proper mixture ratio of 50% antifreeze and 50% demineralized water/distilled water. The use of other types of coolant solutions may damage your engine cooling system.

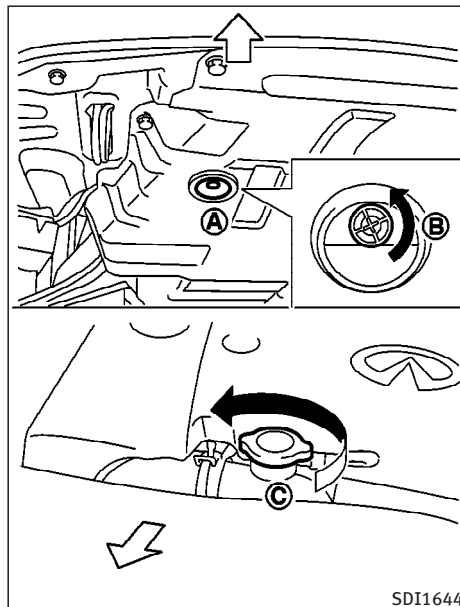
Outside temperature down to		Anti-freeze	Demineralized water or distilled water
°C	°F		
-35	-30	50%	50%



CHECKING ENGINE COOLANT LEVEL

Check the coolant level **in the reservoir tank when the engine is cold**. If the coolant level is below MIN (2), open the reservoir tank cap (A) 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).

If the cooling system requires coolant frequently, have it checked by your INFINITI dealer.



CHANGING ENGINE COOLANT

- Major cooling system repairs should be performed by your INFINITI dealer. The service procedures can be found in the appropriate INFINITI Service Manual.

- Improper servicing can result in reduced heater performance and engine overheating.



WARNING

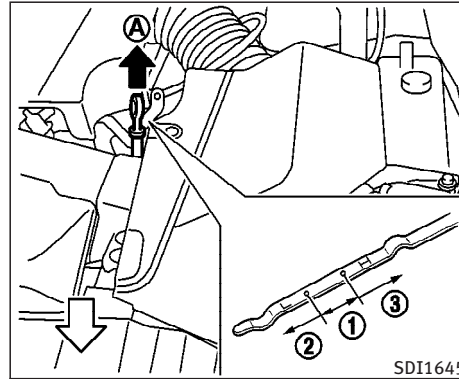
- To avoid the danger of being scalded, never change the coolant when the engine is hot.
- Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.
- Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.
- Keep coolant out of reach of children and pets.

When changing engine coolant, be sure the ignition switch is off.

1. Remove the radiator drain plug cover (A) located under body and open the radiator drain plug (B), and then remove the radiator filler cap (C).

ENGINE OIL

- **Be careful not to allow coolant to contact drive belts.**
 - **Waste coolant must be disposed of properly. Check your local regulations.**
2. Close the radiator drain plug securely after the coolant is drained.
 3. Fill the radiator slowly with the proper mixture of antifreeze solution and demineralized water/distilled water. Fill the reservoir tank up to the MAX level. Then install the radiator filler cap.
 4. Start the engine and warm it up until it reaches normal operating temperature. Then race the engine two or three times under no load. Watch the engine coolant temperature gauge for signs of overheating.
 5. Stop the engine. **After it completely cools down**, refill the radiator up to the filler opening. Fill the reservoir tank up to the MAX level.
 6. Check the drain plug for any sign of leakage.



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 (A) and wipe it clean. Reinsert it all the way, so the circle of the dipstick handle faces the vehicle front.

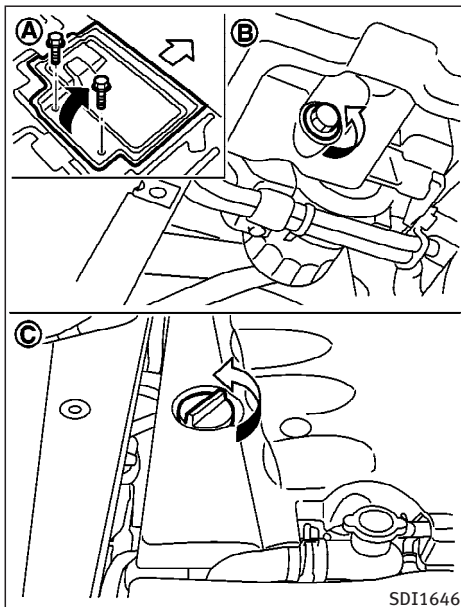
5. Remove the dipstick again and check the oil level. It should be between the H and L marks (1). If the oil level is below the L mark (2), remove the oil filler cap and pour recommended oil through the opening. **Do not overfill (3).**
6. Recheck oil level with the dipstick.

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.



CHANGING ENGINE OIL

Change the engine oil and filter according to the maintenance intervals shown in the “INFINITI Service and Maintenance Guide”.

8-12 Maintenance and do-it-yourself

1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature. (Approximately 5 minutes)
3. Turn the engine off and wait more than 15 minutes.
4. Place a large drain pan under the drain plug.
5. Open the cover (A) (located under the body) as illustrated and remove the drain plug (B) with a wrench.
6. Remove the oil filler cap (C) and completely drain the oil.

If oil filter is to be changed, remove and replace it at this time. See later in “Engine oil” for changing engine oil filter.



CAUTION

Be careful not to burn yourself. The engine oil may be hot.

- **Waste oil must be disposed of properly.**
- **Check your local regulations.**

7. 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.

8. Refill the engine with recommended oil and install the cap securely.

See “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section for drain and refill capacity.

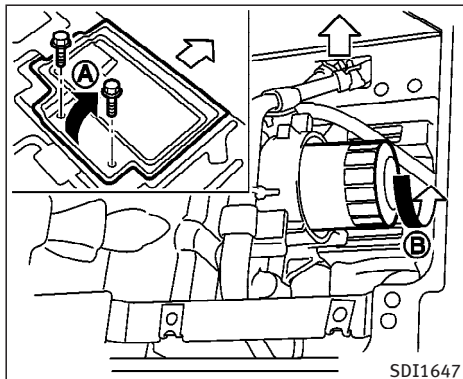
The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.

9. Start the engine.
 Check for leakage around the drain plug. Correct as required.
10. Turn the engine off and wait more than 15 minutes. Check the oil level. Add engine oil if necessary.
11. Dispose of waste oil properly.



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.



CHANGING ENGINE OIL FILTER

1. Park the vehicle on a level surface and apply the parking brake.
2. Turn the engine off and wait more than 15 minutes.
3. Open the cover (located under the body) as illustrated (A).
4. Loosen the oil filter (B) with an oil filter wrench. Remove the oil filter by turning it by hand.



CAUTION

Be careful not to burn yourself. The engine oil may be hot.

5. Wipe the engine oil filter sealing surface with a clean rag.

Be sure to remove any old rubber gasket remaining on the sealing surface of the engine.
6. Coat the rubber gasket on the new filter with clean engine oil.
7. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn.

Oil filter tightening torque:

**10.85 to 15.19 ft-lb
(14.7 to 20.6 N·m)**

8. Start the engine and check for leakage around the oil filter. Correct as required.
9. Turn the engine off and wait more than 15 minutes. Check the oil level. Add engine oil if necessary.
10. Close the cover.

AUTOMATIC TRANSMISSION FLUID

When checking or replacement is required, we recommend your INFINITI dealer for servicing.



CAUTION

- Use only Genuine Nissan Matic J ATF. Do not mix with other fluids.
- Using automatic transmission fluid other than Genuine Nissan Matic J 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.

The specified automatic transmission fluid is also described on caution labels located in the engine compartment.

POWER STEERING FLUID

When checking or replacement is required, we recommend your INFINITI dealer for servicing.



CAUTION

Recommended fluid is Genuine NISSAN PSF or equivalent.

BRAKE FLUID

For additional brake fluid specification information, refer to “Capacities and recommended fuel/lubricants” in the “Technical and consumer information” section of this manual.



WARNING

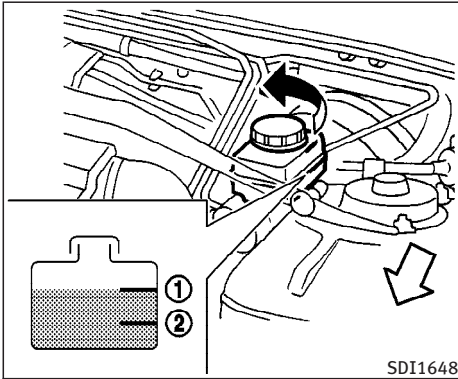
Use only new fluid. Old, inferior, or contaminated fluid may damage the brake system. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.



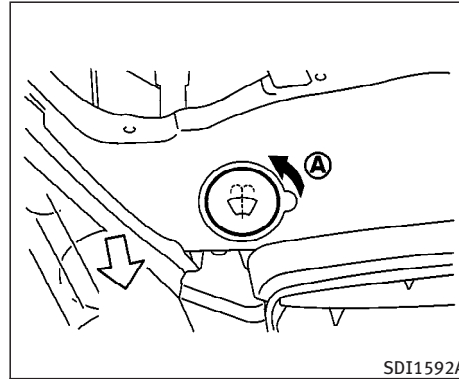
CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surfaces with water.

WINDOW WASHER FLUID



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 your INFINITI dealer.



Add fluid when the low washer fluid warning comes on the display. Pull up the reservoir tank cap ① and add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Recommended fluid is Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent.



WARNING

Antifreeze is poisonous and should be stored carefully in marked containers out of the reach of children.



CAUTION

Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.

BATTERY

- Keep the battery surface clean and dry. Any corrosion should be washed off 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.

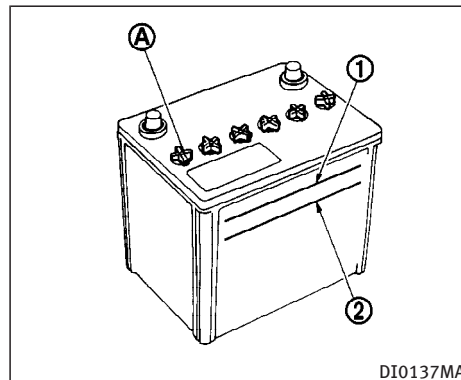


WARNING

- 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

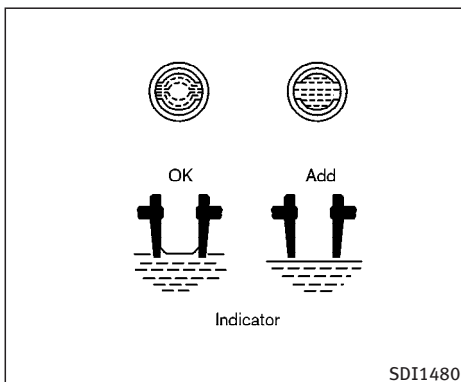
can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.

- 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 battery out of the reach of children.



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.**



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 your INFINITI dealer.

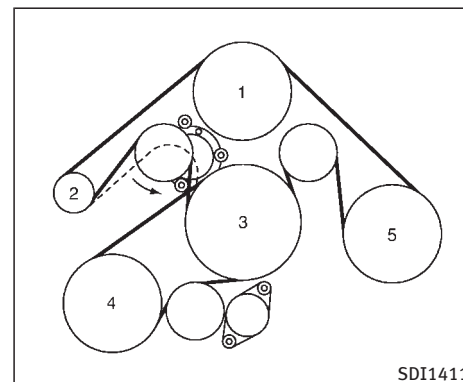
1. Remove the cell plugs (A).
2. Add distilled water up to the UPPER LEVEL (1) line.

If the side of the battery is not clear, check the distilled water level by looking directly above the cell, as illustrated.

3. Tighten cell plugs (A).

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

DRIVE BELTS



1. Water pump
2. Generator
3. Crankshaft pulley
4. Power steering fluid pump
5. Air conditioner compressor

SPARK PLUGS



WARNING

Be sure the ignition key is in the OFF or LOCK position. The engine could rotate unexpectedly.



WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.



CAUTION

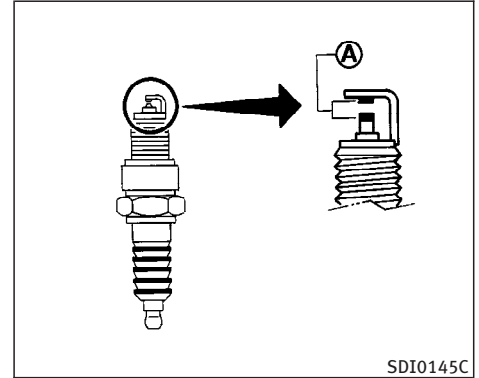
Be sure to use the correct socket to remove the spark plugs. An incorrect socket can damage the spark plugs.

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 your INFINITI dealer.
2. Have the belts checked regularly for condition in accordance with the maintenance schedule in your “INFINITI Service and Maintenance Guide”.

Always replace spark plugs with recommended or equivalent ones.

REPLACING SPARK PLUGS

If replacement is required, see your INFINITI dealer for servicing.

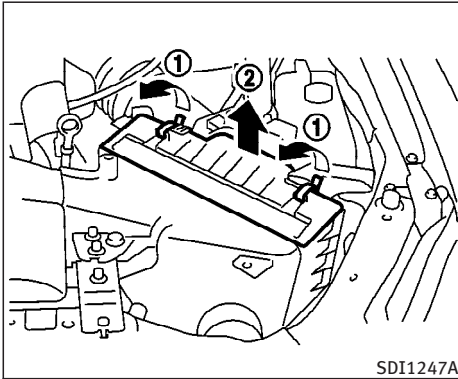


SDI0145C

Platinum-tipped spark plugs

It is not necessary to replace the platinum-tipped (A) 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.

AIR CLEANER



Remove the retainers ① as illustrated and pull out ② 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” booklet 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.

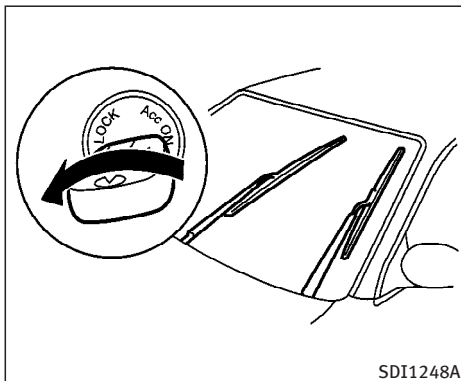
WINDSHIELD WIPER BLADES

CLEANING

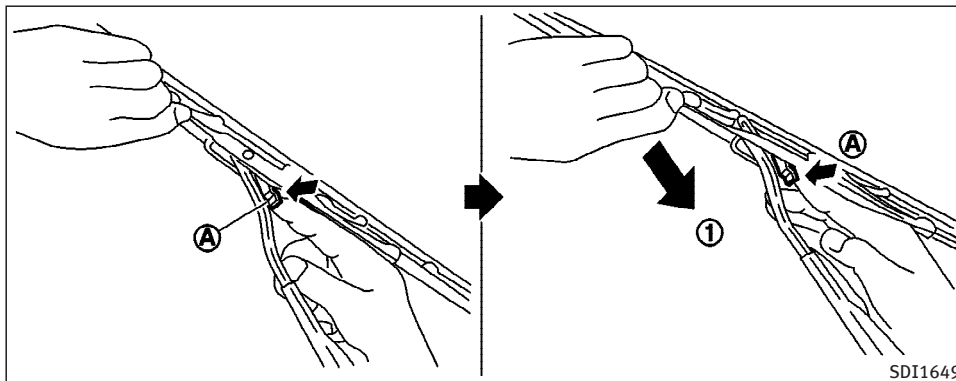
If your windshield is not clear after using the windshield washer or if a wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean the 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.



SDI1248A



SDI1649

REPLACING

Replace the wiper blades if they are worn.

1. Turn the ignition switch to the ON position and the windshield wiper switch ON. Turn the ignition switch OFF when the wiper is in the fully up position. The wiper will stop as illustrated.

The wiper should be in the fully up position to avoid scratching the engine hood or wiper arm.

2. Pull the wiper arm.
3. Push the release tab (A), and then move the wiper blade down the wiper arm (1) while pushing the release tab to remove.
4. Insert the new wiper blade onto the wiper arm until a click sounds.



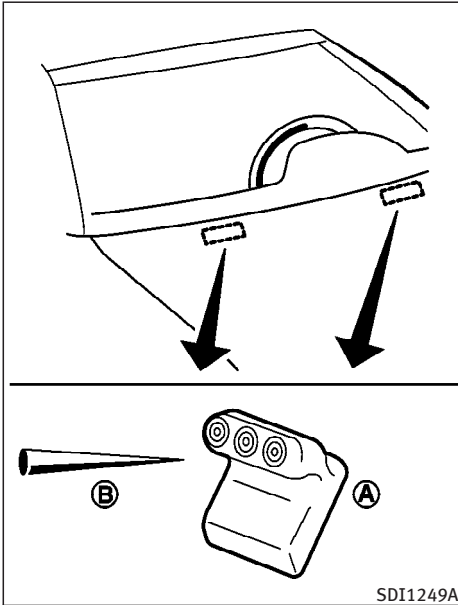
CAUTION

- After wiper blade replacement, return the wiper arm to its original position;

otherwise it may be damaged when the hood is opened.

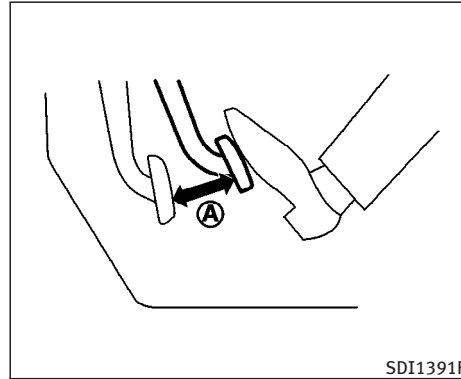
- Make sure the wiper blades contact the glass; otherwise the arm may be damaged from wind pressure.
- Worn windshield wiper blades can damage the windshield and impair driver vision.

PARKING BRAKE AND BRAKE PEDAL



SDI1249A

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).

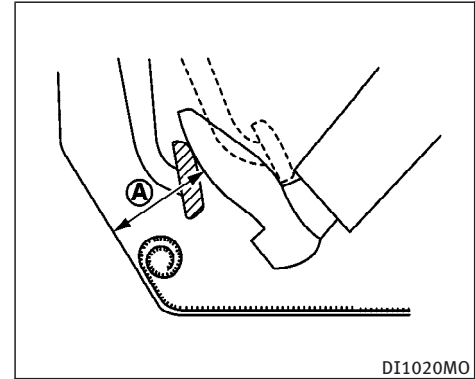


SDI1391F

CHECKING PARKING BRAKE

From the released position, depress the parking brake pedal slowly and firmly, and check the notches between the initial and final position of the pedal (A). If it is out of the range, see your INFINITI dealer.

Range: 4 to 5 notches under a depressing force of 44 lb (196 N).



DI1020MO

CHECKING BRAKE PEDAL

With the engine running, check the distance between the upper surface of the pedal and the metal floor (A). If it is out of the range shown above, see your INFINITI dealer.

Range: 4 inch (100 mm) or more under a depressing force of 110 lb (490 N).

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time

Maintenance and do-it-yourself 8-21

the brake pedal is applied.



WARNING

See an INFINITI dealer for a brake system check if the brake pedal height does not return to normal.

Brake pad wear indicators

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, it will make a high pitched scraping or screeching sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator 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.

The rear drum parking brakes do not have audible wear indicators. Should you ever hear an unusually loud noise from the rear drum parking brakes, have them inspected

as soon as possible by your INFINITI dealer.

Proper brake inspection intervals should be followed. For additional information, see the maintenance log section of your “INFINITI Service and Maintenance Guide” booklet for maintenance intervals.

BRAKE BOOSTER

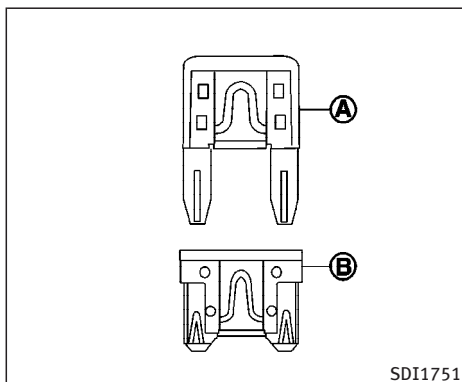
Check the brake booster function as follows:

1. With the engine off, press and release the brake pedal several times. When brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the brake pedal, start the engine. The pedal height should drop a little.
3. With the brake pedal depressed, stop the engine. Keeping the pedal depressed for about 30 seconds, the pedal height should not change.
4. Run the engine for 1 minute without depressing the brake pedal, then turn it off. Depress the brake pedal several times. The pedal travel distance will de-

crease gradually with each depression as the vacuum is released from the booster.

If the brakes do not operate properly, see your INFINITI dealer.

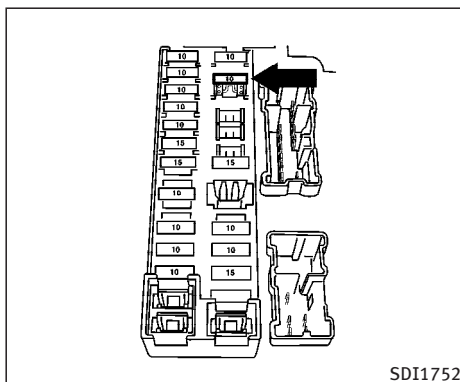
FUSES



Some vehicles are equipped with engine compartment and passenger compartment fuse boxes that use only Type (A) fuses. Other vehicles are equipped with Type (A) fuses in the engine compartment fuse box and Type (B) in the passenger compartment fuse box.

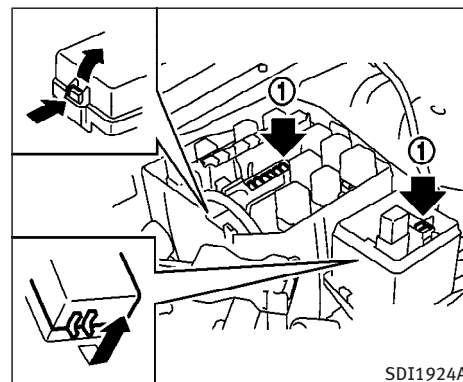
Type (A) fuses are provided as spare fuses. They are stored in the passenger compartment fuse box.

Type (A) fuses can be installed in the engine compartment and passenger compartment fuse boxes.



If a type (A) fuse is used to replace a type (B) fuse, the type (A) fuse will not be level with the fuse pocket as shown in the illustration. This will not affect the performance of the fuse. Make sure the fuse is installed in the fuse box securely.

Type (B) fuses cannot be installed in the underhood fuse boxes. Only use type (A) fuses in the underhood fuse boxes.



ENGINE COMPARTMENT



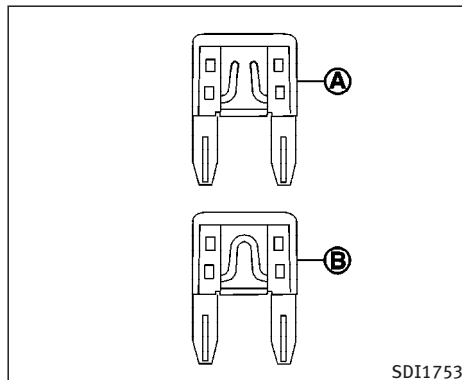
CAUTION

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.

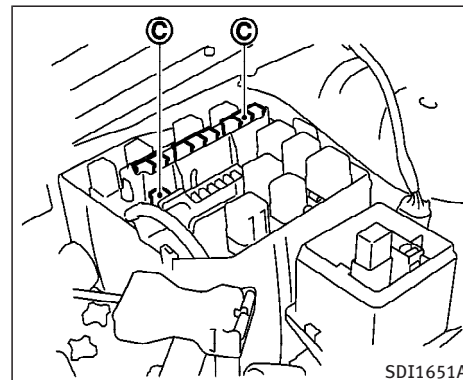
1. Be sure the ignition switch is in the "LOCK" position.

2. Be sure the headlight switch is in the "OFF" position.
3. Open the engine hood.
4. Remove the fuse/fusible link cover.
5. Locate the fuse which needs to be replaced.
6. Remove the fuse ① using the fuse puller located in the passenger compartment.



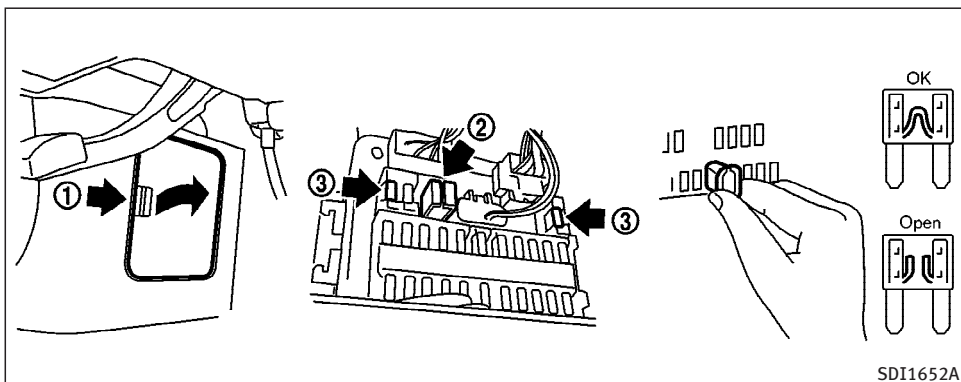
7. If the fuse is open ①, replace it with a new fuse ②.

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by an INFINITI dealer.



Fusible links

If any electrical equipment does not operate and the fuses are in good condition, check the fusible links ③. If any of these fusible links are melted, replace only with genuine INFINITI parts.



SDI1652A

PASSENGER COMPARTMENT



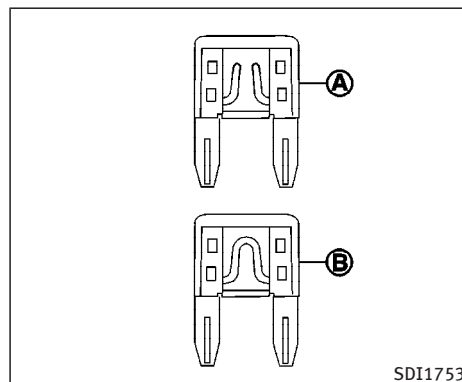
CAUTION

Never use a fuse of a higher or lower amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition switch is in the "LOCK" position.

2. Be sure the headlight switch is in the "OFF" position.
3. Remove the fuse box cover ①.
4. Locate the fuse which needs to be replaced.
5. Remove the fuse using the fuse puller ②.



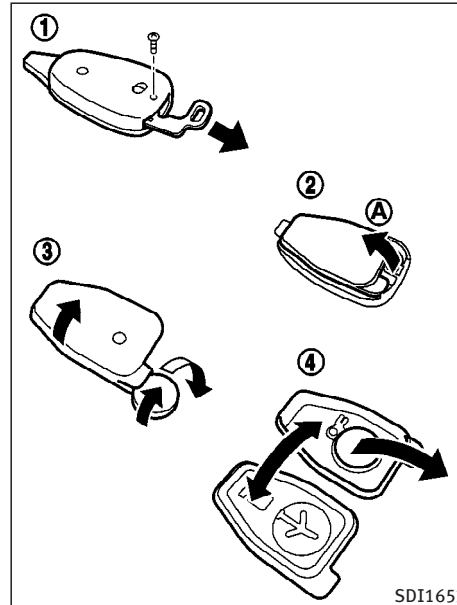
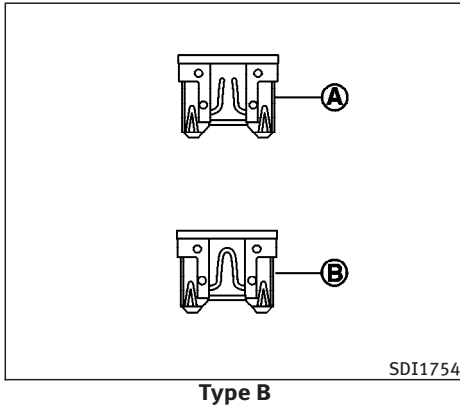
SDI1753

Type A

6. If the fuse is open (A), replace it with a new fuse (3) (B).

If the new fuse also opens, after installing, have the electrical system checked, and if necessary repaired, by an INFINITI dealer.

ELECTRONIC KEY BATTERY REPLACEMENT



Replace the battery as follows:

1. Remove the emergency key and the screw from the electronic key.
2. Remove the outer case (A).

3. Open the inner case using a suitable tool.
4. Replace the battery with a new one.
Recommended battery: CR2025 or equivalent

Make sure that the ⊕ side faces the bottom of the case.

5. Close the inner case securely.
6. Assemble the outer case.
7. Push the key button two or three times to check its operation.

See your INFINITI dealer if you need any assistance for replacement.

If the battery is removed for any reason other than replacement, perform step 5 above.

- An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.
- The electronic key is water-proof; however, if it does get wet, immediately wipe completely dry.

FCC Notice:

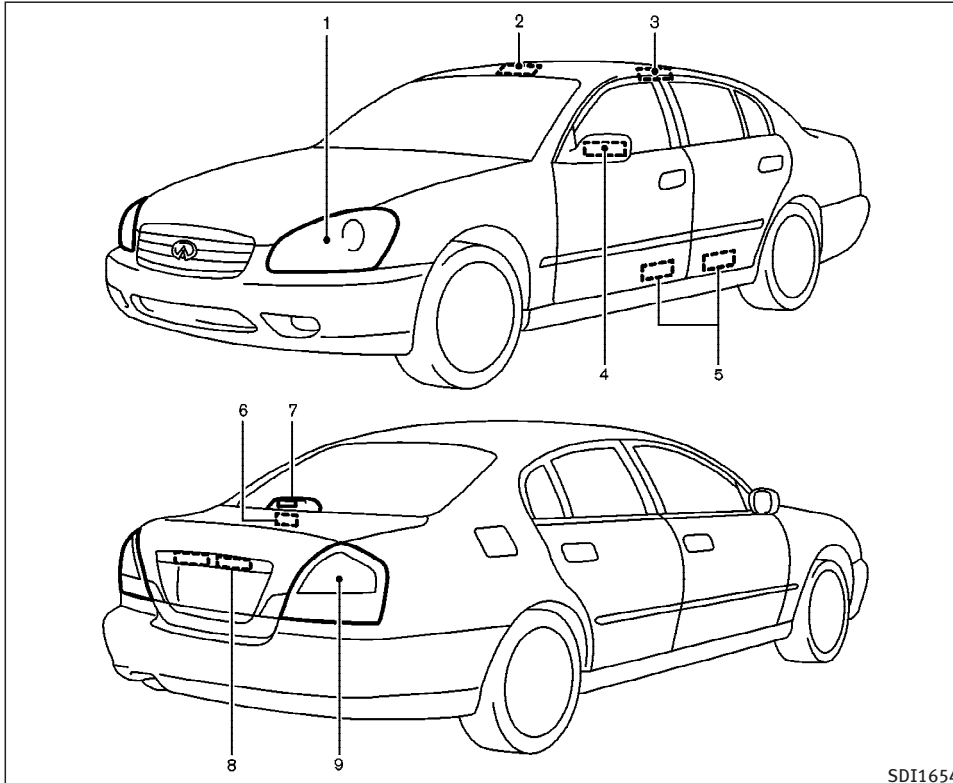
Changes or modifications not expressly approved by the party responsible compli-

ance 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.

LIGHTS



1. Headlight, clearance, front turn signal and side marker light
2. Front personal light
3. Rear personal light
4. Side turn signal light
5. Step light
6. Trunk light
7. High-mounted stop light
8. License plate light
9. Rear combination light (Back-up, turn signal and tail/stop/side marker)

SDI1654

HEADLIGHTS

Replacing the xenon headlight bulb (low-beam)



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 dealer. For additional information, see “Headlight and turn signal switch” in the “2. Instruments and controls” section.

If replacement is required, see an INFINITI dealer.

Replacing the halogen headlight bulb (high-beam)

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. If replacement is required, see your INFINITI dealer for servicing.



CAUTION

- High pressure halogen gas is sealed inside the bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.
- Only touch the plastic base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect bulb life and/or headlight performance.
- Use the same number and wattage as originally installed:
Wattage 60
Bulb no. HB3
- Do not leave the bulb out of the headlight reflector for a long period of time as dust, moisture, and smoke may enter the headlight body and affect the performance of the headlight.

Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact your INFINITI dealer.

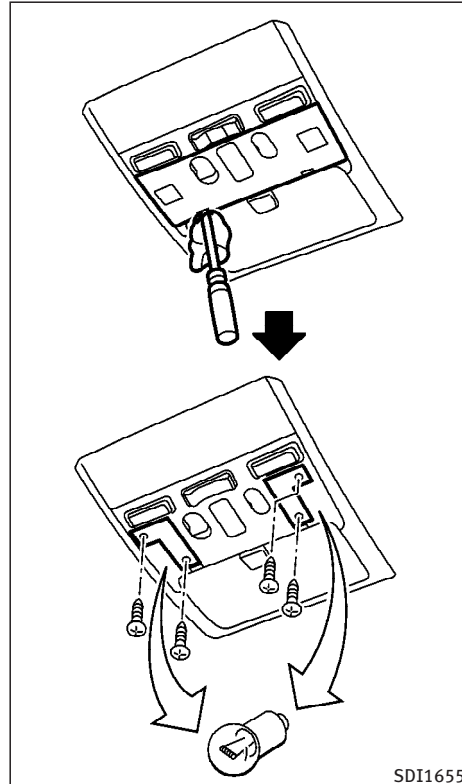
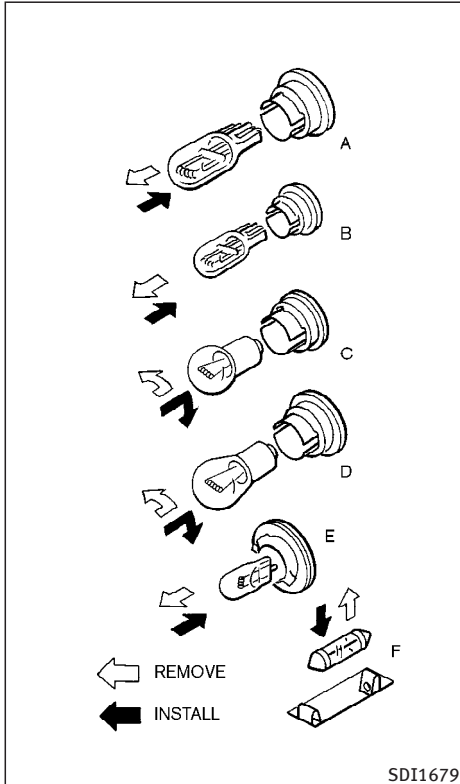
EXTERIOR AND INTERIOR LIGHTS

Item	Wattage (W)	Bulb No.
Front turn signal light*	21	WY21W
Front fog light*	51	HB4
Clearance light*	5	W5W
Front side marker light*	5	W5W
Side turn signal light*	1	—
Rear combination light*		
back-up	18	921
turn signal	21	7440A
stop/tail/side marker	LED	—
License plate light*	5	168
Front personal light		
Spot light	8	—
Console light	1.4	—
Rear personal light	8	—
Vanity mirror light	1.4	—
Step light	2.7	158
Trunk light	3.4	158
High-mounted stop light	18	—

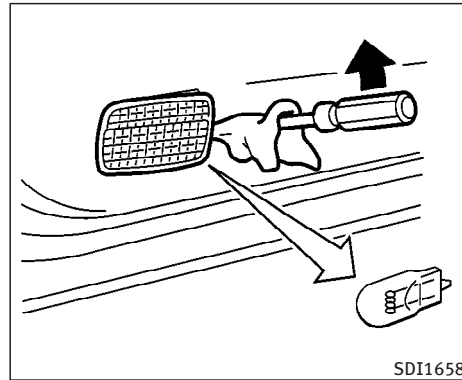
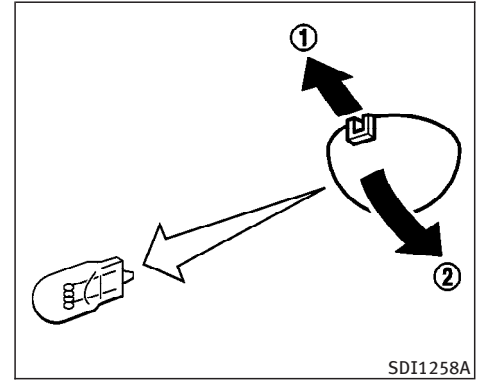
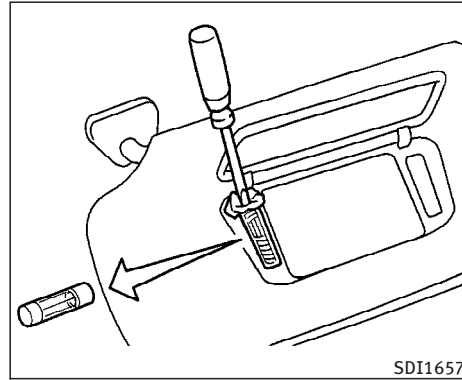
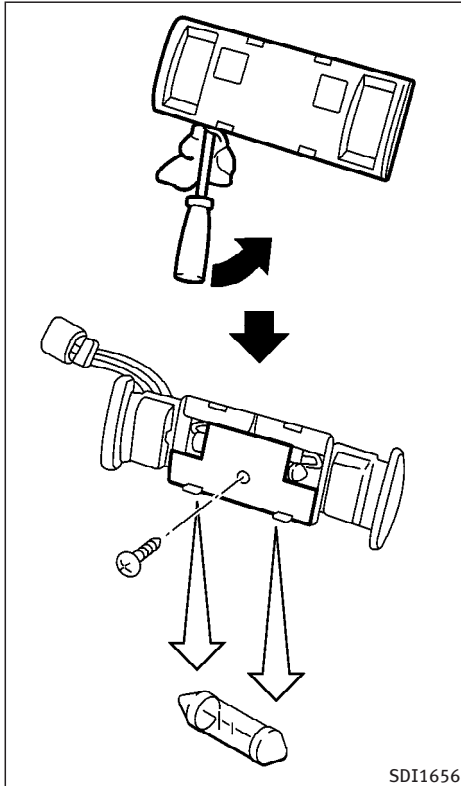
*: See an INFINITI dealer for replacement.

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.



To remove the light bulb, push in the bulb toward the front and turn, and then pull it out toward the rear.



WHEELS AND TIRES

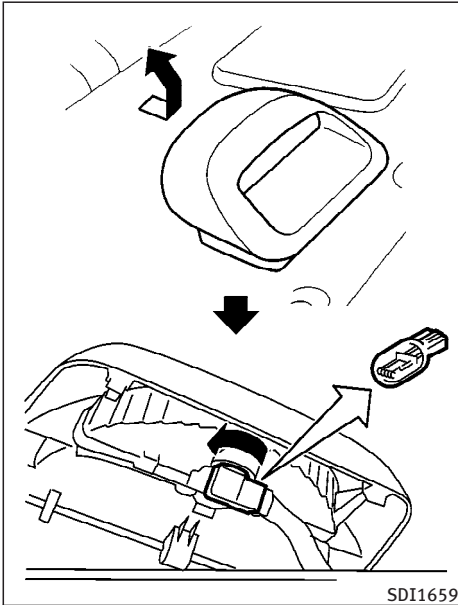
TIRE PRESSURE

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, one or more of your tires is significantly under-inflated. If equipped, the system also displays pressure of all tires (except the spare tire) on the display screen by sending a signal from a sensor that is installed in each wheel.

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, refer to “Low tire pressure warning light” in the “2. Instruments and controls” section, “Tire pressure information” in the “4. Monitor, climate, audio and voice-activated control systems” section, “Tire pressure monitoring system (TPMS)” in the “5. Starting and driving” section, and “Flat tire” in the “6. In case of emergency” section.



Tire inflation pressure

Check the tire pressures (including the spare) often and always prior to long distance trips. The recommended tire pressure specifications are shown on the F.M.V.S.S./C.M.V.S.S. label and/or 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 or rear 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.

Set the tire pressure to the normal cold tire inflation pressure when the vehicle speed or load is reduced.

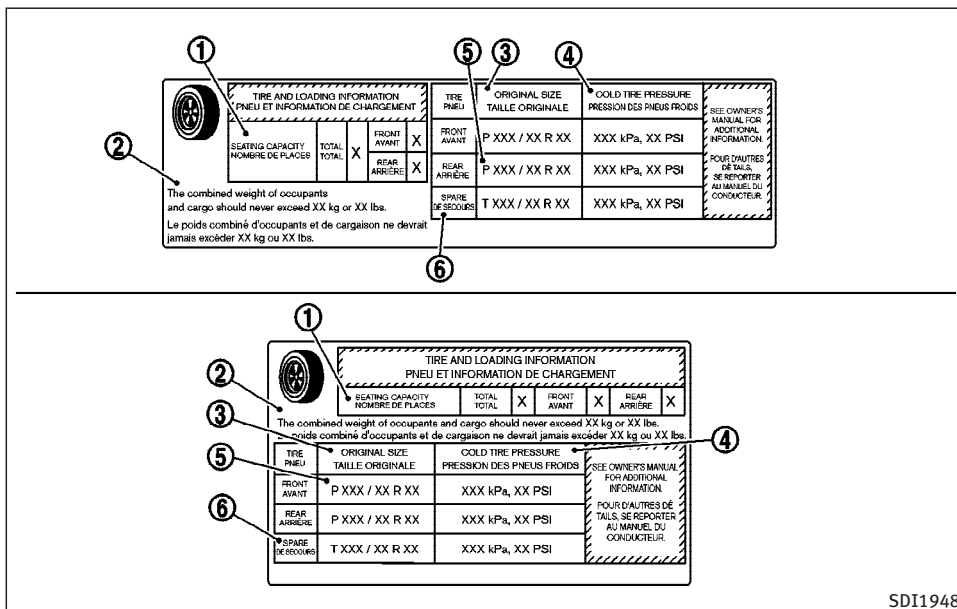
Incorrect tire pressure, including under inflation, may adversely affect tire life and vehicle handling.



WARNING

- **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.**
- **Do not drive your vehicle over 85 MPH (137 km/h) unless it is equipped with high speed rated tires. Driving faster than 85 MPH (137 km/h) may result in tire failure, loss of control and possible injury.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Informa-**

tion Booklet.



③ Original size: The size of the tires originally installed on the vehicle at the factory.

④ 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.

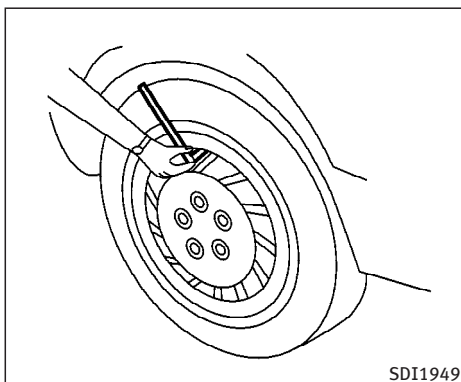
⑤ Tire size — refer to “Tire labeling” later in this section.

⑥ Spare tire size or compact spare tire size (if so equipped)

Tire and loading information label

① Seating capacity: The maximum number of occupants that can be seated in the vehicle.

② Vehicle load limit: See loading information in the “9. Technical and consumer information” section.

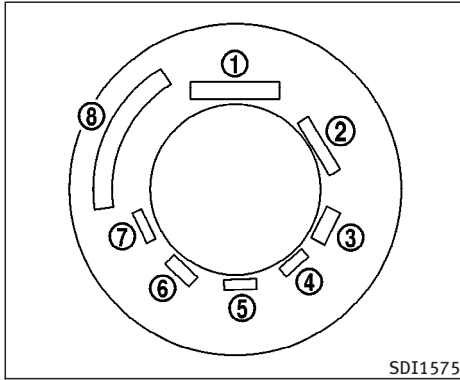


Checking tire pressure

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 Inflation Pressure
Front Original Tire	P225/55R17 P245/45R18 245/40R19	230 kPa (33 psi)
Rear Original Tire	P225/55R17 P245/45R18 245/40R19	230 kPa (33 psi)
Spare Tire	T145/90D16	420 kPa (60 psi)

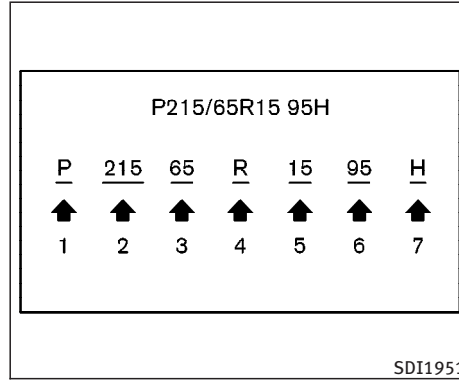


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EXAMPLE

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.



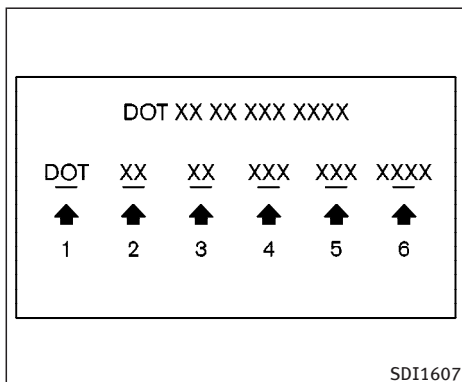
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EXAMPLE

① Tire size (example: P215/65R15 95H)

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 (65): This number, known as the aspect ratio, gives the tire’s ratio of height to width.
4. R: The “R” stands for radial.
5. Two-digit number (15): This number is the wheel or rim diameter in inches.
6. Two- or three-digit number (95): 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.
7. H: Tire speed rating. You should not drive the vehicle faster than the tire speed rating.



EXAMPLE

② TIN (Tire Identification Number) for 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



CAUTION

- **When changing or replacing tires, be sure all four tires are of the same type (i.e., Summer, All Season, Snow or Run-flat) and construction. An INFINITI dealer may be able to help you with information about tire type, size, speed rating and availability.**
- **Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.**

- **Replacing tires with those not originally specified by INFINITI could affect the proper operation of the low tire pressure warning system.**
- **For additional information regarding tires, refer to “Important Tire Safety Information” (US) or “Tire Safety Information” (Canada) in the Warranty Information booklet.**

All season tires

INFINITI specifies all season tires on some models to provide good performance for use all year round, 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 operate your vehicle in snowy or icy conditions, INFINITI recommends the use of SNOW or ALL SEASON tires on all four wheels.

For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

Run-flat tires

If your vehicle is equipped with run-flat tires, you can continue driving to a safe location even if they are punctured. Always use run-flat tires of the same size on all four wheels. Mixing tire sizes or construction may reduce vehicle handling stability. If necessary, contact your INFINITI dealer for assistance.

- Frequently check the tire pressure information display on the monitor screen and adjust pressure of each tire properly. (The order of the tire pressure figures displayed on the screen does not correspond with the actual order of the tire position.)
- If the vehicle is being driven with a flat tire or very low tire pressure, the low tire pressure warning system will activate and warn you of it by the low tire pressure warning light or a WARNING displayed on the monitor screen. If this occurs, pull off the road to a safe location and stop the vehicle as soon as possible. Check the tire pressure for all four wheels and adjust the pressure. If a tire is flat, replace it with a spare tire as soon as possible.



WARNING

- Although you can continue driving with a punctured run-flat tire, remember that vehicle handling stability is reduced, which could lead to an accident and personal injury. Also, driving a long distance at high speeds may damage the tire. To drive safely:
 - Do not drive at speeds above 55 MPH (88 km/h) and do not drive more than 50 miles (80 km) with a punctured run-flat tire. A punctured tire may burst and cause a serious accident, resulting in personal injury.
 - Drive safely at reduced speeds. Avoid hard cornering or braking, which may cause you to lose control of the vehicle.
 - If a rear tire is punctured, replace it with a non-punctured tire, especially when driving on rainy, snowy or icy roads.



CAUTION

- Always have punctured run-flat tires replaced.
- Never install tire chains on a punctured run-flat tire, as this could damage your vehicle.
- Avoid driving over any projection or pothole, as the clearance between the vehicle and the ground is smaller than normal.
- Do not enter an automated car wash with a punctured run-flat tire.
- Have the punctured tire replaced by your INFINITI dealer as soon as possible, as the tire's performance capability is reduced.

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 of proper size for the tires on your vehicle and are installed according to the chain manufacturer's instructions. **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.

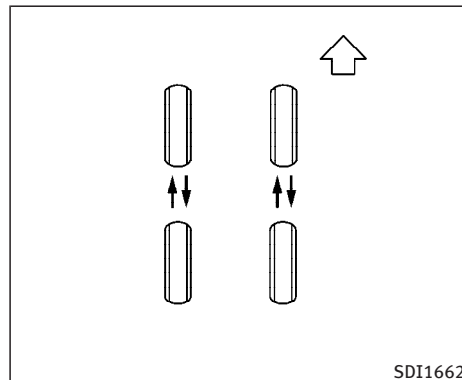
Tire chains must be installed only on the rear wheels and not on the front wheels.

Do not drive with tire chains on paved roads which are clear of snow. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.



CAUTION

- Do not use tire chains on dry roads.
- Never install tire chains on a T-type spare tire or a punctured run-flat tire, as this could damage your vehicle.



CHANGING WHEELS AND TIRES

Tire rotation

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)**

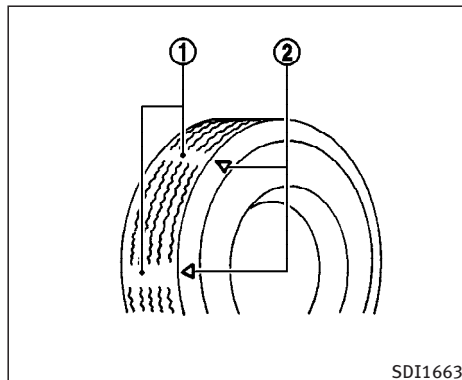
Maintenance and do-it-yourself 8-41

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to 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

- Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.
- The original tires have built-in tread wear indicators. When wear indicators are visible, the tire(s) should be replaced.
- Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact an INFINITI dealer.
- 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, speed rating and load carrying capacity as the original equipment tires. 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 different brands, construction (bias, bias-belted radial, run-flat), 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. Refer to “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, tire pressure will not be indicated, the TPMS will not function and the low tire pressure warning light will flash. Contact your INFINITI dealer 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 TPMS.
- Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.
- The use of retread tire is not recommended.

- 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 driving wheels on the vehicle could lead to transmission 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

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.

- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. 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.

Spare tire (T-type spare tire - if so equipped)

When a spare tire is mounted (t-type or conventional), the low tire pressure warning system will not function.

Observe the following precautions if the T-type spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.



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 tires 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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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

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.

	Capacity (Approximate)			Recommended specifications
	US measure	Imp measure	Liter	
Fuel	21-1/8 gal	17-5/8 gal	80	Unleaded premium gasoline with an octane rating of at least 91 AKI (RON 96)*1
Engine oil (Drain and refill)*6				<ul style="list-style-type: none"> • API Certification Mark*2, *3 • API grade SJ or SL, Energy Conserving*2, *3 • ILSAC grade GF-II & GF-III*2, *3
With oil filter change	5-7/8 qt	4-7/8 qt	5.6	
Without oil filter change	5-1/4 qt	4-3/8 qt	5.0	
Cooling system				Genuine Nissan Long Life Antifreeze/Coolant or equivalent
With reservoir	10-3/8 qt	8-5/8 qt	9.8	
Reservoir	7/8 qt	3/4 qt	0.8	
Power steering fluid (PSF)	Refill to the proper oil level according to the instructions in the “8. Maintenance and do-it-yourself” section			Genuine Nissan PSF or equivalent*4
Brake fluid				Genuine Nissan Super Heavy Duty Brake Fluid*7 or equivalent DOT 3
Automatic transmission fluid	—	—	—	Genuine Nissan Matic J ATF*5
Differential gear oil	—	—	—	API GL-5 Viscosity SAE 80W-90*8
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a)
Air conditioning system lubricants				Nissan A/C System Oil Type S or equivalent
Windshield washer fluid				Genuine Nissan Windshield Washer Concentrate Cleaner & Antifreeze or equivalent.

*1: For additional information, see later in this section for fuel recommendation.

*2: For additional information, see later in this section for engine oil and oil filter recommendation.

*3: For additional information, see later in this section for recommended SAE viscosity number.

*4: For Canada, Nissan Automatic Transmission Fluid (ATF), DEXRONTMIII/MERCONTM, or equivalent ATF may also be used.

*5: **Using automatic transmission fluid other than Genuine Nissan Matic J 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.**

*6: For additional information, see “Engine oil” in the “8. Maintenance and do-it-yourself” section for changing engine oil.

*7: Available in mainland US through your INFINITI dealer.

*8: For hot climates, viscosity SAE 90 is suitable for ambient temperatures above 0°C (32°F).

9-2 Technical and consumer information

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



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.

- **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.**

Gasoline specifications

INFINITI recommends using gasoline that meets the World-wide Fuel Charter 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 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 ve-**

hicle 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 and hard hot starting are experienced 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:

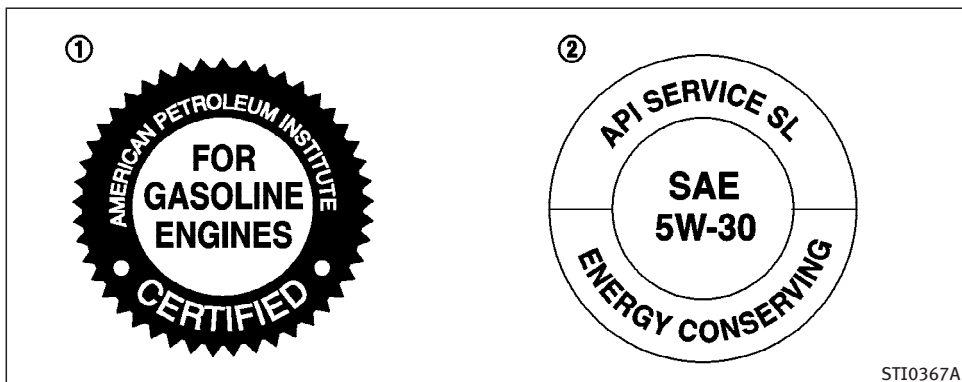
fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvent or similar ingredients that can be harmful to the fuel system and engine.

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 your dealer 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 dealer 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.



1. API certification mark
2. API service symbol

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. The chart of recommended SAE viscosity number shows the recommended oil viscosities for the expected ambient temperatures. 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

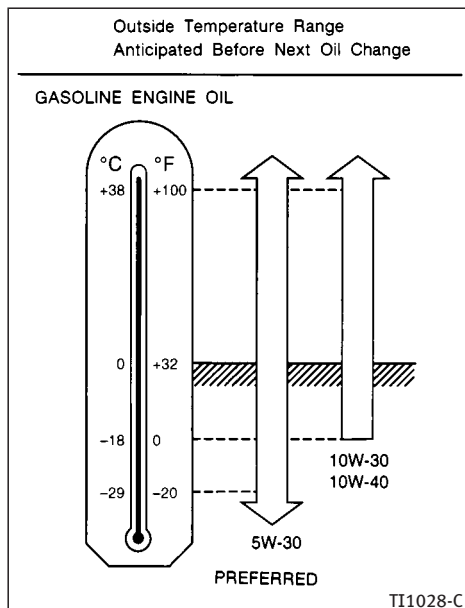
specified quality oils and filters. Oil and filter other than the specified quality, or oil and filter change intervals longer than recommended could reduce engine life. Damage to engines caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the 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,
- towing a trailer,
- stop and go commuting,
- aggressive driving.

Refer to the “INFINITI Service and Maintenance Guide” for the maintenance schedule.

9-6 Technical and consumer information



RECOMMENDED SAE VISCOSITY NUMBER

SAE 5W-30 viscosity oil is preferred for all temperatures. SAE 10W-30, 10W-40 viscosity oil may be used if the outside tem-

perature is above 0°F (-18°C).

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 dealer has the trained technicians and equipment needed to re-

cover and recycle your air conditioning system refrigerant.

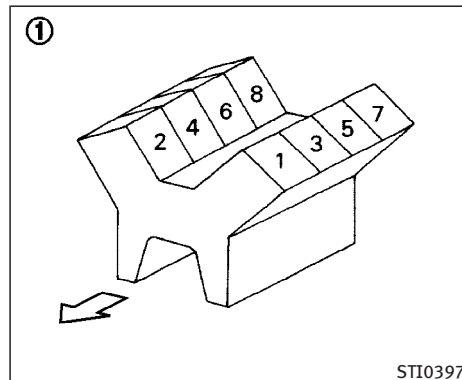
Contact your INFINITI dealer when servicing your air conditioning system.

SPECIFICATIONS

ENGINE

Model	VK45DE	
Type	Gasoline, 4-cycle	
Cylinder arrangement	8-cylinder, V-slanted at 90°	
Bore x Stroke	in (mm)	3.661 x 3.256 (93.0 x 82.7)
Displacement	cu in (cm ³)	274.2 (4,494)
Firing order ①	1-8-7-3-6-5-4-2	
Idle speed	rpm	
Ignition timing (BTDC)	degree/rpm	See the emission control information label on the underside of the hood.
CO percentage at idle speed	[No air]	
Spark plug	Standard	PLFR5A-11
	Hot type	PLFR4A-11
	Cold type	PLFR6A-11
Camshaft operation	Timing chain	
Alternator belt size		
Width x Length	in (mm)	0.841 x 76.38 (21.36 x 1,940)

The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations.



WHEELS AND TIRES

	Type	Size	Offset	in (mm)
Road wheel	Aluminum	17 x 7-1/2J	1.38	(35)
		18 x 7-1/2J*	1.38	(35)
		18 x 8J	1.57	(40)
		19 x 8-1/2J	1.57	(40)
Tire	Conventional	P225/55R17 P245/45R18 245/40R19		
	Spare	T145/90D16 Conventional		
Pressure (cold)	Conventional	33 PSI (230 kPa)		
	Spare (T-type)	60 PSI (420 kPa)		

*: Model with chrome wheel

DIMENSIONS AND WEIGHTS

Overall length	in (mm)	200.8 (5,100)
Overall width	in (mm)	72.6 (1,845)
Overall height	in (mm)	58.7 (1,490)
Front tread	in (mm)	62.6 (1,590)* 62.2 (1,580)**
Rear tread	in (mm)	61.8 (1,570)* 61.4 (1,560)**
Wheelbase	in (mm)	113.0 (2,870)

*: 17 inch wheel and 18 inch chrome wheel models

** : 18 inch without chrome wheel and 19 inch wheel 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.

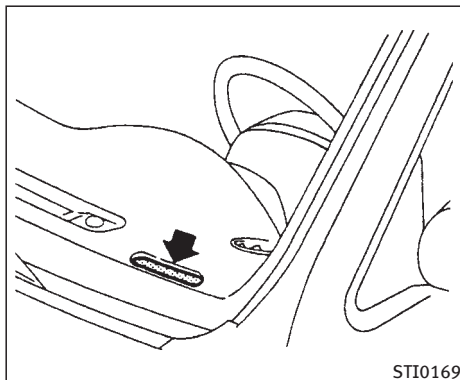
Using fuel with too low an octane rating may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

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.

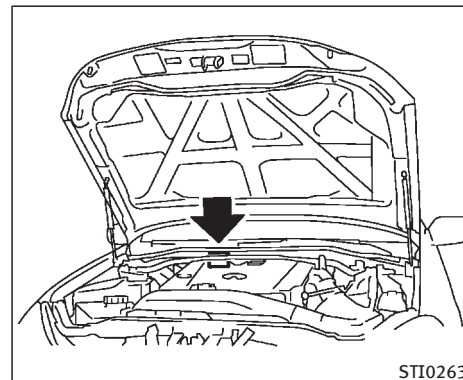
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. INFINITI is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION



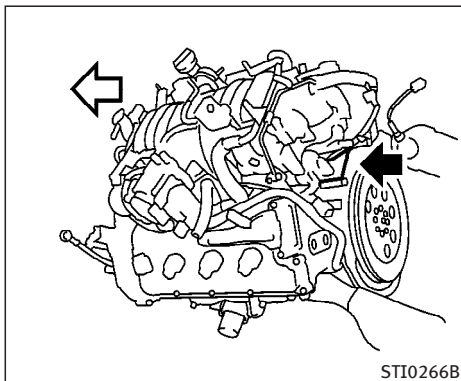
VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.



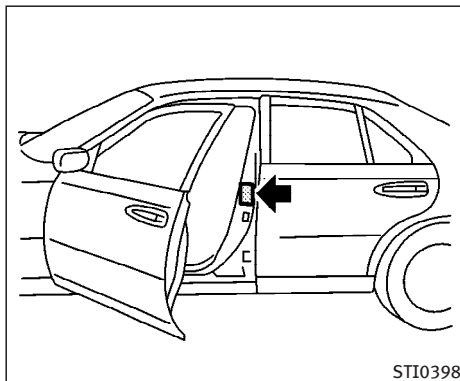
VEHICLE IDENTIFICATION NUMBER (Chassis number)

The number is stamped as shown.



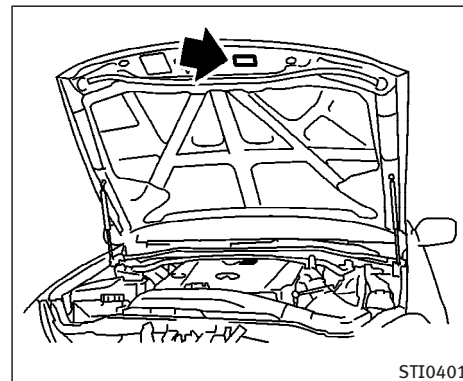
ENGINE SERIAL NUMBER

The number is stamped on the engine as shown.



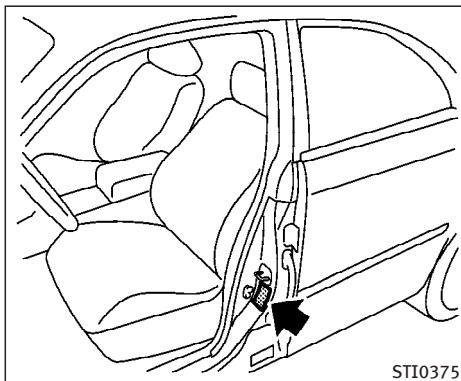
F.M.V.S.S./C.M.V.S.S. CERTIFICATION LABEL

The Federal Motor Vehicle Safety Standards (F.M.V.S.S.) or Canadian Motor Vehicle Safety Standards (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.



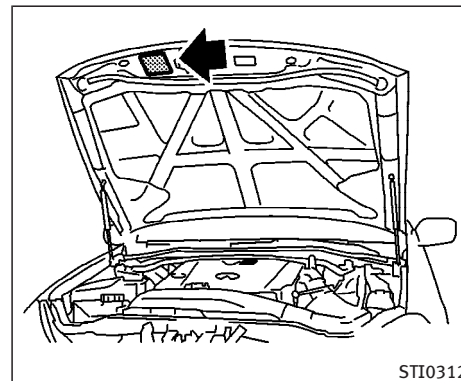
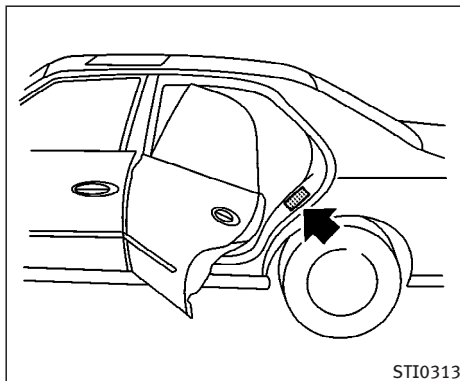
EMISSION CONTROL INFORMATION LABEL

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.

INSTALLING FRONT LICENSE PLATE

Use the following steps to mount the license plate:

Before mounting the license plate, confirm that the following parts are enclosed in the vinyl bag.

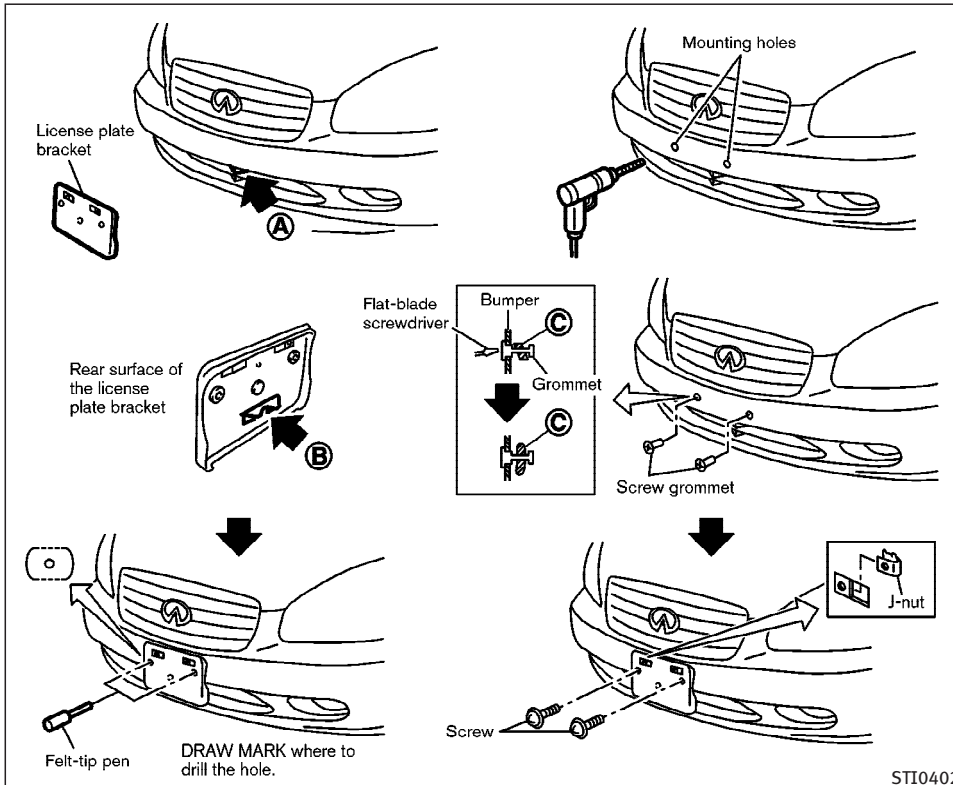
- License plate bracket
- J-nut x 2
- Screw x 2
- Screw grommet x 2

1. Temporarily place the license plate bracket while aligning part (A) of the front bumper with part (B) of the rear surface of the license plate bracket.

2. To determine where to drill the hole, mark along both sides of the mounting hole by using a felt-tip pen.

3. Remove the license plate bracket and connect the arcs to form ovals. Mark the point in the center of each oval. These are the pilot drilling locations.

4. Carefully drill two pilot holes using a 0.39 inch (10 mm) drill bit at the marked locations. **(Be sure that the drill only goes through the fascia, or damage to the nut may occur.)**



VEHICLE LOADING INFORMATION



WARNING

- **It is extremely dangerous to ride in a cargo area inside a 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 your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

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 as-

sembly. 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) - 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 subtracted weight of occupants from the load limit.

weight. Examples are shown in the following illustration.

VEHICLE LOAD CAPACITY

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

Example

$$\begin{array}{l} \text{Load limit} \\ 1,400 \text{ lb} \\ (640 \text{ kg}) \end{array} - \left(\begin{array}{l} \text{Occupants} \\ \text{Luggage} \\ \text{Trailer Tongue} \\ \text{Weight} \end{array} \right) = \begin{array}{l} \text{Remaining available} \\ \text{cargo and luggage} \\ \text{load capacity} = \\ 740 \text{ lb} \\ (336 \text{ kg}) \end{array}$$

$150 \text{ lb} \times 2 = 300 \text{ lb}$ $30 \text{ lb} \times 2 = 60 \text{ lb}$ 300 lb
(70 kg) (135 kg) (14 kg) (27 kg) (135 kg)

$$\begin{array}{l} \text{Load limit} \\ 1,400 \text{ lb} \\ (640 \text{ kg}) \end{array} - \left(\begin{array}{l} \text{Occupants} \\ \text{Luggage} \end{array} \right) = \begin{array}{l} \text{Remaining available} \\ \text{cargo and luggage} \\ \text{load capacity} = \\ 1,040 \text{ lb} \\ (472 \text{ kg}) \end{array}$$

$150 \text{ lb} \times 2 = 300 \text{ lb}$ $30 \text{ lb} \times 2 = 60 \text{ lb}$
(70 kg) (135 kg) (14 kg) (27 kg)

$$\begin{array}{l} \text{Load limit} \\ 1,400 \text{ lb} \\ (640 \text{ kg}) \end{array} - \left(\begin{array}{l} \text{Occupants} \\ \text{Luggage} \end{array} \right) = \begin{array}{l} \text{Remaining available} \\ \text{cargo and luggage} \\ \text{load capacity} = \\ 500 \text{ lb} \\ (227 \text{ kg}) \end{array}$$

$150 \text{ lb} \times 5 = 750 \text{ lb}$ $30 \text{ lb} \times 5 = 150 \text{ lb}$
(70 kg) (340 kg) (14 kg) (70 kg)

STI0445

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 1,400 lbs. and there will be five 150 lb. passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs. ($1,400 - 750 (5 \times 150) = 650$ lbs.) or ($640 - 340 (5 \times 70) = 300$ 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.

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

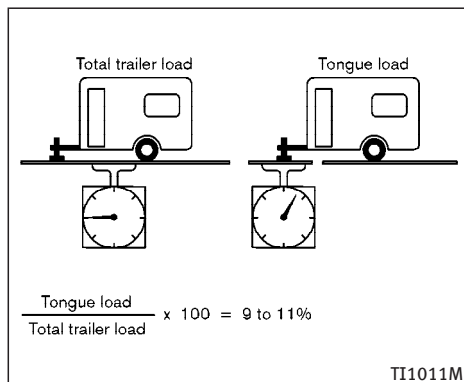
- **Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**
- **Do not load your vehicle any heavier than the GVWR or the maximum front and rear 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 not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure 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 exceeded, move or remove items to bring all weights below the ratings.

TOWING A TRAILER



WARNING

Overloading or improper loading of a trailer and its cargo can adversely affect vehicle handling, braking and performance and may lead to accidents.



CAUTION

- Do not tow a trailer or haul a heavy load for the first 500 miles (800 km).

Your engine, axle or other parts could be damaged.

- For the first 500 miles (800 km) that you tow a trailer, do not drive over 50 MPH (80 km/h) and do not make starts at full throttle. This helps the engine and other parts of your vehicle wear in at the heavier loads.

Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer will place additional loads on your vehicle's engine, drive train, steering, braking and other systems.

An INFINITI Towing Guide (U.S. only) is available on the website at www.infiniti.com. This guide includes information on trailer towing capability and the special equipment required for towing.

MAXIMUM LOAD LIMITS

Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the Towing Load/Specification Chart found later in this section. The total trailer load equals trailer weight plus its cargo weight.

Towing loads greater than specified or using improper towing equipment could adversely affect vehicle handling, braking and performance. The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced on very steep grades or in low traction situations (for example, on slippery boat ramps).



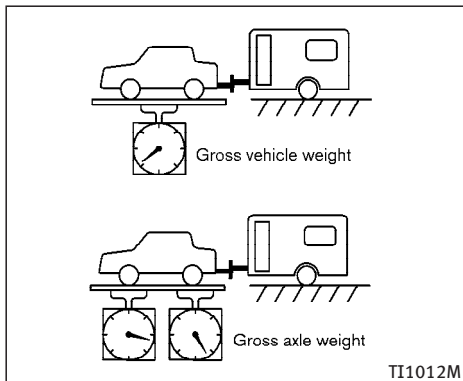
CAUTION

Vehicle damage resulting from improper towing procedures are not covered by INFINITI warranties.

Tongue load

Keep the tongue load between 9 and 11%

of the total trailer load within the maximum tongue load limits shown in the following Towing Load/Specification chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/ maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed GVWR shown on the F.M.V.S.S. certification label. The gross vehicle weight equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear gross axle weight must not exceed GAWR shown on the F.M.V.S.S. certification label.

TOWING LOAD/SPECIFICATION

TOWING LOAD/SPECIFICATION CHART	
Unit: lb (kg)	
MAXIMUM TOWING LOAD	1,000 (454)
MAXIMUM TONGUE LOAD	110 (49)

TOWING SAFETY

Trailer hitch

Choose a proper hitch for your vehicle and trailer. Make sure the trailer hitch is securely attached to the vehicle, to help avoid personal injury or property damage due to sway caused by crosswinds, rough road surfaces or passing trucks.

Hitch ball

Choose a hitch ball of the proper size and weight rating for your trailer:

- The required hitch ball size is stamped on most trailer couplers. Most hitch balls also have the size printed on top of the ball.
- Choose the proper class hitch ball based on the trailer weight.
- The diameter of the threaded shank of

the hitch ball must be matched to the ball mount hole diameter. The hitch ball shank should be no more than 1/16" smaller than the hole in the ball mount.

- The threaded shank of the hitch ball must be long enough to be properly secured to the ball mount. There should be at least 2 threads showing beyond the lock washer and nut.

Class I hitch

Class I trailer hitch equipment (receiver, ball mount and hitch ball) can be used to tow trailers of a maximum weight of 2,000 lb (909 kg).

You may add Class I trailer hitch equipment to the vehicle that has a 2,000 lb (909 kg) maximum weight rating, but your vehicle is only capable of towing the maximum trailer weights shown in the Towing Load/Specification Chart earlier in this section.



CAUTION

- Do not use axle-mounted hitches.

- **The hitch should not be attached to or affect the operation of the impact-absorbing bumper.**
- **Do not modify the vehicle exhaust system, brake system, etc. to install a trailer hitch.**
- **To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the hitch and/or receiver when not in use. After the hitch is removed, seal the bolt holes to prevent exhaust fumes, water or dust from entering the passenger compartment.**
- **Regularly check that all trailer hitch mounting bolts are securely mounted.**

Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the tire and loading information label.
- Trailer tire condition, size, load rating and proper inflation pressure should

be in accordance with the trailer and tire manufacturers' specifications.

Safety chains

Always use a suitable chain between your vehicle and the trailer. The safety chains should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. Be sure to leave enough slack in the chains to permit turning corners.

Trailer lights



CAUTION

When splicing into the vehicle electrical system, a commercially available power-type module/converter must be used to provide power for all trailer lighting. This unit uses the vehicle battery as a direct power source for all trailer lights while using the vehicle tail light, stoplight and turn signal circuits as a signal source. The module/converter must draw no more than 15 milliamps from the stop and tail lamp circuits. Using a

module/converter that exceeds these power requirements may damage the vehicle's electrical system. See a reputable trailer dealer to obtain the proper equipment and to have it installed.

Trailer lights should comply with federal and/or local regulations. For assistance in hooking up trailer lights, contact an INFINITI dealer or reputable trailer dealer.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed.



WARNING

Never connect a trailer brake system directly to the vehicle brake system.

Pre-towing tips

- Be certain your vehicle maintains a level position when a loaded or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal

nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.

- Always secure items in the trailer to prevent load shifts while driving.
- Load the trailer so approximately 60% of the trailer load is in the front half and 40% is in the back half.
- Check your hitch, trailer tire pressure, vehicle tire pressure, trailer light operation, and trailer wheel lug nuts every time you attach a trailer to the vehicle.
- Be certain your rear view mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.

Trailer towing tips

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability, and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed. Some states or provinces have specific speed limits for vehicles that are towing trailers. Obey the local speed limits.
- When backing up, hold the bottom of the steering wheel with one hand. Move your hand in the direction in which you want the trailer to go. Make small corrections and back up slowly. If possible, have someone guide you when you are backing up.
- Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so, and if your vehicle is equipped with automatic transmission, first block the wheels and apply the parking brake, and then move the transmission selector lever into the P (Park) position. If you move the selector lever to the P (Park) position before blocking the wheels and applying the

parking brake, transmission damage could occur.

- When going down a hill, shift into a lower gear and use the engine braking effect. When going up a long grade, downshift the transmission to a lower gear and reduce speed to reduce chances of engine overloading and/or overheating.
- If the engine coolant rises to an extremely high temperature when the air conditioning system is on, turn off the air conditioner. Coolant heat can be additionally vented by opening the windows, switching the fan control to high and setting the temperature control to the HOT position.
- Trailer towing requires more fuel than normal circumstances.
- Avoid towing a trailer for the first 500 miles (800 km).
- Have your vehicle serviced more often than at intervals specified in the recommended maintenance schedule in the INFINITI Service and Maintenance Guide.
- When making a turn, your trailer wheels will be closer to the inside of the turn

than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.

- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling. If swaying does occur, firmly grip the steering wheel, steer straight ahead, and immediately (but gradually) reduce vehicle speed. This combination will help stabilize the vehicle. Never increase speed.
- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember the length of the trailer must also pass the other vehicle before you can safely change lanes.
- To maintain engine braking efficiency and electrical charging performance, do not use fifth position.
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.

- Increase your following distance to allow for greater stopping distances while towing a trailer. Anticipate stops and brake gradually.
- Do not use cruise control while towing a trailer.
- Check your hitch, trailer wiring harness connections, and trailer wheel lug nuts after 50 miles (80 km) of travel and at every break.
- When stopped in traffic for long periods of time in hot weather, put the vehicle in the P (Park) position.

When towing a trailer, change fluid in the transmission more frequently.

For additional information, see the “8. Maintenance and do-it-yourself” section earlier in this manual.

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.



CAUTION

- Failure to follow these guidelines can result in severe transmission damage.
- Whenever flat towing your vehicle, always tow forward, never backward.
- 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.
- For emergency towing procedures refer to “Towing Recommended by INFINITI” in the “6. In case of emergency” section of this manual.

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 the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

Traction AA, A, B and C

The traction grades from highest to lowest are AA, A, B and C. Those grades represent the tire’s ability to stop on wet pavement

as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.



WARNING

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature A, B and C

The temperature grades are A (the highest), B, and C, representing the tire’s resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance which all passenger car tires must meet under the 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 47038, Gardena,
CA 90247-6838
- Nissan Canada Inc.
5290 Orbitor Drive
Mississauga, Ontario,
L4W 4Z5

REPORTING SAFETY DEFECTS (US only)

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 dealer, 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.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST (US only)

Due to legal requirements in some states, 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. Turn the ignition switch ON without starting the engine. If the Malfunction Indicator Lamp (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".

If the MIL indicates the vehicle is in a "not ready" condition, drive the vehicle through the following pattern to set the vehicle to the ready condition. If you cannot or do not want to perform the driving pattern, an INFINITI dealer can conduct it for you.



WARNING

Always drive the vehicle in a safe and prudent manner according to traffic conditions and obey all traffic laws.

1. Start the engine. Allow the engine to idle until the engine coolant temperature gauge needle points between the C and H (normal operating temperature).
2. Accelerate the vehicle to 55 MPH (88 km/h), then quickly release the accelerator pedal completely and keep it released for at least 10 seconds.
3. Quickly depress the accelerator pedal for a moment, then drive the vehicle at a speed of 53 to 60 MPH (86 to 96 km/h) for at least 9 minutes.
4. Stop the vehicle. Leave the engine running.
5. Accelerate the vehicle to 35 MPH (55 km/h) and maintain the speed for 20 seconds.
6. Repeat steps 4 and 5 at least 10 times.
7. Accelerate the vehicle to 55 MPH (88 km/h) and maintain the speed for at least 3 minutes.
8. Stop the vehicle. Place the transmission gear selector lever in the "P" or "N" position.
9. Turn the engine off.
10. Repeat steps 1 through 8 at least one more time.

If step 1 through 7 is interrupted, repeat the preceding step. Any safe driving mode is acceptable between steps. Do not stop the engine until step 7 is completed.

EVENT DATA RECORDERS

Your vehicle is equipped with a variety of computers that monitor and control a number of systems to optimize performance and help service technicians with diagnosis and repair. Depending on the equipment on your vehicle, some of the computers monitor emission control systems, braking systems, engine systems, transmission systems, tire pressure systems and air bag systems. Some data about vehicle operation may be stored in the computers for use during servicing. Other data may be stored if a crash event occurs. For example, air bag readiness, air bag performance, and seat belt use by the driver or passenger may be recorded, depending on vehicle equipment. These types of systems are sometimes called Event Data Recorders.

Special equipment can be used to access the electronic data that may be stored in the vehicle's computers (sounds are not recorded). INFINITI and INFINITI dealers have equipment to access some of this data; others may also have this equipment. The data may be retrieved during routine vehicle servicing or for special research. It might also be accessed with the consent of the vehicle owner or leasee, in response to

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a request by law enforcement, 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 your INFINITI dealer. 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:

Tweddle Litho Company
1-800-450-9491
www.nissan-techinfo.com

For current pricing and availability of genuine **INFINITI Service Manuals** for the 1999 model year and prior, see an INFINITI dealer, or contact:

Resolve Corporation
20770 Westwood Road
Strongsville, OH 44136
1-800-247-5321

For current pricing and availability of genuine **INFINITI Owner's Manuals** for this

model year and prior, see an INFINITI dealer, or contact:

Resolve Corporation
20770 Westwood Road
Strongsville, OH 44136
1-800-247-5321

In Canada:

To purchase a copy of a genuine INFINITI Service Manual or Owner's Manual please contact your nearest INFINITI dealer. For the phone number and location of an INFINITI dealer 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.infiniti.com (for U.S. customers) or
www.infiniti.ca (for Canadian customers)

MEMO

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MEMO

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GAS STATION INFORMATION

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



CAUTION

- **Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.**
- **Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.**
- **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:

- API Certification Mark
- API grade SJ or SL, Energy Conserving
- ILSAC grade GF-II & GF-III
- SAE 5W-30 viscosity oil is preferred for

all ambient temperatures.

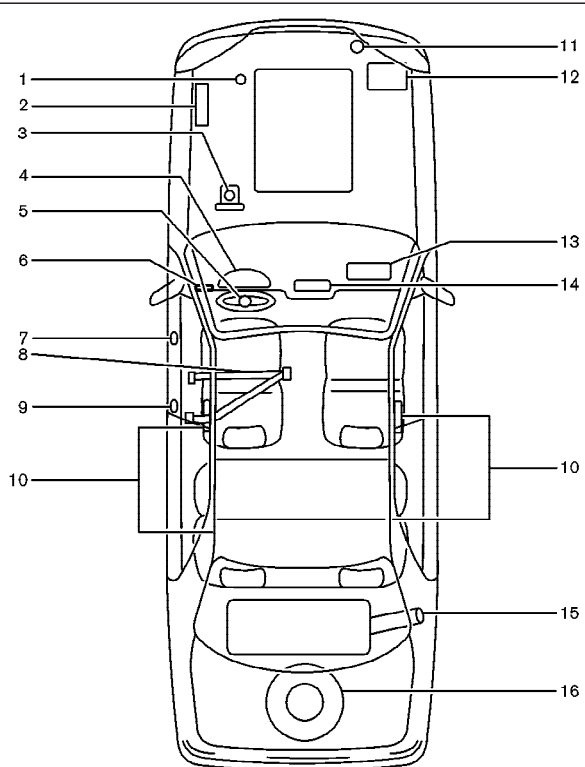
See “Capacities and recommended fuel/lubricants” in the “9. Technical and consumer information” section for engine oil and oil filter recommendation.

COLD TIRE PRESSURES:

See Tire and Loading Information label affixed to the inside of the driver side center pillar.

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. Follow these recommendations for the future reliability and economy of your new vehicle.



1. Engine oil (P.8-11)
2. Engine coolant (P.8-9)
3. Brake fluid (P.8-15)
4. Meter and gauges (P.2-3)
5. Driver supplemental air bag (P.1-33)
6. Hood release (P.3-9)
7. Trunk lid release (P.3-10)
Fuel-filler door release (P.3-15)
8. Seat belt (P.1-6)
9. Door lock (P.3-4)
10. Supplemental side air bag (P.1-33)
Supplemental curtain side-impact air bag (P.1-33)
11. Windshield washer fluid (P.8-15)
12. Battery (P.8-16)
13. Front passenger supplemental air bag (P.1-33)
14. Air conditioner (P.4-13)
Audio system (P.4-18)
15. Fuel-filler door release (P.3-15)
Fuel recommendation (P.9-3)
16. Spare tire (P.6-8)