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. Always carry it with you when you take your INFINITI to an authorized retailer. The Warranty Information Booklet contents provide complete information about all warranties covering this vehicle, the requirements to keep the warranties in effect as well as the INFINITI Roadside Assistance program.

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

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 retailer, please contact our Consumer Affairs department at 1-800-662-6200. In Hawaii 1-808-836-0848 (Oahu number). In Canada 1-800-361-4792. Thank you.

READ FIRST — THEN DRIVE SAFELY

Before driving your vehicle please 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

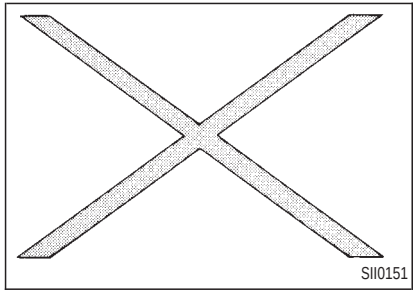
You will see various symbols in this manual. They are used in the following ways:

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**.

INFINITI®

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TOKYO, JAPAN

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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.

TABLE OF CONTENTS

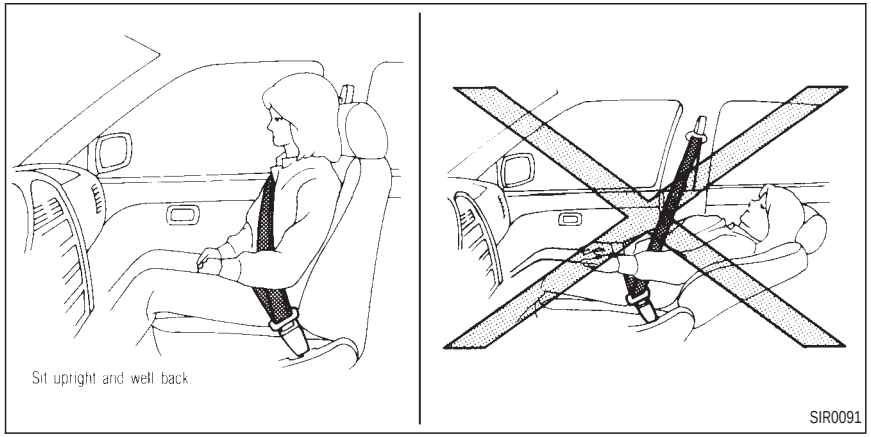
SEATS, RESTRAINTS AND SUPPLEMENTAL AIR BAG SYSTEMS 1-1
INSTRUMENTS AND CONTROLS 2-1
PRE-DRIVING CHECKS AND ADJUSTMENTS..... 3-1
MONITOR, CLIMATE, AUDIO AND VOICE-ACTIVATED CONTROL SYSTEMS 4-1
STARTING AND DRIVING..... 5-1
IN CASE OF EMERGENCY 6-1
APPEARANCE AND CARE..... 7-1
DO-IT-YOURSELF 8-1
MAINTENANCE 9-1
TECHNICAL AND CONSUMER INFORMATION 10-1
INDEX 11-1

1 SEATS, RESTRAINTS AND SUPPLEMENTAL AIR BAG SYSTEMS

Seats 1-2
Front power seat adjustment 1-2
Rear power seat adjustment (if so equipped) 1-4
Head restraint adjustment 1-5
Active head restraint (Front seats) 1-6
Supplemental restraint system 1-7
Precautions on supplemental restraint system 1-7
Supplemental air bag warning labels 1-20
Supplemental air bag warning light 1-20
Seat belts 1-22
Precautions on seat belt usage 1-22
Child safety 1-25
Pregnant women 1-27
Injured persons 1-27
Three-point type seat belt 1-27
Seat belt extenders 1-31
Seat belt maintenance 1-31
Child restraints 1-31
Precautions on child restraints 1-31
Installation on rear seat center or outboard positions 1-34
LATCH (Lower Anchors and Tether for Children) system 1-39
Top tether strap child restraint 1-40
Installation on front passenger seat 1-41

SEATS, RESTRAINTS AND SUPPLEMENTAL AIR BAG SYSTEMS

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 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

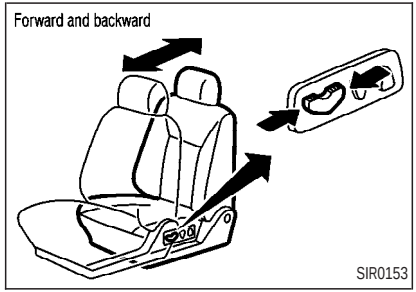
- *Do not adjust the driver's seat while driving so full attention may be given to vehicle operation.*

- ***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

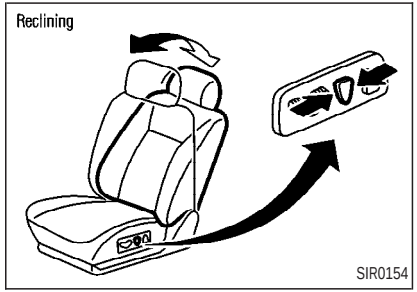
- The seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power seat for a long period of time when the engine is off. This will discharge the battery.

Forward and backward



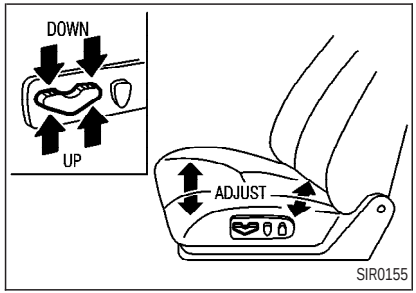
Moving the switch forward or backward will slide the seat forward or backward to the desired position.

Reclining



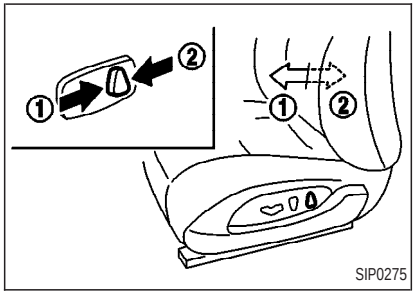
Move the recline switch backward until the desired angle is obtained. To bring the seat-back forward again, move the switch forward and move your body forward. The seatback will move forward.

Seat lifter (Driver's seat)



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

Lumbar support (Driver's seat)

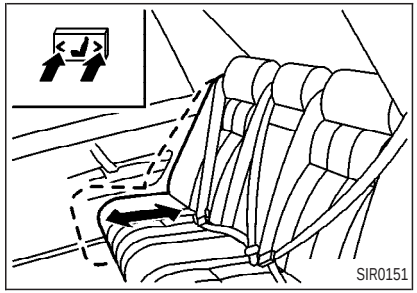


The lumbar support feature provides lower back support to the driver. Move the switch forward or backward to adjust the seat lumbar area.

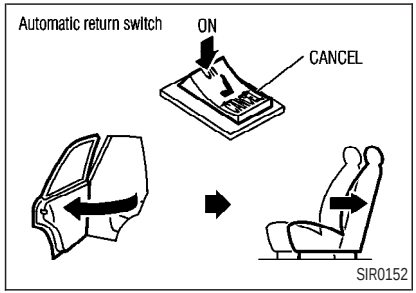
REAR POWER SEAT ADJUSTMENT (if so equipped)

Forward and backward

Press the switch to move the seat forward or back. The seats move continuously while the switch is being pressed.



Automatic return



When the ON portion of the automatic return switch on the rear armrest is pressed, the automatic return function is activated.

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

Pressing the CANCEL side of the switch will deactivate the automatic return function.

Automatic reverse operation

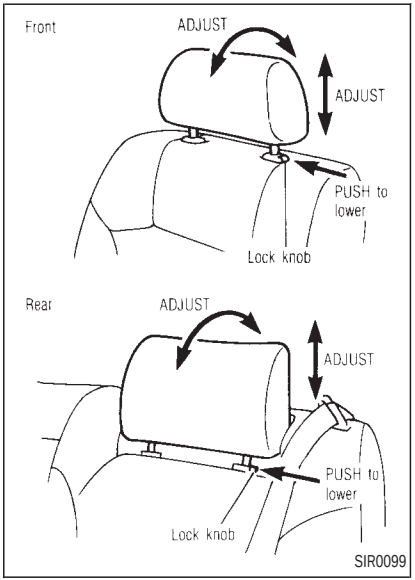
When the driver's seat is moved backward by the automatic drive positioner system, the rear left side seat will automatically move backward even if the rear seat automatic return switch is in the CANCEL position.

This operation maintains rear passenger foot and knee space.

HEAD RESTRAINT ADJUSTMENT

WARNING

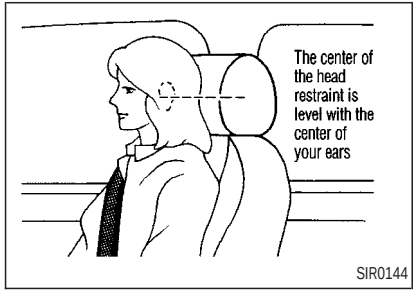
Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Do not remove them. Check the adjustment after someone else uses the seat.



To raise the head restraint, simply pull it up.

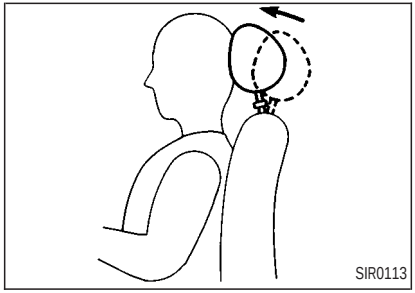
To lower, push the lock knob and push the head restraint down.

To adjust the head restraint forward and backward, push it in the direction required.



Adjust the head restraints 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 outward and 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.

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

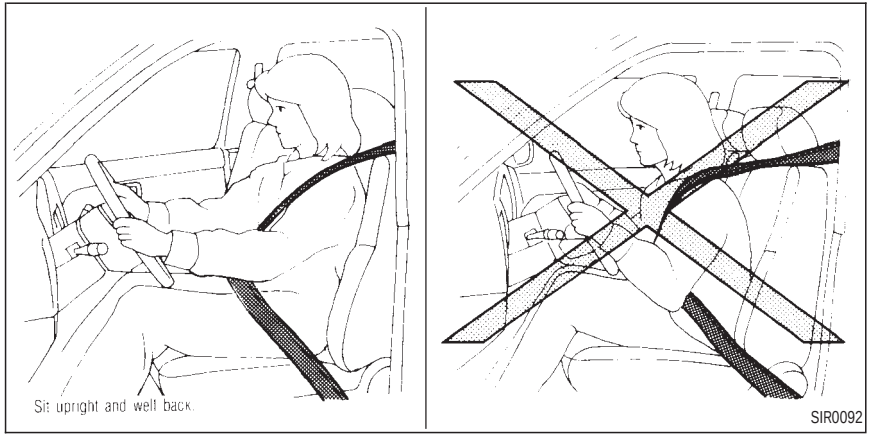
Front impact supplemental air bag system: This system can help cushion the impact force to the face and chest of the driver and front passenger in certain frontal collisions.

Side-impact supplemental 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.

Side-impact supplemental 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 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” later 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.

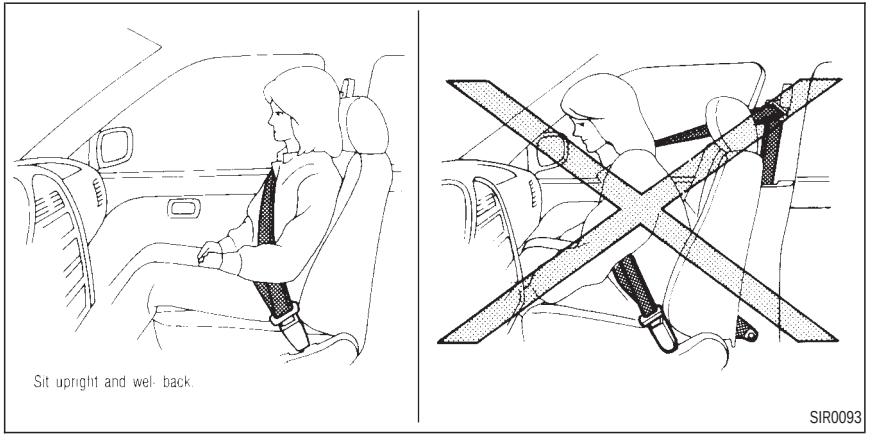


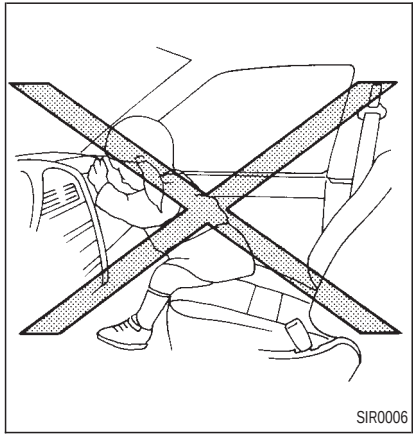
WARNING

- *The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, roll over, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.*
- *The seat belts and the supplemental front air bags are most effective when you are sitting well back and upright in the seat. Front air bags inflate with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in 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 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.

- ***Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the supplemental front air bag inflates.***

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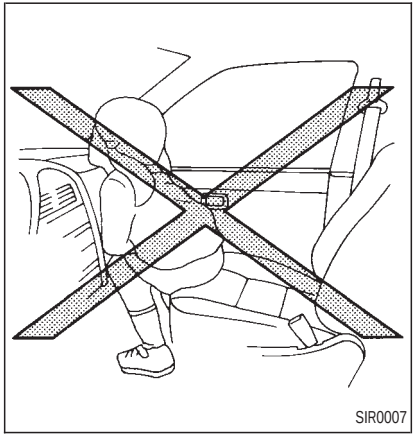
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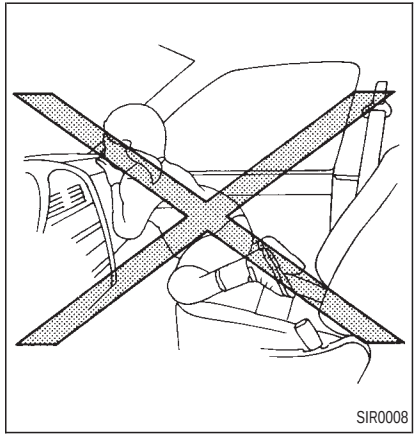
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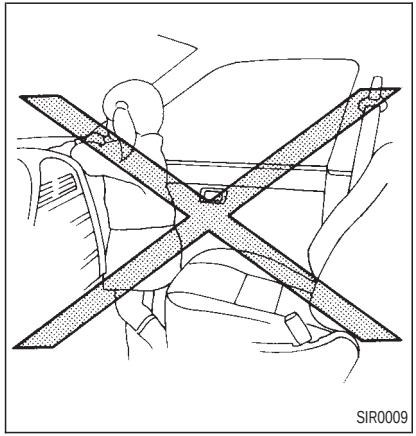
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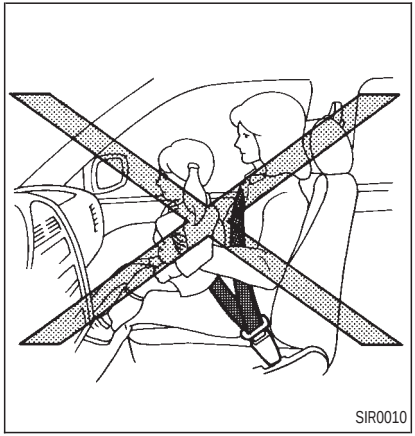
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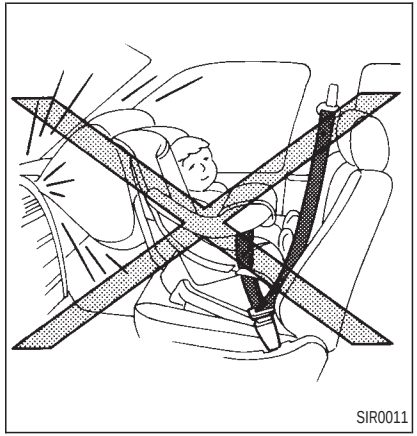
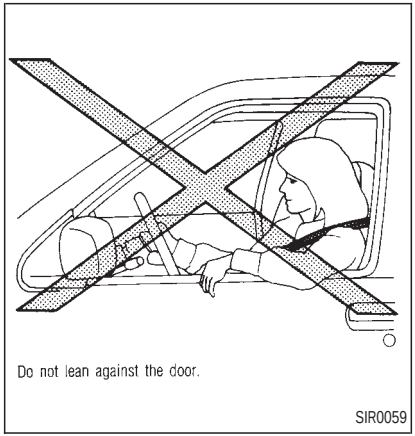
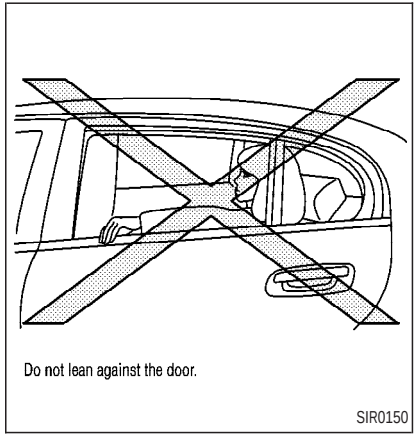
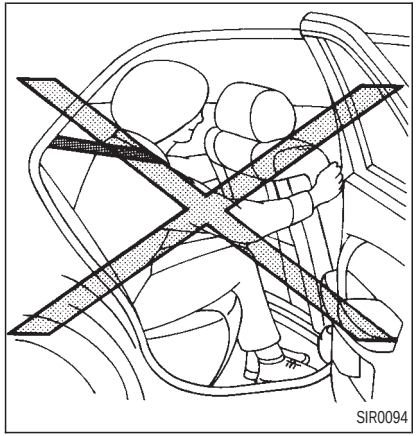

SIR0011

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 previous illustrations.***
- ***Children may be severely injured or killed when the supplemental front air bag or supplemental side air bag inflates if they are not properly restrained.***
- ***Also, 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" later in this section for details.***



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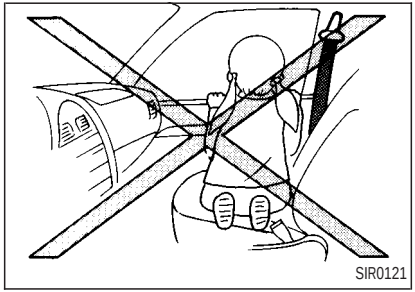
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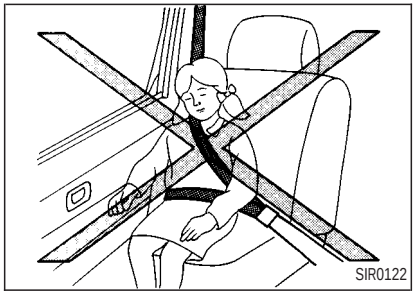

SIR0122

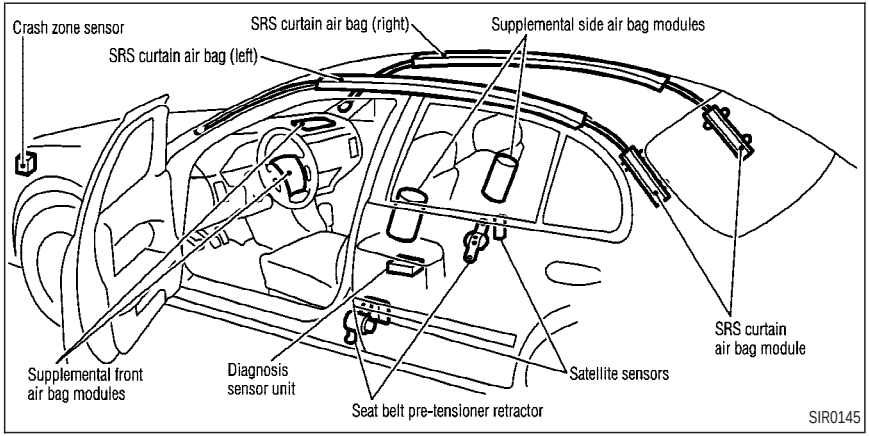
WARNING

Supplemental side air bag and curtain air bag:

- ***The supplemental side air bag and curtain 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 and the supplemental side air bag and curtain air bag are most effective when you are sitting well back and upright in the seat. The side air bag and curtain air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air bag on the side of the seatback of the front seat or near the side roof rails. Do not allow anyone sitting in the front seats or rear outboard seats to extend their hand out of the win-***

dow 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.***
- ***Do not use seat covers on the front seatbacks. They may interfere with supplemental side air bag inflation.***



Supplemental front air bag system

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. These systems are designed to meet optional certification requirements under U.S. regulations. They are also permitted in Canada. The optional certification allows front air bags to be designed to inflate somewhat less forcefully than previously. **However, all of the information, cautions and warnings in this manual still apply and must be followed.** 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 supplemental 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 and seat belt buckle sensors that detect if the seat belts are fastened, inflator operation is based on the severity of a collision and whether the seat belts are being used.

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.

The 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 the collision is over.

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

WARNING

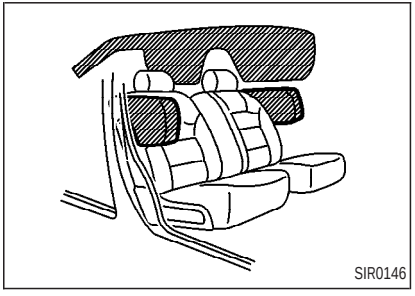
- ***Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the supplemental front air bag inflates.***
- ***Right after inflation, several 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 front air bag system. This is to prevent***

accidental inflation of the air bag or damage to the 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 front air bag system may result in serious personal injury. For example, do not change 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.***
- ***Work around and on the supplemental front air bag system should be done by an authorized INFINITI retailer. Installation of electrical equipment should also be done by an authorized INFINITI retailer. The yellow Supplemental Restraint System (SRS) wiring 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 inflation of the supplemental air bag system.***

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 air bag system



The supplemental side air bags are located in the outside of the seatback of the front seats. The supplemental curtain air bags are located in the side roof rails. The supplemental side air bags and curtain air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another

type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions. Vehicle damage (or lack of it) is not always an indication of proper supplemental side air bag operation.

When the supplemental side air bag and curtain 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 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 air bag may cause abrasions or other injuries. Supplemental side air bags and curtain air bags do not provide restraint to the lower body.

The seat belts should be correctly worn and the driver and passenger seated upright as far as practical 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 air bag inflate quickly in order to help protect the front occupants. Because of this, the force of the side air bag and curtain 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 air bag will deflate quickly after the collision is over.

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

WARNING

- ***Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if the side air bag inflates.***
- ***Right after inflation, several side air bag and curtain air bag system components will be hot. Do not touch them; you may severely burn yourself.***
- ***No unauthorized changes should be made to any components or wiring of 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 air bag system.*
- *Tampering with the supplemental 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 air bag system should be done by an authorized INFINITI retailer. Installation of electrical equipment should also be done by an authorized INFINITI retailer. 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 are covered with yellow insulation either just before the harness connectors or over the complete harness for easy identification.*

When selling your vehicle, we request that you inform the buyer about the side air bag and curtain air bag system and guide the buyer to the appropriate sections in this Owner's Manual.

Pre-tensioner seat belt system (For front seats)

WARNING

- *The pre-tensioner seat belt cannot be reused after activation. It must be replaced together with the retractor 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 retailer.*
- *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 pretensioner system should be done by an authorized INFINITI retailer. Installation of electrical equipment should also be done by an authorized INFINITI retailer. 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 authorized INFINITI retailer. Correct pretensioner 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 front air bag. Working with the seat belt retractor, it helps tighten the seat belt the instant the vehicle becomes involved in certain types of collisions, thereby restraining seat occupants.

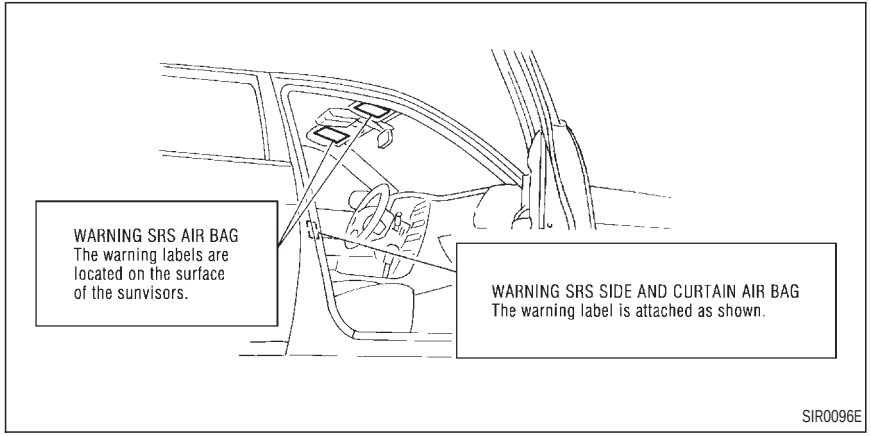
The pre-tensioner is encased with the seat belt's retractor. These seat belts are used the same as conventional seat belts.

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 authorized INFINITI retailer.

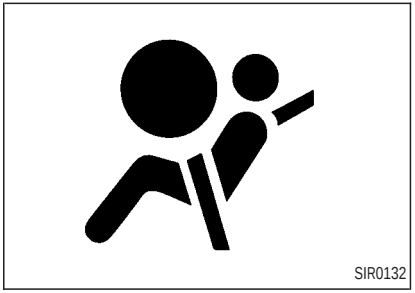
When selling your vehicle, we request that you inform the buyer about the pre-tensioner seat belt system and guide the buyer to the appropriate sections in this Owner's Manual.

SUPPLEMENTAL AIR BAG WARNING LABELS



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

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 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 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 air bag systems, and pre-tensioner seat belt need servicing:

- 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.

Under these conditions, the supplemental front air bags, supplemental side air bags, curtain air bags and/or pre-tensioner seat belt may not operate properly. They must be checked and repaired. Take your vehicle to the nearest authorized INFINITI retailer.

WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental front air bag, supplemental side air bag, curtain air bag systems and/or pre-tensioner seat belt will not operate in an accident.

Repair and replacement procedure

The supplemental front air bags, supplemental side air bags, curtain air bags and pre-tensioner seat belt are designed to inflate 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 authorized INFINITI retailer.

When maintenance work is required on the vehicle, the supplemental front air bags, side air bags, curtain air bags, related parts and pre-tensioner seat belt should be pointed out to the person conducting 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 air bag has inflated, the air bag module will not function again and must be replaced. Additionally, if any of the supplemental air bags inflate, the pre-tensioner seat belts must also be replaced. The air bag module and pre-tensioner seat belt system should be replaced by an authorized INFINITI retailer.***

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 authorized INFINITI retailer if there is any damage to the front end or side portion of the vehicle.***
- ***If you need to dispose of these supplemental systems or scrap the vehicle, contact an authorized INFINITI retailer.***

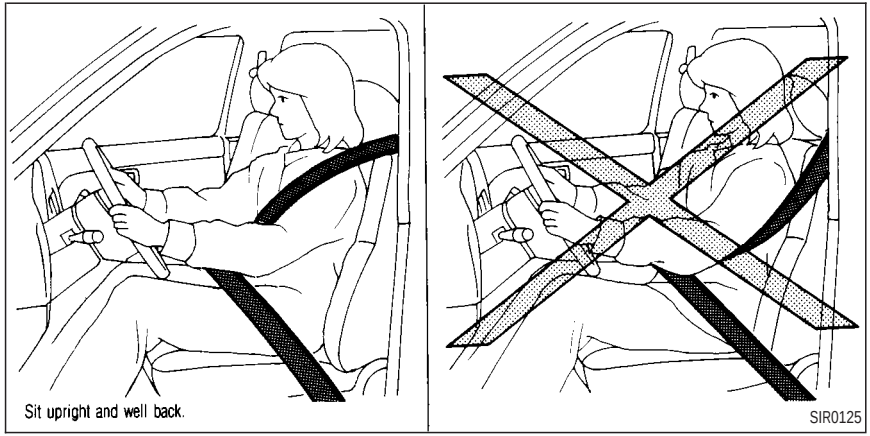
  Correct disposal procedures are set forth in the appropriate INFINITI Service Manual. Incorrect disposal procedures could cause personal injury.

SEAT BELTS

PRECAUTIONS ON SEAT BELT USAGE

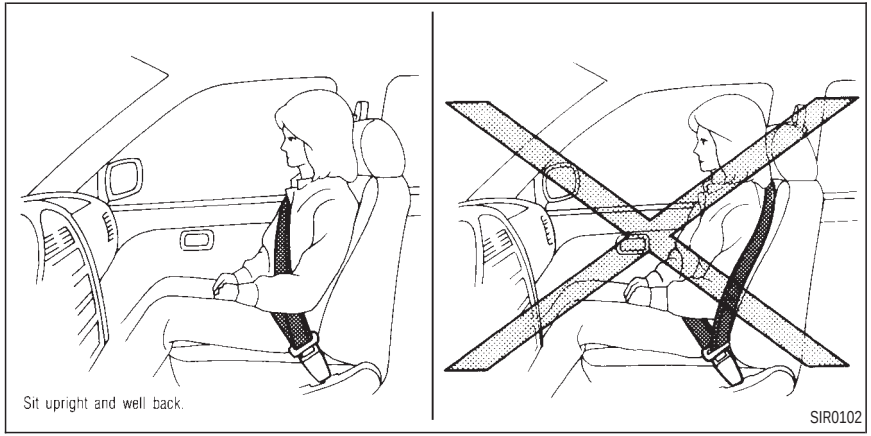
Your chances of being injured or killed in an accident and/or the severity of injury may be greatly reduced if you are wearing your seat belt and it is properly adjusted. INFINITI strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes a supplemental air bag.

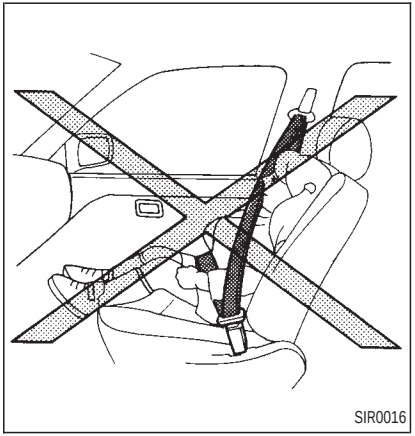
Most states, all provinces and territories require that seat belts be worn at all times when a vehicle is being driven.



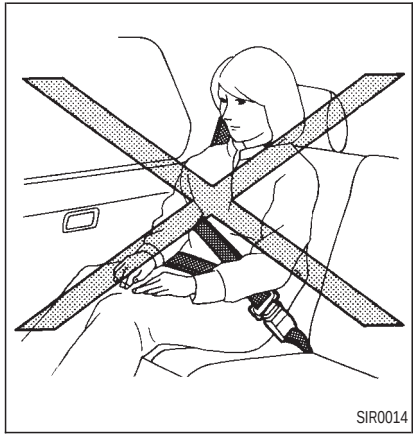
WARNING

- *Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained and, if appropriate, in a child restraint.*
- *The 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 belt inside out or twisted. Doing so may reduce its effectiveness.***
- ***Do not allow more than one person to use the same 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 malfunc-***



tion in the system. Have the system checked by an authorized INFINITI retailer.

- *Once the pre-tensioner has activated, it cannot be reused and must be replaced together with the retractor. See your INFINITI retailer.*
- *Removal and installation of the pre-tensioner seat belt system components should be done by an authorized INFINITI retailer.*
- *All seat belt assemblies including retractors and attaching hardware should be inspected after any collision by your INFINITI retailer. INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.*
- *All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.*

CHILD SAFETY

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

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 out-

grow rear facing child restraints.

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 US states and provinces of Canada require the use of approved child restraints for infants and small children. (See "Child restraints" later in this section.)

In addition, there are many types of child restraints available for larger children which should be used for maximum protection.

INFINITI recommends that all preteens and children be restrained in the rear seat if possible. 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 for precautions.

Infants and small children

INFINITI recommends that infants and 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 which 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.

If the child's seating position has a shoulder belt that fits close to the face or neck, the use of a booster seat (commercially available) may help overcome this. The booster seat should raise the child so that the shoulder belt is properly positioned across the top, middle portion of the shoulder and the lap belt is low on the hips. The booster seat should 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.

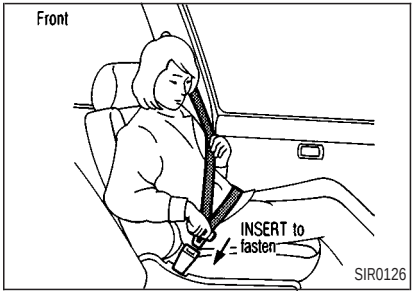
THREE-POINT TYPE SEAT BELT

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 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.***

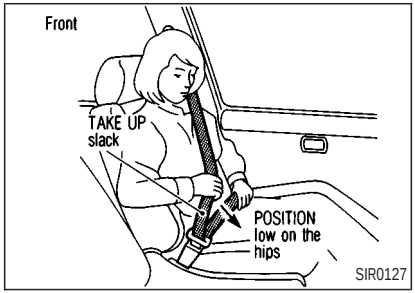
Fastening the seat belts

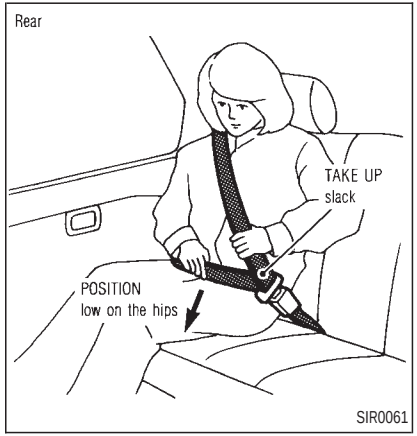
1. Adjust the seat.



2. Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until it snaps.

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.





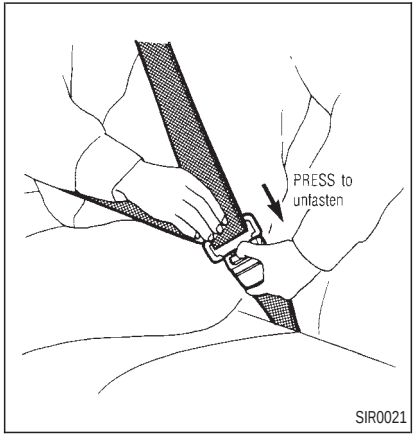
3. Position the lap belt portion **low and snug on the hips** as shown.
4. Pull the shoulder belt portion toward the retractor to take up extra slack.

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

mode. When the cinching mechanism is activated the seat belt cannot be withdrawn again until the seat belt tongue is detached from the buckle and fully retracted. 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.

Unfastening the seat belts



To unfasten the belt, press 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.

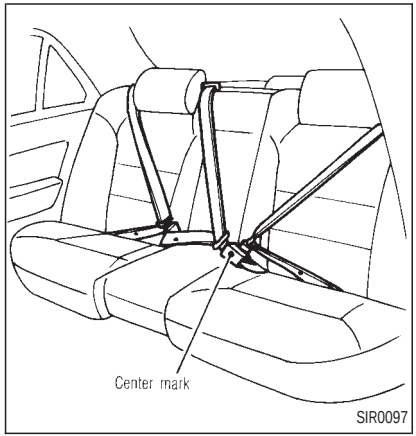
To increase your confidence in the belts, check their operation as follows:

- grasp the shoulder belt and pull quickly forward. 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 retailer.

Center of rear seat

Selecting correct set of seat belts:



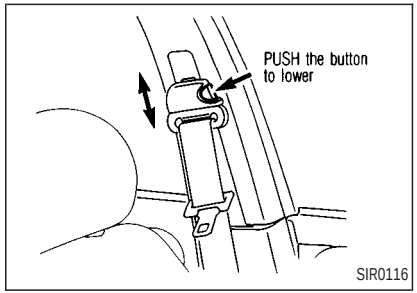
The center seat belt buckle is identified by the CENTER mark. The center seat belt tongue can be fastened **only** into the center seat belt buckle.

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, 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 which is compatible with the installed seat belts. 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 retailer for assistance if the extender is required.

WARNING

- ***Only INFINITI belt extenders, made by the same company which made the original equipment belts, should be used with the INFINITI belts.***
- ***Persons 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. 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.

CHILD RESTRAINTS

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 three-point type seat belt. In addition, this vehicle is equipped with a universal child restraint lower anchor system, referred to as the LATCH (Lower Anchors and Tether 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. Choose a child restraint that meets the guidelines of the Society of Automotive Engineers recommended practice J1819 for child restraint installation.
- 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. Always follow all recommended procedures.

All US states and provinces of Canada 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 infant or child and other occupants in 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. Tilt it from side to side. Try to tug it forward and check to see if the belt holds the restraint in place. If the restraint is not secure, tighten the belt as necessary, or put the restraint in another seat and test it again.*
- *For a front facing child restraint, check to make sure the shoulder belt does not go in front of the child's face or neck. If it does, put the shoulder belt behind the child restraint. If you must install a front facing child restraint in the front seat. See "Installation on front passenger seat" later in this section for details.*
- *When your child restraint is not in use, store it in the trunk or 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.

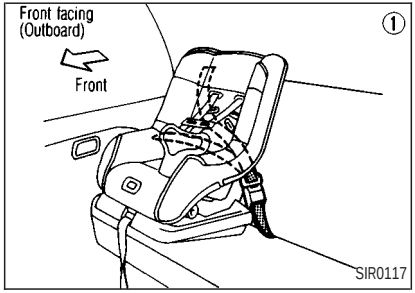
INSTALLATION ON REAR SEAT CENTER OR OUTBOARD POSITIONS

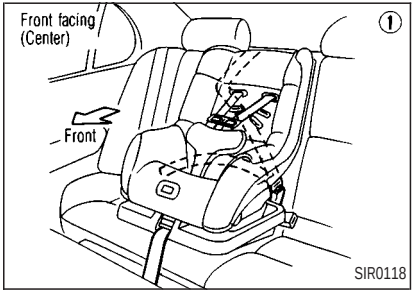
Front facing

WARNING

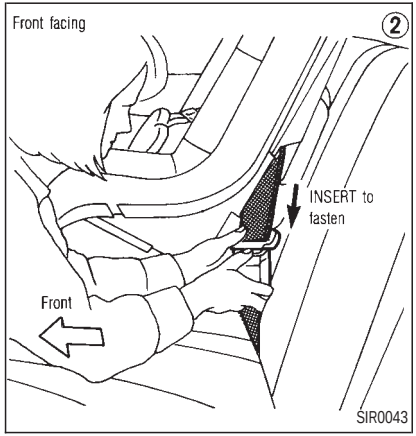
- ***The three-point belt on your vehicle is equipped with a locking mode retractor which must be used when installing a child restraint.***
- ***Failure to do so will result in the child restraint not being properly secured. It could tip over or otherwise be unsecured and cause injury to the child in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

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

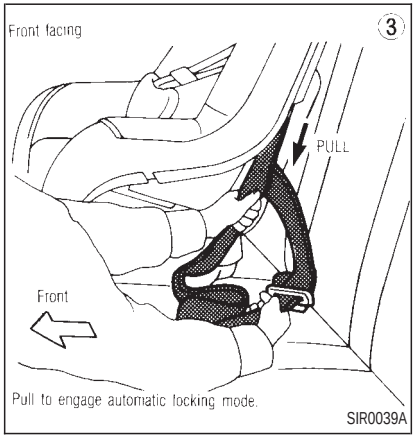




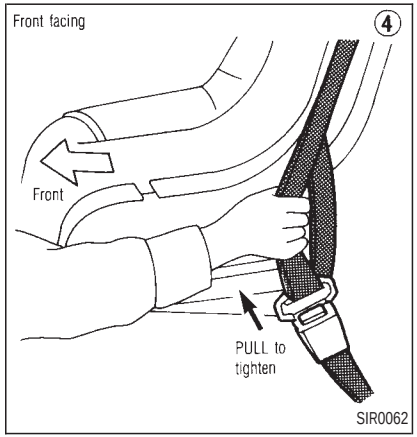
1. Position the child restraint on the seat. The direction of the child restraint depends on the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.



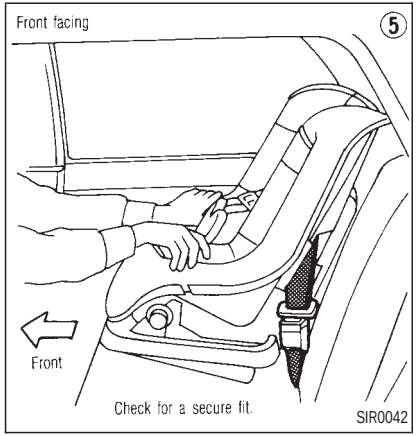
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



3. Pull on the shoulder belt until all of the belt is fully extended. At this time, the 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 belt to retract. Pull up on the belt to remove any slack in the belt.



5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
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 belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the lap belt is not locked, repeat steps 3 through 6.

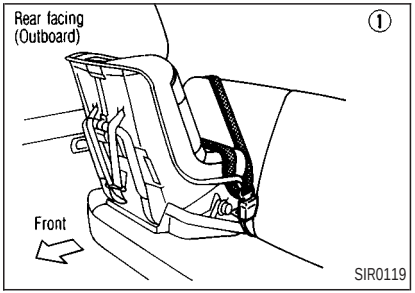
After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.

Rear facing

WARNING

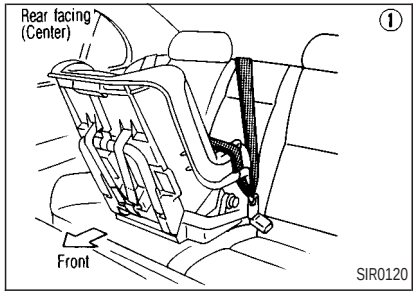
- ***The three-point belt on your vehicle is equipped with a locking mode retractor which must be used when installing a child restraint.***
- ***Failure to do so will result in the child restraint not being properly secured. It could tip over or otherwise be unsecured and cause injury to the child in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

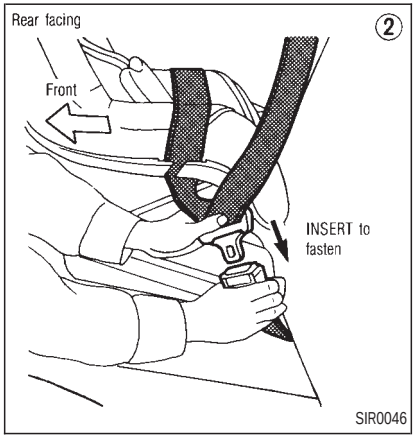
When you install a child restraint in a rear outboard or center seat, follow these steps:



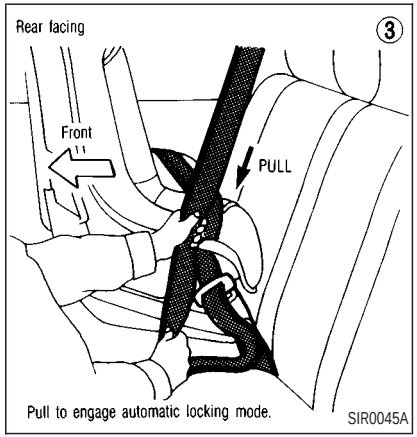
1. Position the child restraint on the seat. The direction of the child restraint depends on

the type of the child restraint and the size of the child. Always follow the restraint manufacturer's instructions.

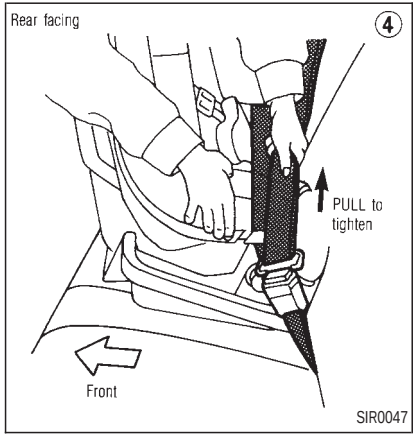




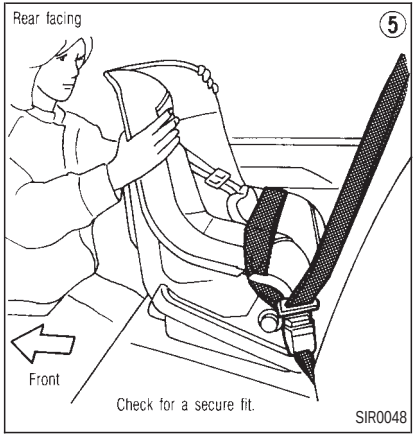
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.



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



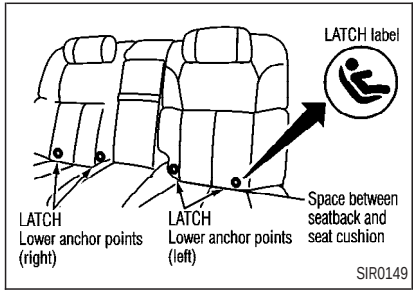
4. Allow the belt to retract. Pull up on the belt to remove any slack in the belt.



5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
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 belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the lap belt is not locked, repeat steps 3 through 6.

After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.

LATCH (LOWER ANCHORS AND TETHER FOR CHILDREN) SYSTEM



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.***
- ***Do not secure a child restraint in the center rear seating position using the child restraint lower anchors. The child restraint will not be secured properly.***
- ***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.***

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 (Lower Anchors and Tether for Children) 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 child restraint owner's manual. If you have such a child restraint, refer to the illustration for the rear seating positions equipped with LATCH system anchors which can be used to secure the child restraint.

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.

Some child restraints may also 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.

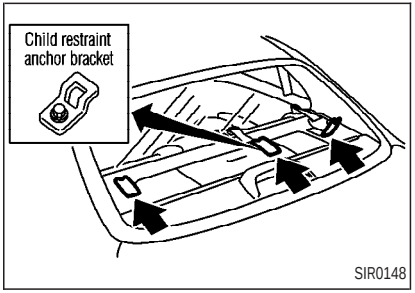
When you install a LATCH system compatible child restraint to the lower anchor attachments in the rear seat, follow these steps.

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 tilt the child restraint from side to side and tug it forward to make sure that the child restraint is securely held in place.
3. Check to make sure that the child restraint is properly secured prior to each use.

TOP TETHER STRAP CHILD RESTRAINT



If your child restraint has a top tether strap, it must be secured to the provided anchor point. First, secure the child restraint with the rear seat belt.

Remove the anchor cover from the anchor point which is located directly behind the child seat.

Secure the top tether strap to the anchor bracket.

Keep the removed cover in a secure place to prevent loss or damage.

WARNING

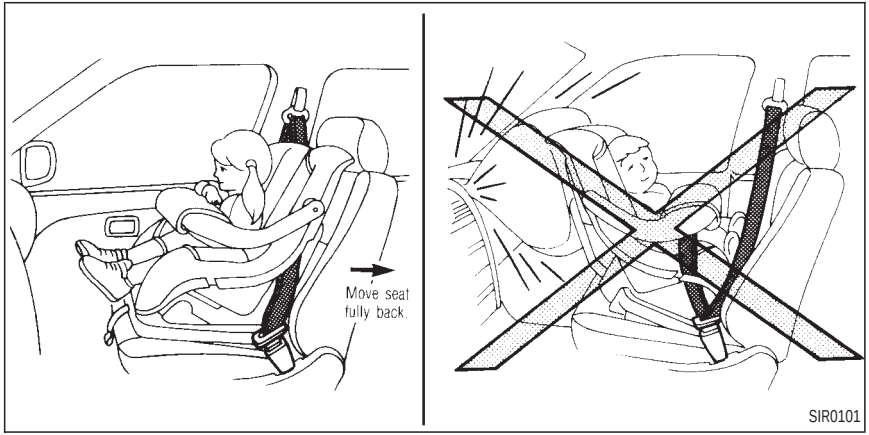
The child restraint anchor points are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstances are they to be used for adult seat belts or harnesses.

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 retailer for details.

INSTALLATION ON FRONT PASSENGER SEAT



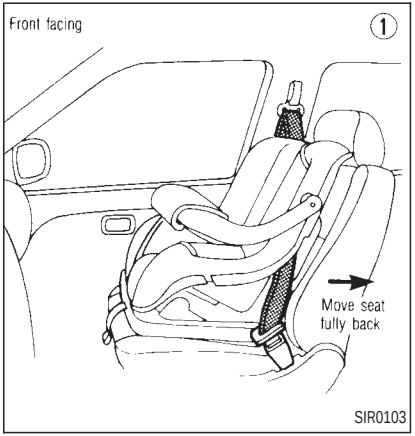
WARNING

- ***Never install a rear facing child restraint in the front passenger seat. Supplemental front air bags inflate with great force. A rear fac-***

ing child restraint could be struck by the air bag in a crash and could seriously injure or kill your child.

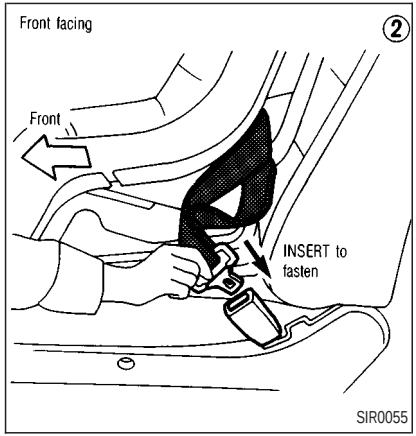
- ***INFINITI recommends that child restraints be installed in the rear seat. However, if you must install a forward facing child restraint in the front passenger seat, move the passenger seat to the rear most position.***
- ***A child restraint with a top tether strap should not be used in the front passenger seat.***
- ***The three-point belt in your vehicle is equipped with a 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.***

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

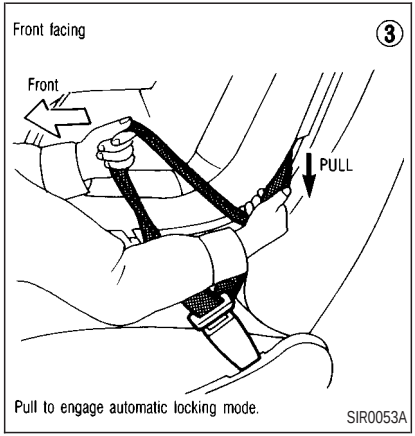


1. Position the child restraint on the front passenger seat. **It should be placed in a front facing direction only.** Move the seat to the rear most position. Always follow the child restraint manufacturer's instructions. **Child restraints for infants must be used in the rear facing direction and therefore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

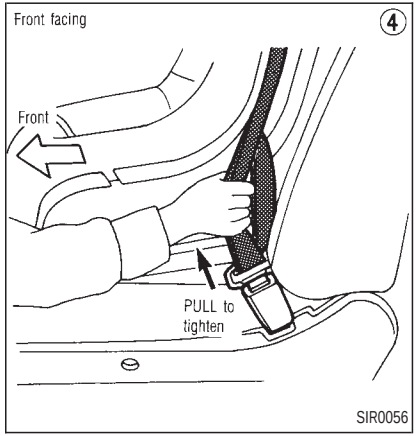
used in the front seat.



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 belt to retract. Pull up on the belt to remove any slack in the belt.

5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
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 belt is in the automatic locking mode.
7. Check to make sure that the child restraint is properly secured prior to each use. If the lap belt is not locked, repeat steps 3 through 6.

After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt only locks during a sudden stop or impact.

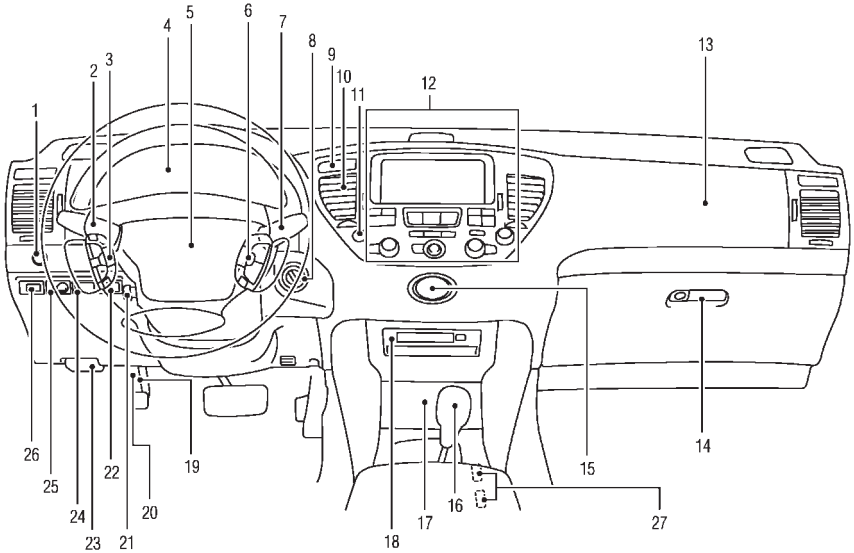
2 INSTRUMENTS AND CONTROLS

Instrument panel 2-2
Meters and gauges 2-3
Speedometer and odometer 2-4
Tachometer 2-4
Engine coolant temperature gauge 2-5
Fuel gauge 2-5
Warning/indicator lights and audible reminders 2-7
Checking bulbs 2-7
Warning lights 2-7
Indicator lights 2-11
Audible reminders 2-14
Security systems 2-14
Vehicle security 2-14
Infiniti Vehicle Immobilizer System 2-15
Windshield wiper and washer switch 2-17
Switch operation 2-17
Rear window and outside mirror (if so equipped) defogger switch 2-18
Headlight and turn signal switch 2-18
Xenon headlights 2-18
Headlight switch 2-19
Turn signal switch 2-23
Hazard warning flasher switch 2-23
Horn 2-24
Heated seats (if so equipped) 2-24
Active damper suspension mode select switch (if so equipped) 2-25
Auto mode 2-25
Sport mode 2-25
Vehicle Dynamic Control OFF switch 2-26
Clock 2-26
Adjusting the time 2-26
Power outlet 2-26
Cigarette lighters and ashtrays 2-27
Storage 2-28
Cup holders 2-28
Glove box 2-29

Console box 2-30
Cargo net 2-31
Windows 2-31
Power windows 2-31
Sunroof (if so equipped) 2-33
Electric sunroof 2-34
Rear sun shade (if so equipped) 2-35
Rear door window sun shade (if so equipped) 2-36
Interior lights 2-36
Personal lights 2-38
Front 2-38
Rear 2-38
Vanity mirror lights 2-38
Trunk light 2-38
HomeLink® Universal Transceiver 2-39
Programming HomeLink® 2-40
Programming HomeLink® for Canadian customers 2-40
Operating the HomeLink® Universal Transceiver 2-41
Programming trouble diagnosis 2-41
Clearing the programmed information 2-41
Rolling code programming 2-41
Reprogramming a single HomeLink® button 2-42
If your vehicle is stolen 2-43

INSTRUMENTS AND CONTROLS

INSTRUMENT PANEL



SII0322

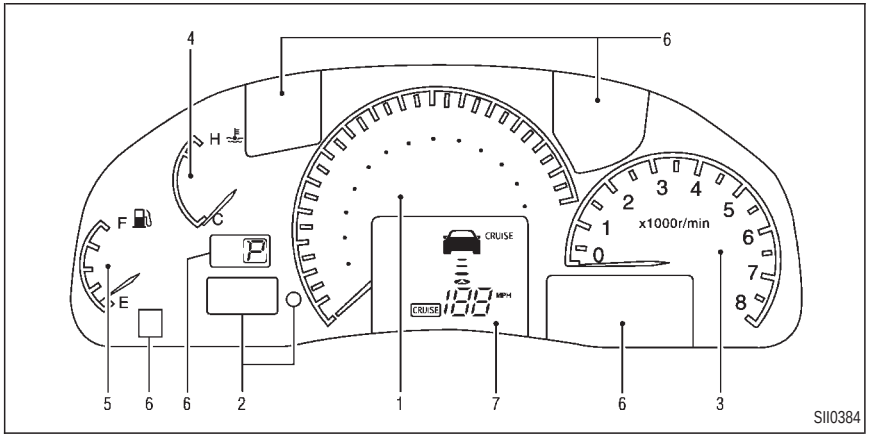
1. Outside mirror remote control (P.3-18)
2. Headlight/turn signal switch (P.2-18)
3. Audio control sub switch (P.4-30)
4. Meters and gauges (P.2-3)
5. Driver supplemental air bag (P.1-7)
6. Cruise control main/set switch (P.5-16)
   Intelligent cruise control switch (P.5-18)
7. Windshield wiper/washer switch (P.2-17)
8. Ignition switch (P.5-7)
9. Security indicator light (P.2-16)
10. Center ventilator (P.4-11)
11. Hazard warning flasher switch (P.2-22)
12. Display, Climate and Audio control switches/buttons (P.4-3)
13. Front passenger supplemental air bag (P.1-7)
14. Glove box (P.2-29)
15. Clock (P.2-25)
16. Automatic select lever (P.5-10)
17. Cigarette lighter and ashtray (P.2-27)
18. Audio system (P.4-17)
19. Parking brake pedal/parking brake release pedal (P.5-15)
20. Fuse box cover (P.8-21)
21. Tilting/telescopic steering wheel switch (P.3-16)
22. Active damper suspension mode selector (P.2-24)
23. Hood release handle (P.3-12)
24. Vehicle dynamic control OFF switch (P.2-25)
25. Headlight aiming control switch (P.2-19)
26. Instrument brightness control (P.2-20)

27. Front heated seat switch (P.2-23)

See the page indicated in parentheses for operating details.

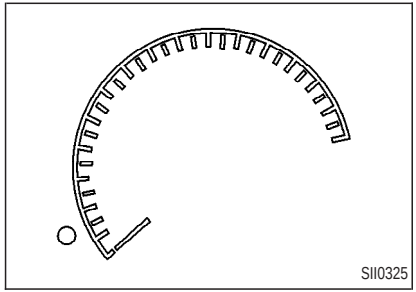
*: Refer to the separate Navigation System Owner's Manual. (if so equipped)

METERS AND GAUGES



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

SPEEDOMETER AND ODOMETER



Speedometer

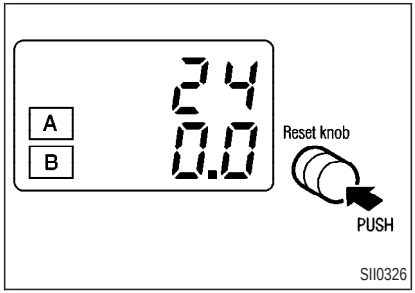
The speedometer indicates vehicle speed.

Odometer/twin trip odometer

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

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

The twin trip odometer records the distance of individual trips.



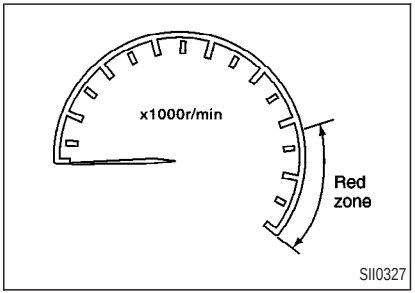
Changing the display:

Pushing the reset knob changes the display as follows:
TRIP A → TRIP B → TRIP A

Resetting the trip odometer:

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

TACHOMETER



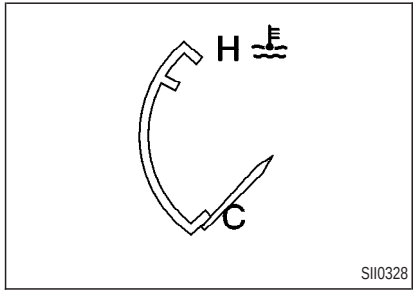
The tachometer indicates engine speed in revolutions per minute (r/min).

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.



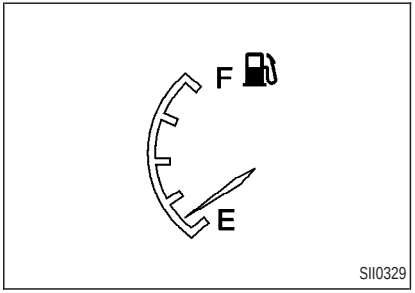
The engine coolant temperature will vary with the outside air temperature and driving conditions.

CAUTION

If the gauge indicates engine coolant temperature over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See the "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.

Refill the fuel tank before the gauge registers Empty.

The indicator 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".

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 authorized INFINITI retailer.*
- *For additional information, see "Malfunction indicator lamp (MIL)" later in this section.*

WARNING/INDICATOR LIGHTS AND AUDIBLE REMINDERS

ABS or	Anti-lock brake warning light		Low tire pressure warning light	SET	Cruise set switch 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	SERVICE ENGINE SOON	Malfunction indicator lamp (MIL)
	Charge warning light	M	Automatic transmission position indicator light	SLIP	Slip indicator light
	Door open warning light	CRUISE	Cruise main switch indicator light (Green)	SPORT	Sport mode indicator light (if so equipped)
	Engine oil pressure warning light	CRUISE	Intelligent cruise control system ON/OFF switch indicator light (White; if so equipped)		Turn signal/hazard indicator lights
	Low fuel warning light	CRUISE	Intelligent cruise control system warning light (Orange; if so equipped)	VDC OFF	Vehicle dynamic control off indicator light

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 , , SERVICE ENGINE SOON

The following lights come on briefly and then go off:

, ABS or , 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 retailer.

WARNING LIGHTS

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

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 your INFINITI retailer.

If an abnormality occurs in the system, the anti-lock function will cease but the ordinary brakes will continue to operate normally.

If the light comes on while you are driving, contact your INFINITI retailer for repair.

AT CHECK *Automatic transmission check warning light*

When the ignition switch is turned ON, the light comes on for 2 seconds. If the light blinks for approximately eight seconds, it may indicate the transmission is not functioning properly. Have your INFINITI retailer check and repair the transmission.

ⓘ *or* BRAKE *Brake warning light*

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

Parking brake indicator:

When the ignition key is in the ON position, the light comes on when the parking brake is applied.

Low brake fluid warning light:

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

1. Check the brake fluid level. Add brake fluid as necessary. See “Brake fluid” in the “8. Do-it-yourself” section.
2. If the brake fluid level is correct:

   Have the warning system checked by an INFINITI retailer.

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.***
- ***Pressing the brake pedal with the engine stopped and/or low brake fluid level may increase your stopping distance and braking will require greater pedal effort as well as pedal travel.***
- ***If the brake fluid level is below the MINIMUM or MIN mark on the brake fluid reservoir, do not drive until the brake system has been checked at an INFINITI retailer.***

Charge warning light

If the light comes on while the engine is running, it may indicate the charging system

is not functioning properly. Turn the engine off and check the alternator belt. If the belt is loose, broken, missing or if the light remains on, see your INFINITI retailer immediately.

CAUTION

Do not continue driving if the belt is loose, broken or missing. See "If your vehicle overheats" in the "6. In case of emergency" section.

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 retailer 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. Do-it-yourself" section.

CAUTION

Running the engine with the oil pressure warning light on could cause serious damage to the engine almost immediately. 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

The light comes on for about 1 second when the key switch is turned ON, and then it turns off.

This light warns of both low tire pressure and a flat tire.

Low tire pressure warning:

If the vehicle is being driven with very low tire pressure, the light will flash.

Flat tire warning:

If the vehicle is being driven with a flat tire or extremely low tire pressure, the light will illuminate. Also a chime will sound for about 10 seconds if a tire is flat.

For additional information, see "Low tire pressure warning system" in the "5. Starting and driving" section and "Flat tire" in the "6.

In case of emergency" section. Also, you can check the tire pressure of all 4 wheels on the monitor display. See "Vehicle information" in the "4. Monitor, climate, audio and voice-activated control systems" section.

WARNING

- ***If the light does not come on with the key switch turned ON, have the vehicle checked by an authorized INFINITI retailer as soon as possible.***
- ***If the light comes on 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 wheels and adjust the pressure to the COLD tire pressure shown on the tire placard. If the light still comes on while driving after adjusting the tire pressure, a tire may be flat. If you have a flat tire, replace it with a spare tire as soon as possible.***
- ***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. 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 and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.***

CAUTION

- ***The low tire pressure warning 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 20 MPH (32 km/h), the low tire pressure warn-***

ing system may not operate correctly.

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

Seat belt warning light and chime

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

See "Seat belts" in the "1. Seats, restraints and supplemental air bag systems" 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 air bag systems and/or pre-tensioner seat belt are operational.

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

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

Unless checked and repaired, the supplemental restraint system and/or the pre-tensioner seat belt may not function properly.

For additional information, see "Supplemental restraint system" in the "1. Seats, restraints and supplemental air bag systems" section.

WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental air bag, supplemental side air bag, curtain air bag systems and/or pre-tensioner seat belt will not operate in an accident.

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 *Cruise main switch indicator light (Green)*

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 *Intelligent cruise control system ON/OFF switch indicator light (White; if so equipped)*

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

CRUISE *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.

SET *Cruise set switch indicator light*

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

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.

SERVICE ENGINE SOON *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 SERVICE ENGINE SOON lamp should turn off if no other potential emission control system malfunction exists.

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 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 authorized INFINITI retailer. 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 authorized INFINITI retailer. You do not need to have your vehicle towed to the retailer.

CAUTION

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

SLIP *Slip indicator light*

This indicator will blink when the VDC system or the traction control system is operating, thus alerting the driver to the fact that the road surface is slippery and the vehicle is nearing its traction limits.

SPORT *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.

VDC OFF *Vehicle dynamic control off indicator light*

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

Push the vehicle dynamic control off switch again or restart the engine and the system will

operate normally. See “Vehicle dynamic control” in the “5. Starting and driving” section.

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 off). 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 if the light switch is in the ≡D◁≡ or ≣D position (ignition switch is turned off).

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.

SECURITY SYSTEMS

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

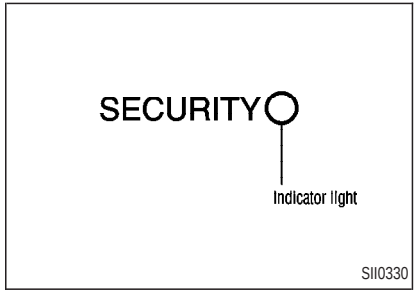
- Vehicle security
- Infiniti Vehicle Immobilizer System

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

VEHICLE SECURITY

The vehicle security system provides visual and audio alarm signals to deter theft of the vehicle.

Security indicator light



How to activate the vehicle security system

1. Close all windows.

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

2. Remove the key from the ignition switch.
3. Close and lock all doors, hood and trunk lid. The doors can be locked either with a key, key fob or door lock knob.

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 activated. If, during this 30 second time period, the door or trunk lid is unlocked by the key or the key fob, or the ignition key is turned to ACC or ON, the system will not activate. However, when the trunk lid is closed after being unlocked with a key or key fob, the system returns to the armed phase.

- **If the key is turned slowly toward the front of the vehicle when locking the door, the system may not activate. If the key is returned beyond the vertical position toward the rear of the vehicle to remove the key, the system may be deactivated. When the indicator light fails to glow for 30 seconds, unlock the door once and lock it again.**
- **Even when the driver and/or passengers are in the vehicle, the system will activate with all doors, hood, and trunk lid locked and ignition key off. When turning the ignition to ACC, the system will be released.**

Vehicle security system operation

The warning system will give the following alarm:

- the headlights blink and the horn sounds intermittently.
- the alarm automatically turns off after 50 seconds; however, the alarm will reactivate if the vehicle is tampered with again.

The alarm is activated by:

- Unlocking the door or opening the trunk lid without using the key or electronic ignition key. (Even if the door is opened by releasing the door inside lock knob or the trunk lid is opened by operating the trunk lid release switch, the alarm is activated.)
- Opening the hood.

How to stop alarm

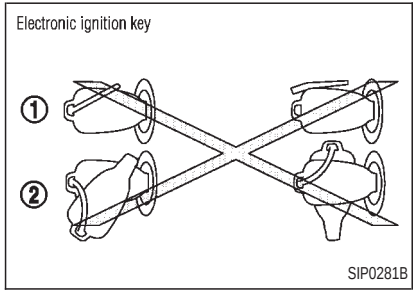
The alarm will stop by unlocking a door with the key or by pushing the unlock button on the electronic ignition key. The alarm will not stop if the ignition switch is turned to ACC or ON.

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 in the following conditions.



① Do not allow metal to contact electronic ignition key.

② Do not allow a devise equipped with a transponder to contact 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 devices.

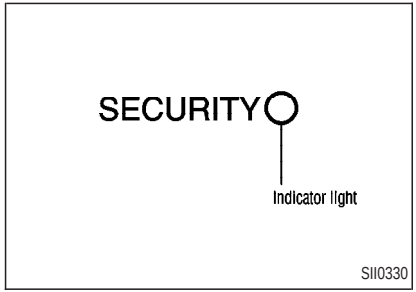
Statement related to section 15 of FCC rules for Infiniti Vehicle Immobilizer System
(CONT ASSY - IMMOBILIZER, ANT ASSY - IMMOBILIZER)

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 MANUFACTURE FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.

Security indicator light



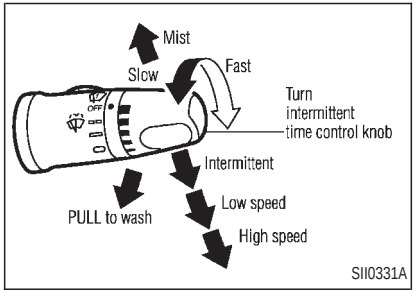
This light blinks whenever the ignition key is removed for 5 seconds after the ignition switch is OFF. This function indicates the security systems equipped on the vehicle are operational.

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

WINDSHIELD WIPER AND WASHER SWITCH



SWITCH OPERATION

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

Push the lever down to operate the wiper. Pull the lever toward you to operate the washer.

The intermittent operation speed is as follows:

- When the vehicle speed is continuously low, so is the intermittent operation speed.
- When the vehicle speed is continuously high, so is the intermittent operation speed.

Low: Continuous low speed operation

High: Continuous high speed operation

⚠ *WARNING*

In freezing temperatures the washer solution may freeze on the windshield and obscure your vision which may lead to an accident. Warm wind-

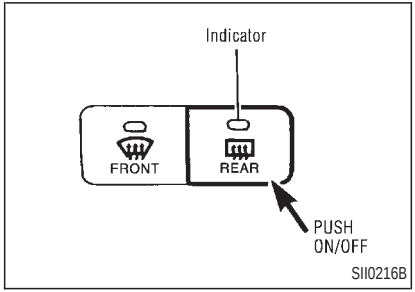
shield with the defroster before you wash the windshield.

CAUTION

The following could damage the washer system:

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

REAR WINDOW AND OUTSIDE MIRROR (if so equipped) DEFOGGER SWITCH



To defog/defrost the rear window glass and the outside mirrors, start the engine and push the switch on. (The indicator light will come on.) Push the switch again to turn the defogger off.

The automatic turn off time can be adjusted. For more information, see "Vehicle information" in the "4. Monitor, climate, audio and voice-activated control systems" section.

CAUTION

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

HEADLIGHT AND TURN SIGNAL SWITCH

XENON HEADLIGHTS

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 authorized INFINITI retailer.

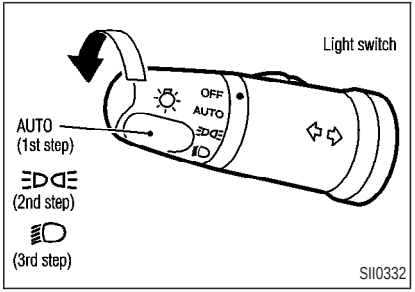
- ***Xenon headlights provide considerably more light than conventional headlights. If they are not correctly aimed, they might temporarily blind an oncoming driver or the driver ahead of you and cause a serious accident. If headlights are not aimed correctly, immediately take your vehicle to an authorized INFINITI retailer and have the headlights adjusted correctly.***

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

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

HEADLIGHT SWITCH

Lighting



Turn the switch to the AUTO position:

When the ignition key is in the ON position, the parking light, headlight, instrument lights and other lights turn on automatically, depending on the brightness of the surroundings. When the ignition key is turned to the ACC, OFF or LOCK position with the autolamp switch in the maximum short position, the light will turn off automatically. See later in

this section for autolamp shut-off delay.

When the light switch is turned to the position, the headlight low or high beam will turn off.

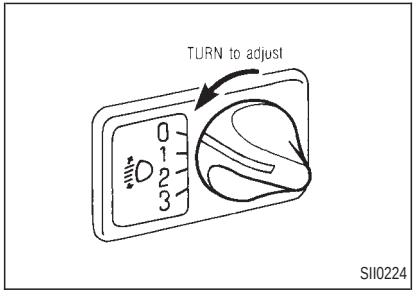
Turn the switch to the position:

The parking, side marker, tail, license plate and instrument lights will come on.

Turn the switch to the position:

Headlights will come on and all the other lights remain on.

Headlight aiming control



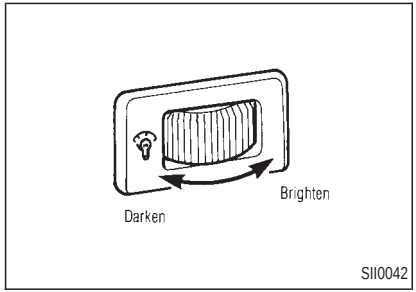
Depending on the number of occupants in the vehicle and the load it is carrying, the headlight axis may be higher than desired. If the vehicle is traveling on a hilly road, the headlights may directly hit the rearview mirror of the vehicle ahead or the windshield of the oncoming vehicle. The light axis can be lowered with the operation of the switch.

The larger the number designated on the switch, the lower the axis.

When traveling with no heavy load or on a flat road, select position 0.

Xenon headlights are extremely bright compared to conventional headlights. If the xenon headlights hit the rearview mirror of the vehicle ahead or the windshield of the oncoming vehicle, the driver of these vehicles may have difficulty driving because of the brightness. Use the headlight aiming control switch to lower the light axis. See earlier in this section for information on xenon headlights.

Instrument brightness control

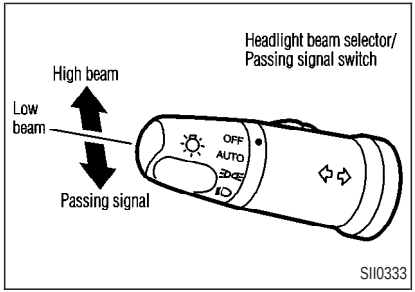


The instrument brightness control operates when the light switch is in the AUTO (ignition key is in the ON), or position.

Turn the control to adjust the brightness of instrument panel lights.

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

Headlight beam select



To select the high beam, push the lever forward. Pull it back to select the low beam.

Passing signal

Pulling the lever toward you will flash the headlight high beam.

Daytime running light system (Canada only)

The headlights 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.

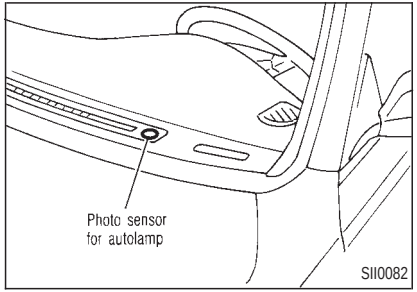
WARNING

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.

Autolamp shut-off delay

For autolamp shut-off delay setting, see "Headlamp off delay time" in the "4. Monitor, climate, audio and voice-activated control systems" section.



Be sure not to put anything on top of the photo sensor located on the top left-hand side of the instrument panel. The photo sensor controls the autolamp; if it is covered, the photo sensor reacts as if it is dark and the headlights will illuminate.

Battery saver system

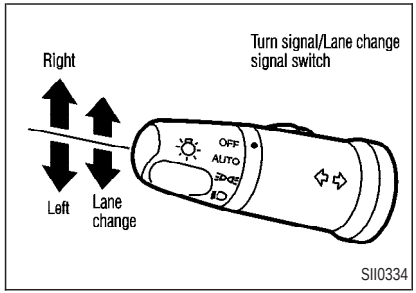
- When the headlight switch is in the ≡DC≡ or ≡D position while the ignition key is in the ON position, the lights will automatically turn off 45 seconds after the ignition switch has been turned to the OFF position. However, the lights will turn off if the driver's or front passenger's door is opened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

- ***When you turn on the headlight switch again after the lights automatically turns off, the lights will not turn off automatically. Be sure to turn the light switch to the OFF position when you leave the vehicle for extended periods of time, otherwise the battery will go dead.***
- ***Never leave the light switch on when the engine is not running for extended periods of time.***

TURN SIGNAL SWITCH

Turn signal

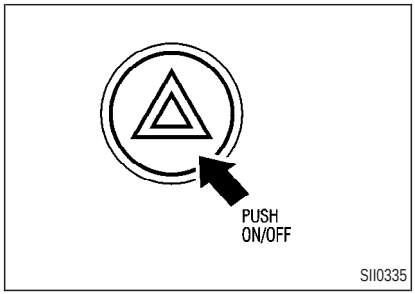


Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

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



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

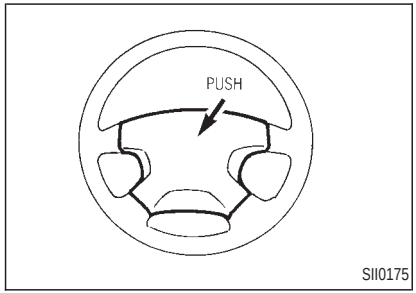
WARNING

- ***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

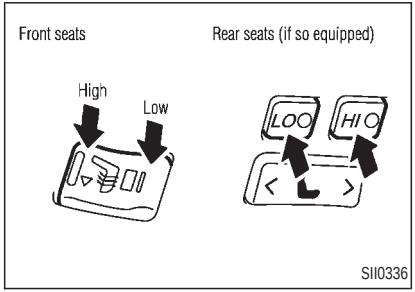


To sound the horn, push the center pad area of the steering wheel.

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 (if so equipped)



The front seats or rear seats (if so equipped) are warmed by built-in heaters. The switches are located on the center console and on the inside of the rear door.

1. Start the engine.
2. Push the low or high position of the switch, as desired, depending on the temperature. The indicator light in the switch will illuminate.

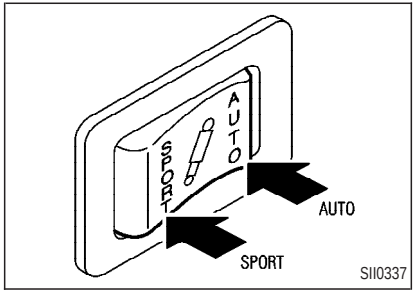
   The heater is controlled by a thermostat, automatically turning the heater on and off. The indicator light will remain on as long as the switch is on.
3. When the seat is warmed or before you leave the vehicle, be sure to turn the switch off.

CAUTION

- ***Do not use the seat heater for extended periods or when no one is using the seat.***
- ***Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.***

- ***Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.***
- ***Any liquid spilled on the heating seat should be removed immediately with a dry cloth.***
- ***When cleaning the seat, never use benzine, thinner, or any similar materials.***
- ***If any abnormalities are found or the heating seat does not operate, turn the switch off and have the system checked by your INFINITI retailer.***
- ***The battery could run down if the heater is operated while the engine is not running.***

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.

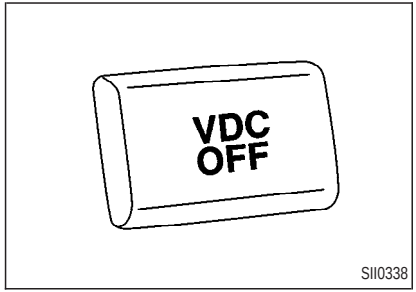
AUTO MODE

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

SPORT MODE

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

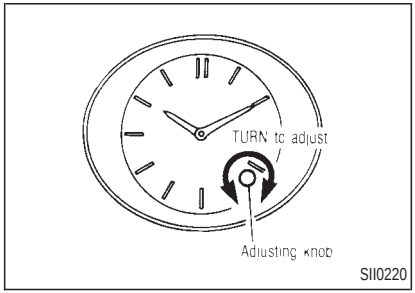
VEHICLE DYNAMIC CONTROL OFF SWITCH



To cancel the Vehicle Dynamic Control System (VDC), push the “VDC OFF” switch to turn off the system. The VDC OFF indicator will come on.

Push the “VDC OFF” switch again or restart the engine and the system will operate normally. See “Vehicle dynamic control” in the “5. Starting and driving” section.

CLOCK

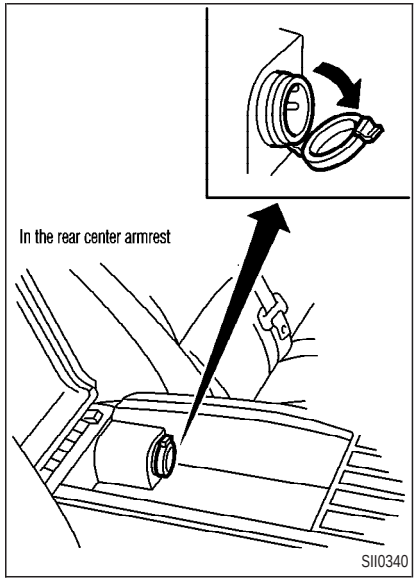


If the power supply is disconnected, the clock will not indicate the correct time. Readjust the time.

ADJUSTING THE TIME

To adjust the time, turn the adjusting knob.

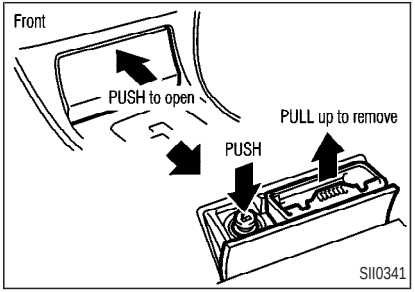
POWER OUTLET



CAUTION

- *Use caution as the socket and plug may be hot during or immediately after use.*
- *Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.*
- *Use this power outlet with the engine running. (If the engine is stopped, this could result in a discharged battery.)*
- *Avoid using when the air conditioner, headlights or rear window defogger is on.*
- *This power outlet is not designed for use with a cigarette lighter unit.*
- *Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may blow.*
- *Before inserting or disconnecting a plug, be sure to turn off the power switch of the electrical accessory being used or the ACC power of the vehicle.*
- *When not in use, be sure to close the cap. Do not allow water to contact the outlet.*

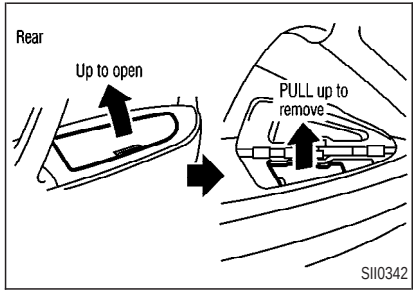
CIGARETTE LIGHTERS AND ASHTRAYS



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

Push the lighter in all the way, 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.



WARNING

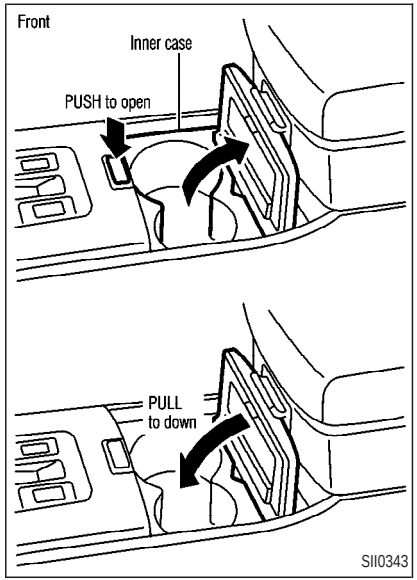
The cigarette lighter should not be used while driving so full attention may be given to vehicle operation.

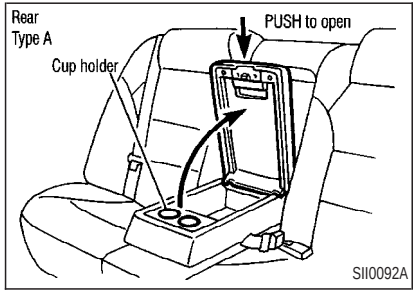
CAUTION

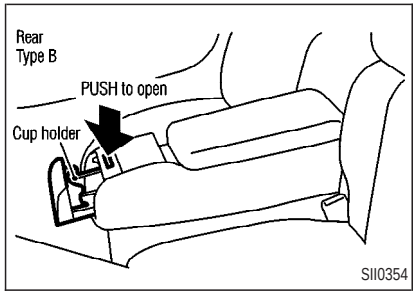
The cigarette lighter socket is a power source for the cigarette lighter element only. The use of the cigarette lighter socket as a power source for any other accessory is not recommended.

STORAGE

CUP HOLDERS







To open, push the cup holder opener switch.

To close, lower the cup holder lid and push down lightly.

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

The inner cases can be removed for cleaning. (Front side)

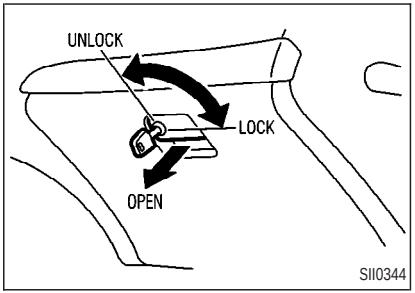
WARNING

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.***

GLOVE BOX



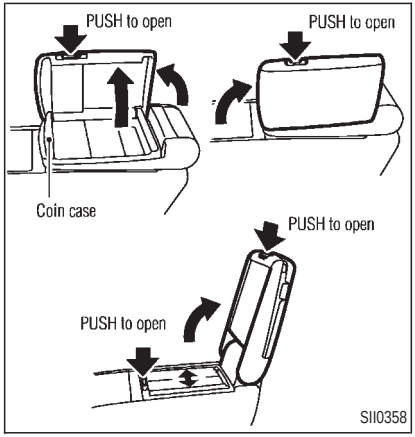
When locking or unlocking the glove box, use the emergency key or wallet key.

The glove box may be opened by pulling the handle when unlocked.

WARNING

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

CONSOLE BOX



Upper part:

- Push the button on the side of the lid to open the upper part sideways.
- The lid can be opened from the driver and front passenger seats.
- The front part is designed to be used as a coin case.

To open the lid, the right and left sides it must be closed securely.

Lower part:

While pushing up the button, open the cover.

Bottom case:

Push the button on the front of the bottom case to open the lids.

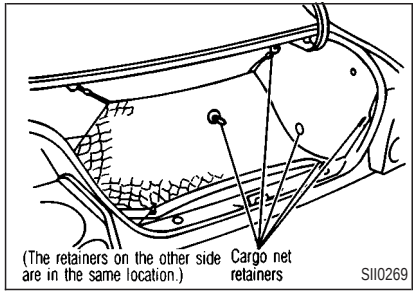
To close the lids, manually push the lids sideway.

WARNING

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

- ***Keep the center console box lid closed while driving to prevent injury in an accident or a sudden stop.***

CARGO NET



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.

To remove the cargo net, detach the hooks from the cargo net retainers.

WARNING

- ***Properly secure all cargo to help prevent it from sliding or shifting.***
- ***Be sure to secure hooks into the retainers. The cargo restrained in the net must not exceed 30 lb (13.6 kg) or the net may not stay secured.***

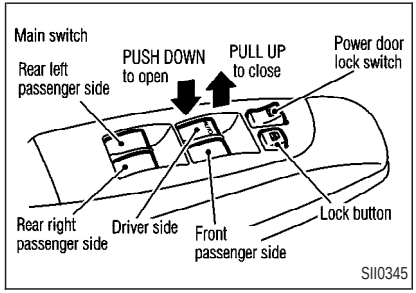
WINDOWS

POWER WINDOWS

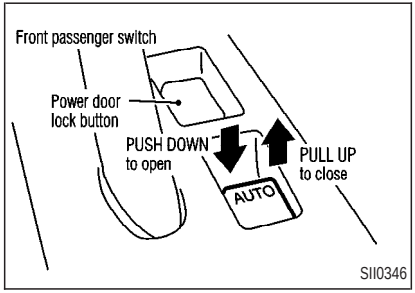
WARNING

- ***Make sure that all passengers have their hands, etc. inside the vehicle 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 vehicle. 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 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.



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

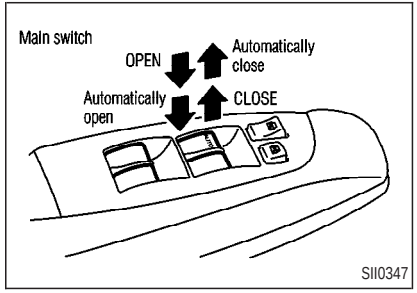


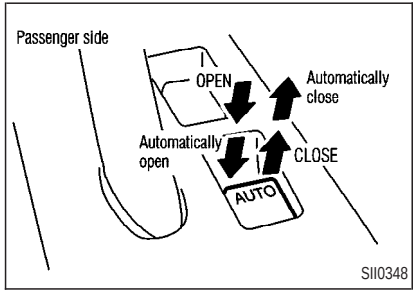
The passenger side switch will open or close only the corresponding window. To open or close the window, hold the switch down or up.

Locking passenger's windows

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

Automatic operation (For all door windows)





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 turn the switch toward the opposite side.

A light press 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.

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 (if so equipped)

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 opening while the vehicle is in motion or while the sunroof is closing.***

CAUTION

- ***Remove water drops, snow, ice or***

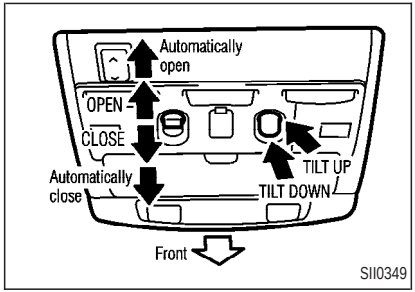
sand from the sunroof before opening.

- ***Do not place heavy objects on the sunroof or surrounding area.***

ELECTRIC SUNROOF

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 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.

Sliding the sunroof



To open the roof, press and hold the switch to the open side.

To close the roof, press and hold the switch to the closed side.

Automatic operation:

To fully open the sunroof, completely press the switch to the open side; it need not be held. The sunroof will automatically open all the way. To stop the sunroof, just press the switch toward the close side, or press the up or down 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 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 press and hold the up side of the tilt switch. To tilt

down the sunroof, press and hold the down side.

Sun shade

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

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

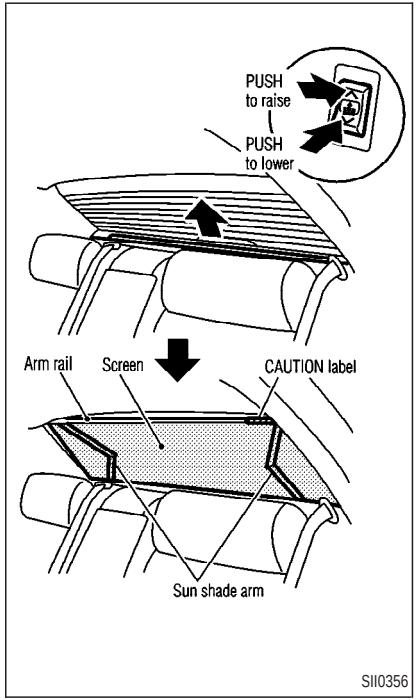
If the sunroof does not close

Have your INFINITI retailer check and repair the sunroof.

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.

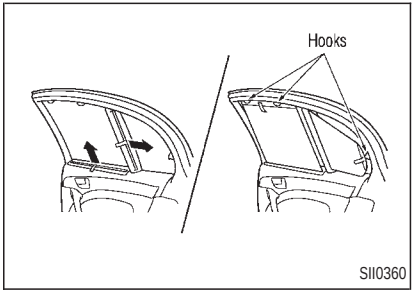
To lower the screen, push the lower side of the switch.

The switch need not be held down.

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 SHADE (if so equipped)



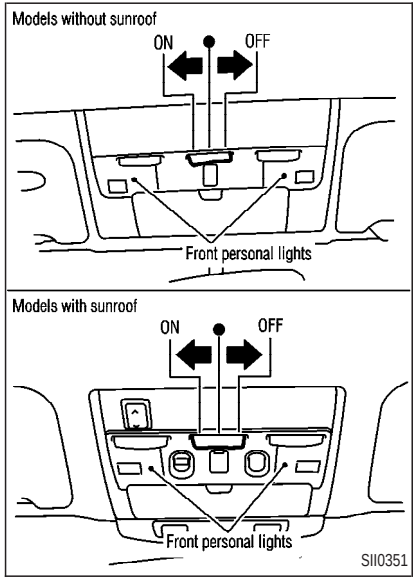
The rear door window sun shades are built in the door sash.

To use the shade, pull it out and hook on the opposite side sash.

To fold the shade, release the hooks gently.

INTERIOR LIGHTS

The interior light has a three-position switch.



While the switch is in the center • position, 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.

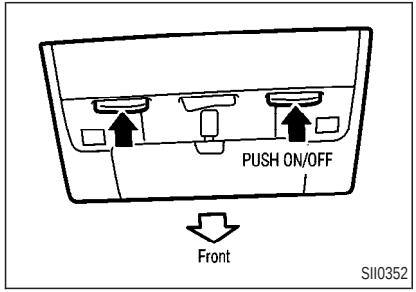
The lights remaining on time can be adjusted see "Vehicle information" in the "4. Monitor, climate, audio and voice-activated control systems" section.

CAUTION

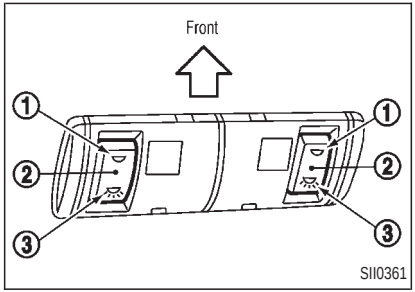
Leaving the light switch in the ON position for extended periods of time will result in a discharged battery.

PERSONAL LIGHTS

FRONT



REAR



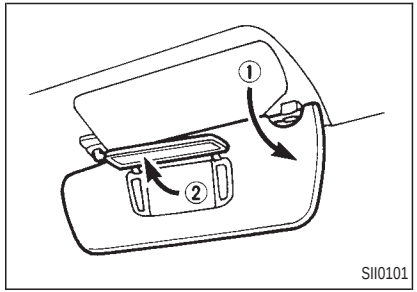
The lights will turn on/off depending on what side of the switch is pressed:

① The light stays on when pressed to this position.

② When the door is opened, both the right and left lights come on. 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 the any of the doors are opened. See “Interior lights” earlier in this section.

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

VANITY MIRROR LIGHTS



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

TRUNK LIGHT

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

HomeLink® Universal Transceiver:

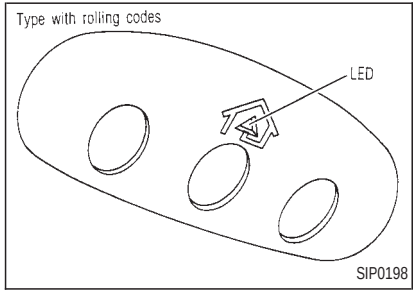
- Will operate most Radio Frequency (RF) devices such as garage doors, gates, home and office lighting, entry door locks and security systems.
- Is powered by your vehicle's battery. No separate batteries are required. If the vehicle's battery is discharged or is disconnected, HomeLink® will retain all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

Once the HomeLink® Universal Transceiver is programmed, retain the original transmitter for future programming procedures (i.e., 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 "Clearing the programmed information" 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 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 the door, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.***
- ***During the programming procedure your garage door or security gate will open and close (if the transmitter is within range). Make sure that people or objects are clear of the garage door, gate, etc. that you are programming.***
- ***Your vehicle's engine should be turned off while programming your transmitter. The HomeLink® Universal Transceiver may not work with older garage door openers that do not meet current***

Federal Consumer Safety Standards.



PROGRAMMING HomeLink®

1. With the ignition key in the OFF position, press and hold the two outside buttons, and release when the indicator light begins to flash (approximately 20 seconds). This procedure erases the factory set default codes and does not have to be followed when programming additional hand-held transmitters.
2. Hold the end of the hand-held transmitter (from the device you wish to train) approximately 2 to 5 inches (50 to 127 mm) away from the surface of HomeLink® keeping the indicator light in view.
3. Using both hands, simultaneously push the hand-held transmitter button and the desired HomeLink® button. Do not release the buttons until step 4 has been completed.

   NOTE:

   Some garage door openers may require the procedures noted under "Canadian Programming".
4. The HomeLink® indicator light will flash, first slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. The rapid flashing light indicates the HomeLink® Universal Transceiver has been successfully programmed.

To program the remaining two buttons, follow steps 2 through 4.

If, after repeated attempts, you do not successfully program the HomeLink® Universal Transceiver to learn the signal of the hand-held transmitter, refer to "Rolling Code Programming" later in this section.

PROGRAMMING HomeLink® FOR CANADIAN CUSTOMERS

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

NOTE:

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

OPERATING THE HomeLink® UNIVERSAL TRANSCEIVER

The HomeLink® Universal Transceiver (once programmed) may now be used to activate the garage door, etc. To operate, simply press 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 batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the HomeLink® surface.
- press and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 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, press and hold the two outside buttons and release when the indicator light begins to flash (approximately 20 seconds).

ROLLING CODE PROGRAMMING

Rolling code garage door openers (or other rolling code devices) which are "code protected" and manufactured after 1996, may be determined by the following.

A. Reference the garage door opener Owner's Manual for verification.

B. The hand-held transmitter appears to program the HomeLink® Universal Transceiver but does not activate the garage door.

C. Press and hold the trained HomeLink®

button. If the garage door opener has the rolling code feature, the HomeLink® indicator light will flash rapidly, then remains on after 2 seconds.

To program the HomeLink® Universal Transceiver to a garage door opener with the rolling code feature, follow these instructions after completing the "Programming HomeLink®" procedures earlier in this section. The aid of a second person may make the following procedures quicker and easier.

1. Locate the training button on the garage door opener motor unit. Exact location and color of the button may vary by garage door opener brand. If there is difficulty locating the training button, reference the garage door opener Owner's Manual.
2. Press the training button on the garage door opener motor unit (which may activate a training light).

NOTE:

Following step 2, there are 30 seconds in which to initiate step 3.

3. Firmly press and release the programmed HomeLink® button. Press and release the HomeLink® button a second time to complete the training process. (Some garage door openers may require you to do this procedure a third time to complete the training.)

The garage door opener should now recognize the HomeLink® Universal Transceiver and activate when the HomeLink® button is pressed. The remaining two buttons may now be programmed (if not yet programmed, follow steps 2 through 4 in the "Programming HomeLink®" procedures earlier in this section).

REPROGRAMMING A SINGLE HomeLink® BUTTON

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

1. Press and hold the desired HomeLink® button. **Do not** release the button 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. Press and hold the hand-held transmitter button.
4. The HomeLink® indicator light will flash, first slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

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

IF YOUR VEHICLE IS STOLEN

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

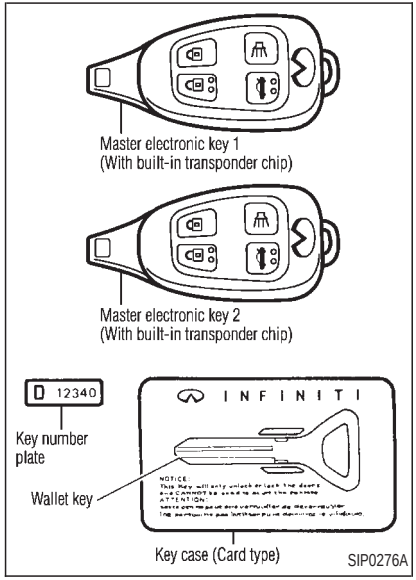
DOC: ISTC 1763K1313

FCC I.D.: CB2V67690

3 PRE-DRIVING CHECKS AND ADJUSTMENTS

Keys (Electronic ignition key) 3-2
Doors 3-3
Locking with key (Driver's door key) 3-4
Opening and closing windows 3-4
Locking with inside lock knob 3-4
Locking with power door lock switch 3-5
Child safety rear door lock 3-5
Remote keyless entry system 3-6
How to use remote keyless entry system 3-6
Opening windows 3-9
Electronic key 3-10
Battery replacement 3-10
Hood 3-12
Trunk lid 3-12
Opener operation 3-12
Key operation 3-13
Interior trunk lid release 3-13
Fuel filler lid 3-14
Opener operation 3-14
Fuel filler cap 3-14
Steering wheel 3-15
Tilt operation 3-16
Telescopic operation 3-16
Sun visors 3-16
Using the sun visors 3-16
Mirrors 3-17
Automatic anti-dazzle inside mirror 3-17
Outside mirrors 3-17
Automatic drive positioner 3-19
Automatic drive positioner operation 3-19

KEYS (Electronic ignition key)



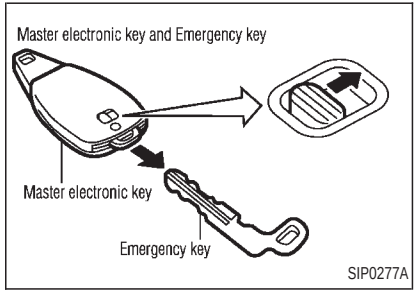
The master electronic ignition keys have a transponder.

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

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.



How to use the emergency key

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

Removing the key

- Release the lock knob at the rear of the master electronic ignition key and remove the emergency key.
- 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.

Record the key number on the key number plate supplied with your keys and keep it in a safe place (such as your wallet), not in the vehicle. INFINITI does not record any key number so it is very important to keep track of your key number plate.

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

INFINITI VEHICLE IMMOBILIZER SYSTEM KEY - Master electronic ignition keys:

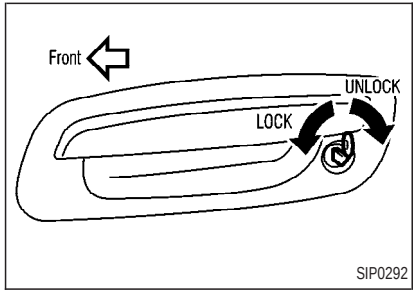
As many as 4 Infiniti electronic ignition keys can be used with one vehicle. New keys must be registered to the Infiniti Vehicle Immobilizer System components in your vehicle by your INFINITI retailer. Bring all Infiniti electronic ignition keys to your INFINITI retailer for registration. The registration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

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 (Driver's door only)



Manual

To lock the door, turn the driver's door key toward the front of the vehicle.

To unlock, turn it toward the rear.

Power

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 will lock all doors.
- Turning the driver's door key one time to the rear of the vehicle will unlock the corresponding door. From that position, returning the key to neutral (where the key can only be removed and inserted.) and turning it to the rear again within 3 seconds will unlock all doors.

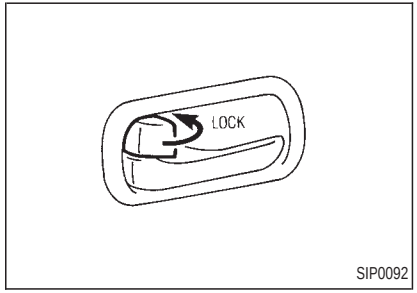
OPENING AND CLOSING WINDOWS

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 the front door is opened.

LOCKING WITH INSIDE LOCK KNOB



Manual

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

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

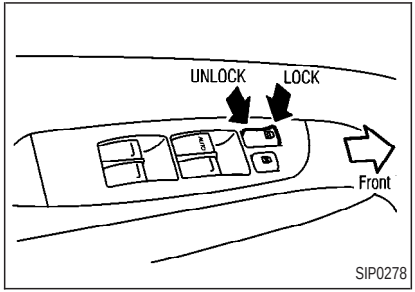
The inside lock knob of the front door cannot be set to the lock position with front door opened and with the key in the ignition. If this is attempted, all doors will unlock.

Power

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

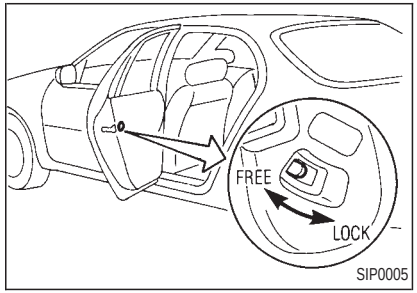
Pushing the front door inside lock knob to the lock position will lock all doors.

LOCKING WITH POWER DOOR LOCK SWITCH



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

CHILD SAFETY REAR DOOR LOCK



Child safety locking helps prevent doors from being opened accidentally, especially when small children are in the vehicle.

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

REMOTE KEYLESS ENTRY SYSTEM

It is possible to lock/unlock all doors, to release the trunk lid and to 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 retailer.

The electronic keys will not function when:

- the battery is dead,
- 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 authorized INFINITI retailer.

HOW TO USE REMOTE KEYLESS ENTRY SYSTEM

Setting hazard indicator and horn mode

This vehicle is set in hazard indicator and horn mode when you first receive the vehicle.

In hazard indicator and horn mode, when the LOCK button is pushed, the hazard indicator flashes twice and the horn chirps once. When the UNLOCK button is pushed, the hazard indicator flashes once.

If 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.

OPERATION GUIDE

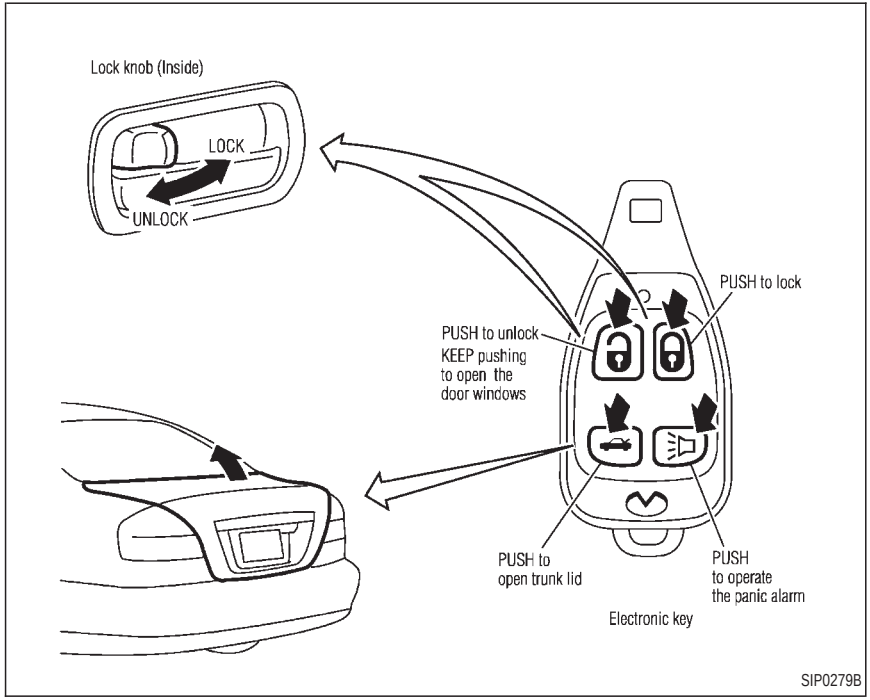
MODE (Push "LOCK" and "UNLOCK" buttons for more than 2 seconds to switch)		Switching indicator	LOCK	UNLOCK
Hazard indicator and horn →	HAZARD INDICATOR ONLY	HAZARD – 3 times	HAZARD – twice	No operation
Hazard indicator only →	HAZARD INDICATOR AND HORN	HAZARD – once HORN – once	HAZARD – twice HORN – once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

SIP0289

Locking doors

1. Remove the ignition key.
2. Close all the doors.
3. Push the LOCK button 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 as a reminder that the doors are already locked.



Unlocking doors

1. Push the UNLOCK button 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 pressing 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.

Releasing the trunk lid

1. Push the trunk button on the electronic key for longer than 0.5 seconds with the key removed from the key cylinder.
2. The trunk lid opens.

The trunk lid will not open with the trunk lid release cancel switch turned to OFF. See "Trunk lid" later in this section for cancel switch. It can be opened only with the key.

Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the alarm to call attention as follows:

1. Push the panic button on the 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 pressed, or
   - The panic button on the electronic key is pushed for longer than 0.5 seconds.

OPENING WINDOWS

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

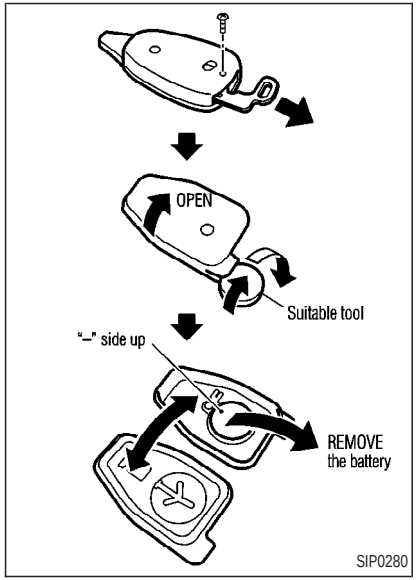
- To open the windows, press the UNLOCK button on the electronic key for **longer than 3 seconds** after the door is unlocked.

The rear door windows will operate 0.5 second after the front windows' operation. The door windows will open while pressing 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 using a CONSULT-II diagnostic tool. Please contact an authorized INFINITI retailer.

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

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.
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. Press the key button two or three times to check its operation.

See your INFINITI retailer 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 key fob is water-proof; however, if it does get wet, immediately wipe completely dry.**

FCC Notice:

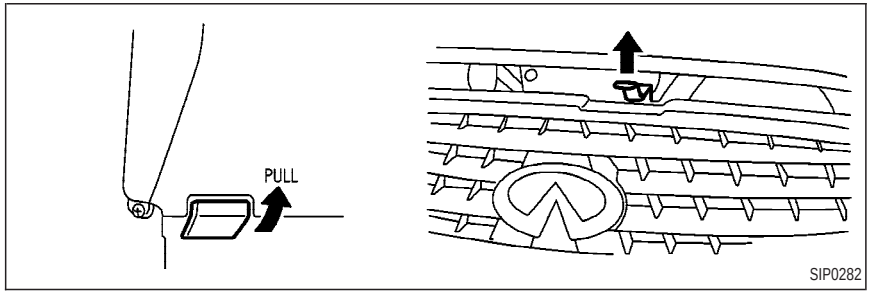
Changes or modifications not expressly approved by the manufacturer compliance could void the user's authority to operate the equipment.

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.

HOOD



1. Pull the hood lock release handle located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever 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, avoid injury by not opening the hood.

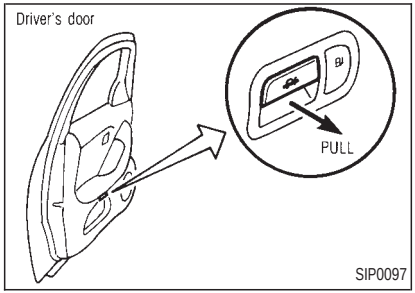
TRUNK LID

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.***

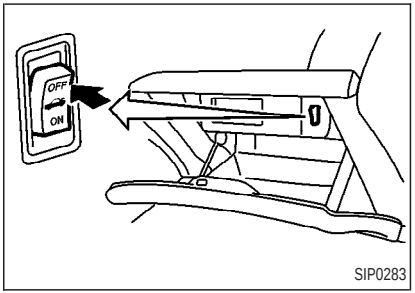
OPENER OPERATION

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



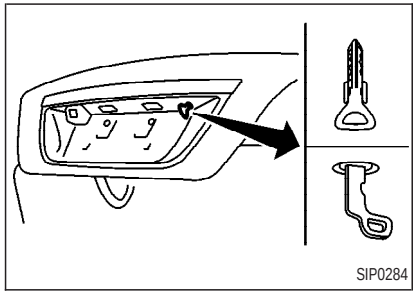
To open the trunk lid, pull the release switch. To close, push the trunk lid down.

Cancel switch



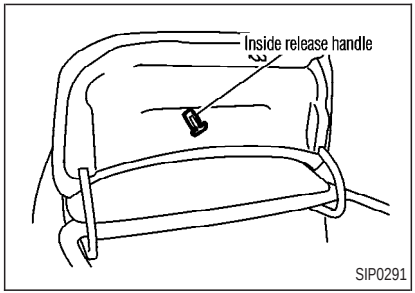
When the cancel switch located inside the glove box is OFF, the trunk lid cannot be opened with the trunk lid release switch or the key fob. It can be opened only with the emergency key or wallet key.

KEY OPERATION



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

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 closed, when not in use, and prevent children's access to car keys.

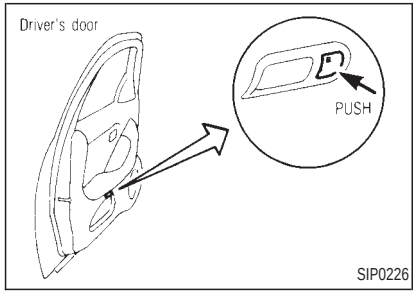
The interior trunk lid release mechanism provides a means of escape for children and adults in the event they become locked inside the trunk.

To open the trunk lid from the inside, pull the release handle 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 trunk lid inside the trunk compartment.

FUEL FILLER LID

OPENER OPERATION



To open the fuel filler lid, push the opener switch. To lock, close the fuel filler lid securely.

FUEL FILLER CAP

WARNING

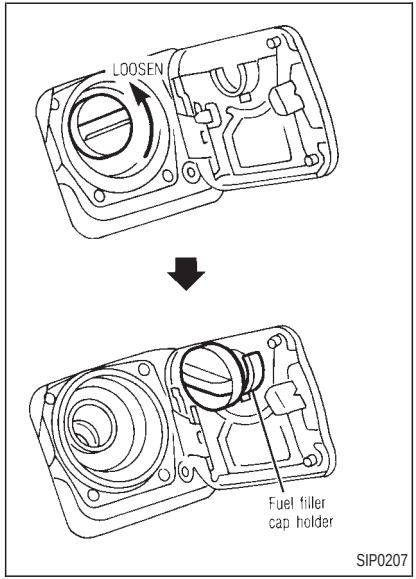
- ***Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop engine and do not smoke or allow open flames or sparks near the vehicle when refueling.***
- ***Fuel may be under pressure. Turn the cap one-half turn, and wait for any hissing sound to stop to prevent personal injury from fuel spraying out. 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.***

CAUTION

- ***If fuel is spilled on the car 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 authorized INFINITI retailer. For additional information, see "Malfunction indicator lamp (MIL)" in the "2. Instruments and controls" section.***



The fuel filler cap is a ratcheting type. Tighten the cap clockwise until ratcheting clicks are heard.

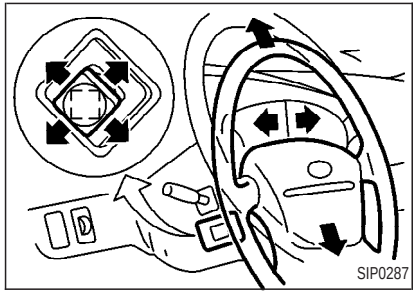
Put the fuel filler cap on the cap holder while refueling.

STEERING WHEEL

WARNING

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

TILT OPERATION



Push the lever to adjust the steering wheel up or down to the desired position.

When the steering column is at the upper extent of its adjustment, pushing the manual switch upward will not move the steering column further. After releasing the switch, the steering wheel may lower slightly. This is not a malfunction.

Jump up operation

The automatic drive positioner system will make the steering wheel jump up automatically. This lets the driver get into and out of the seat more easily.

TELESCOPIC OPERATION

Push the lever to adjust the steering wheel forward or backward to the desired position.

⚠ *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 seat back and as far away as practical from the steering wheel. Always use the seatbelts.

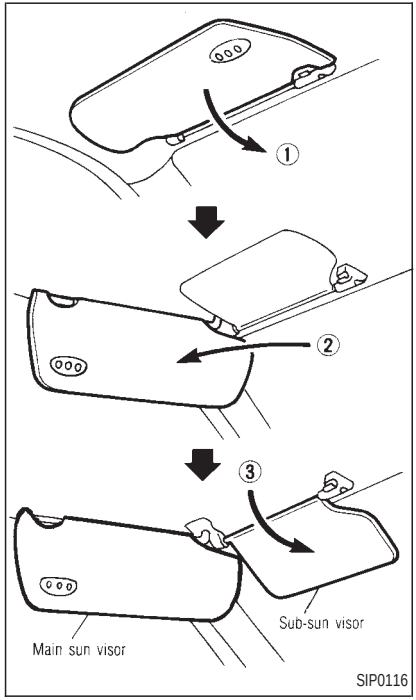
SUN VISORS

USING THE SUN VISORS

⚠ *CAUTION*

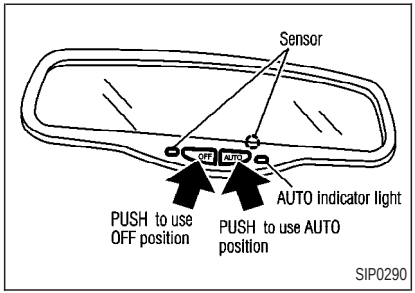
- ***Do not store the main sun visor before storing the sub-sun visor.***
- ***Do not pull the sub-sun visor forcedly downwards.***

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.



MIRRORS

AUTOMATIC ANTI-DAZZLE INSIDE MIRROR

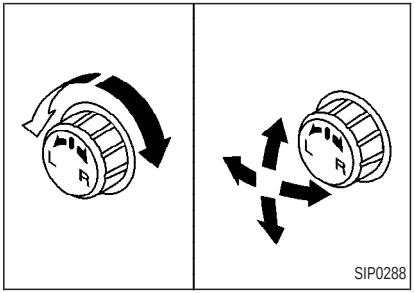


The inside mirror is designed so that it automatically changes reflection according to the intensity of the headlight of the following vehicle.

When the inside mirror switch is in the AUTO position, excessive glare from the headlights of the vehicle behind you will be reduced. When the switch of the inside mirror is in the OFF position, the inside mirror will operate normally.

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

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

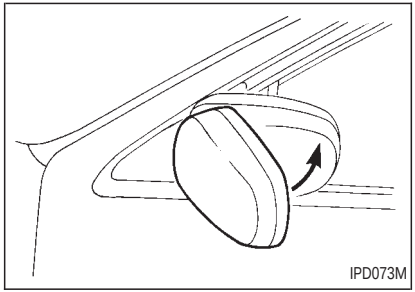
left or right side mirror, then adjust using the control button.

These mirrors will be heated when the rear window defogger switch is operated.

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.

Foldable outside mirrors



Push the outside mirror backward to fold it.

Reverse tilt-down feature (if so equipped)

When the following steps 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.
3. The shift 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 shift lever is moved to any position other than R (Reverse).
- The outside mirror control switch is set to the N (Neutral) 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.

AUTOMATIC DRIVE POSITIONER

AUTOMATIC DRIVE POSITIONER OPERATION

This system is designed so that the driver's seat and steering column 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.

When one of the following conditions is met, the driver's seat will slide backward and the steering wheel will move up:

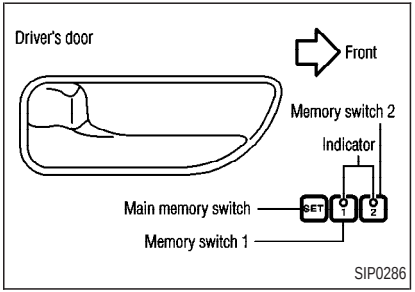
- When the key is removed from the ignition switch.
- When the driver's door is opened with the key turned to LOCK.
- When the key is turned from ACC to LOCK with the driver's door open while the automatic transmission selector lever is in the P (Park) position.

When one of the following conditions is met, the driver's seat and steering wheel will return to the positions before being set.

- When the key is inserted into the ignition switch.
- When the driver's door is closed with the key turned to LOCK.
- When the key is turned from ACC to ON while the automatic transmission selector lever is in the P (Park) position.

Procedure for storing memory

Two positions can be stored in the automatic drive positioner memory. **Follow these procedures to use the memory system.**



1. Set the automatic transmission selector lever to the P (Park) position.
2. Turn the ignition ON.
3. Adjust the driver's seat, outside mirrors and steering column to the desired positions by manually operating each adjusting switch. For additional information, see "Seats" in the "1. Seats, restraints and supplemental air bag systems" section and "Steering wheel", "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 when backing up

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 automatic transmission shift 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.

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 indi-

cator light will stay on for approximately 5 seconds.

- If the battery cable is disconnected, or if the fuse blows, the memory will be canceled. In such a case, reset the desired positions using the following procedures.

1. Open and close the driver's door more than two times with the ignition key in the LOCK position.
2. Reset the desired position using the previous procedure.

Selecting the memorized position

1. Set the automatic transmission 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, outside mirror and steering column 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 or more of the memory switches are simultaneously pushed while the automatic drive positioner is operating.
- when the adjusting switch for the driver's seat is turned on while the automatic drive positioner is operating.
- when the cancel switch located on the instrument panel is pushed to cancel.
- 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 adjusted and canceled. See "Automatic seat slide in getting off" and "Lift steering column when exiting vehicle" in the "4. Monitor, climate, audio and voice-activated control systems" section.

4 MONITOR, CLIMATE, AUDIO AND VOICE-ACTIVATED CONTROL SYSTEMS

Safety note 4-2
Control panel button functions 4-3
Names of the components 4-3
How to use joystick and "**ENTER**" button 4-4
How to use "**PREV**" button 4-4
Setting up the start-up screen (for models with navigation system) 4-5
How to use the "**SETTING**" button 4-5
"**Audio**" settings 4-6
"**Display**" settings 4-6
Vehicle electronic systems 4-7
Language/unit (for models without navigation system) 4-9
Rear view monitor (if so equipped) 4-10
How to read the displayed lines 4-10
Adjusting the screen 4-11
Operating tips 4-11
Ventilators 4-12
Automatic climate control 4-13
Automatic operation 4-14
Manual operation 4-15
Ambient temperature 4-16
Rear control button (if so equipped) ... 4-16
Operating tips 4-16
Ventilation air filter 4-17
Servicing climate control 4-17
Audio system 4-17
Radio 4-17
FM radio reception 4-18
AM radio reception 4-19
Audio operation precautions 4-19
FM-AM radio with cassette player and compact disc (CD) player 4-21
CD care and cleaning 4-29
Steering wheel switch for audio control 4-30
Audio rear control switch (if so equipped) 4-30
Antenna 4-31

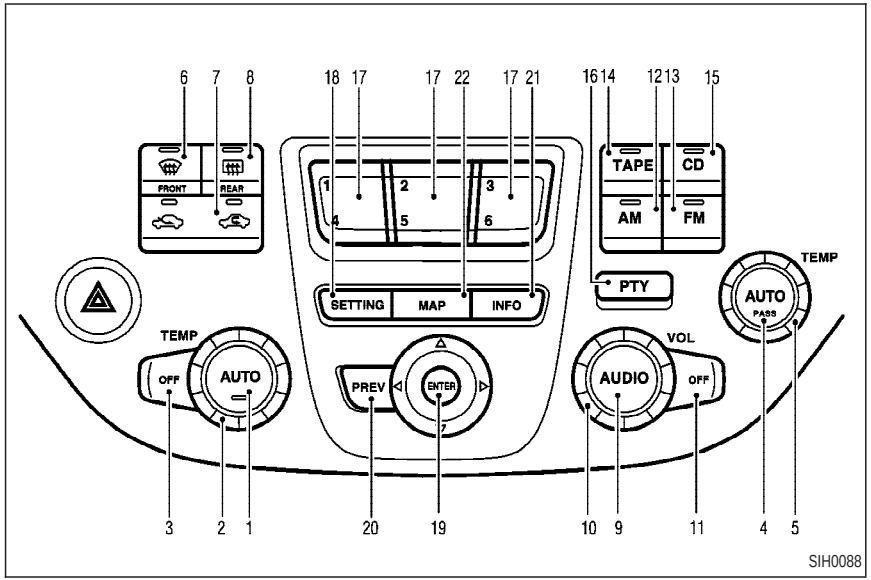
Car phone or CB radio 4-32
Vehicle information..... 4-32
Warning indicator..... 4-33
Vehicle information display..... 4-34
Trip computer information..... 4-34
Fuel economy information 4-35
Maintenance information..... 4-35
Tire pressure information 4-36
Voice-activated control system (VACS) (if so equipped)..... 4-37
Feature..... 4-37
Using the system 4-37
Personal vocabulary 4-38
How to say numbers..... 4-38
Voice command descriptions..... 4-39
Speker adaptation (SA) mode..... 4-43
Trouble-shooting guide..... 4-46

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 the driving operation.*
- *Do not disassemble or modify this system. If you do, it may result in accidents, fire, or electrical shock.*
- *Do not use this system if you notice any abnormality, such as a frozen screen or lack of sound. Continued use of the system may result in accident, fire or electric shock.*
- *In case you notice any foreign object in the system hardware, spill liquid on it, or notice smoke or smell coming from it, stop using the system immediately and contact your nearest INFINITI retailer. Ignoring such conditions may lead to accidents, fire, or electric shock.*

CONTROL PANEL BUTTON FUNCTIONS



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.

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.

NAMES OF THE COMPONENTS

1. "**AUTO**" automatic climate control on button; refer to page 4-13.
2. Temperature control knob (driver only or driver and passenger); refer to page 4-13.

3. "**OFF**" button for climate control system off.
4. "**AUTO PASS**" on button (passenger side); refer to page 4-13.
5. Temperature control knob (passenger side); refer to page 4-13.
6. " " front defogger button; refer to page 4-13.
7. Air recirculation " ", fresh " " button; refer to page 4-13.
8. " " rear window defogger button; refer to the "2. Instruments and controls" section.
9. "**AUDIO**" on button; refer to page 4-21.
10. Volume control knob for audio
11. "**OFF**" button for audio
12. "**AM**" band select button; refer to page 4-21.
13. "**FM**" FM1 and FM2 band select button; refer to page 4-21.
14. "**TAPE**" play button; refer to page 4-21.
15. "**CD**" play button; refer to page 4-21.
16. "**PTY**" program type button; refer to page 4-21.
17. A/C and audio control button " 1 " to " 6 "; refer to page 4-13 and 4-21.
18. "**SETTING**" button for audio, display and Vehicle Electronic Systems; refer to page 4-5.
19. JOYSTICK and "**ENTER**" push button; refer to page 4-4.
20. "**PREV**" previous button; refer to page 4-4.
21. "**INFO**" vehicle information button; refer to page 4-33.
22. "**MAP**" button (Navigation system equipped vehicles only); refer to the separate Navigation (NAVI) system Owner's Manual.

HOW TO USE JOYSTICK AND "ENTER" BUTTON

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

HOW TO USE "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 screen (if so equipped).

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

SETTING UP THE START-UP SCREEN (for models with navigation system)

When you turn the ignition key to ACC, the SYSTEM START-UP warning is displayed on the screen. Read the warning and select the "**I AGREE**" key then push the "**ENTER**" button.

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

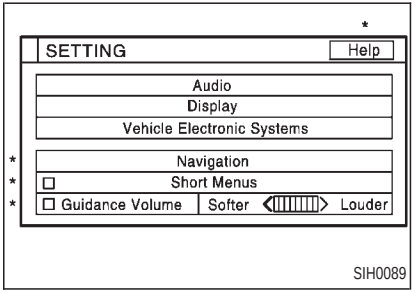
To proceed to the next step, refer to the separate Navigation system Owner's Manual.

HOW TO USE THE "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.

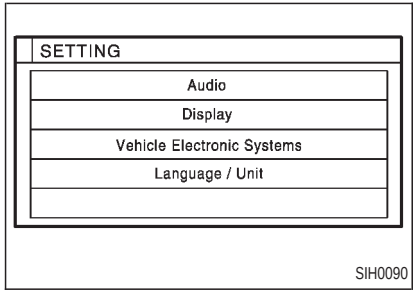
The following display will appear when the "**SETTING**" button is pushed.

For models with navigation system:



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

For models without navigation system:

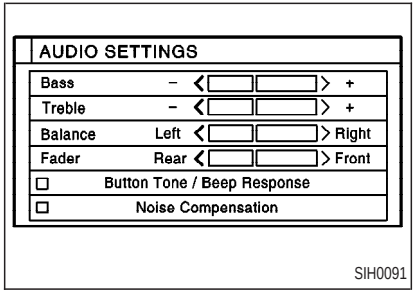


For rear view monitor equipped models:

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 and selecting "**Audio**" key with the joystick and pushing the "**ENTER**" button.



To adjust the speaker tone quality and sound (balance and fader), select the "**Bass**", "**Treble**", "**Balance**" or "**Fader**" key and adjust 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.)

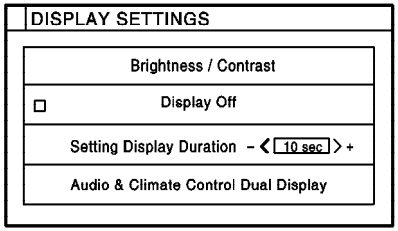
To stop the beep, select the "**Button Tone/Beep Response**" key using the joystick and push the "**ENTER**" button. The indicator of the "**Button Tone/Beep Response**" key will turn off.

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.



SIH0092

Brightness/Contrast (Map Background (for NAVI models))

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, the contrast to Lower or Higher using the joystick.

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 map display (Navigation system only), the Audio & Climate Control Dual Display, SETTING or VEHICLE INFO. 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

You can set the confrontation continuance operation time for the audio, climate control and settings. When you finish setting the confrontation continuance operation time, the display on the audio or air conditioner control will return to the previous display automatically.

To set the confrontation continuance operation time, select the current time setting with the joystick and push the "**ENTER**" button.

Audio & Climate Control Dual Display

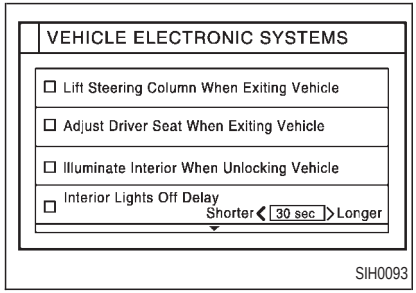
Select the "**Audio & Climate Control Dual Display**" key and push the "**ENTER**" button. The audio and climate control setting condition will appear on the screen.

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

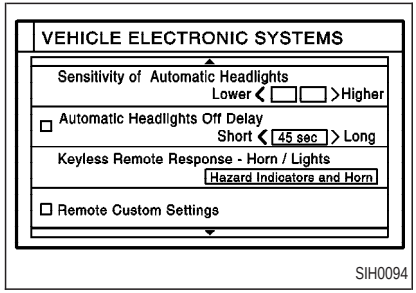
VEHICLE ELECTRONIC SYSTEMS

The following display will appear when selecting the "**Vehicle Electronic Systems**" key with the joystick and pushing the "**ENTER**" button.

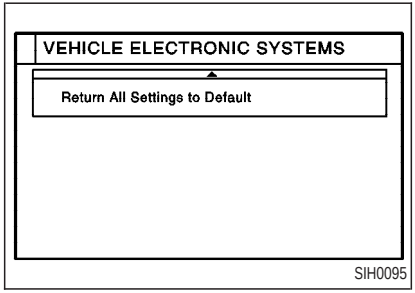
You can set the various electronic systems operating conditions.



SIH0093



SIH0094



SIH0095

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 pressed.
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 exceptional ease of entry and exit.

Adjust driver seat when exiting vehicle

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

Illuminate interior when unlocking vehicle

The interior light automatically turns on when the door is unlocked using the key fob or ignition key.

Interior lights off delay

The length of time required to unlock a door and remove the key from the ignition switch can be set. The length of time required to close the driver's door and turn off the interior light can also be set.

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 turn off timer to extinguish the headlights in AUTO position.

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

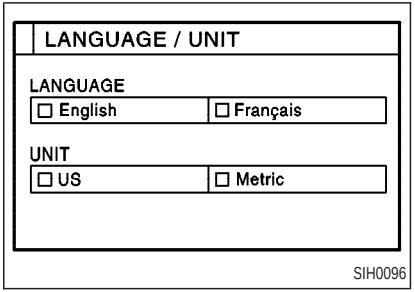
If you unlock a door with the same key fob used when locking with the "**Remote Custom Settings**" key on, the audio settings you made last time remain the same. As may as four electronic ignition keys can be used with one vehicle.

Return all vehicle settings to default

When this key is turned on using the "**ENTER**" button, all settings made by VEHICLE ELECTRONICS will return to the initial conditions.

LANGUAGE/UNIT (For models 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 (if so equipped)

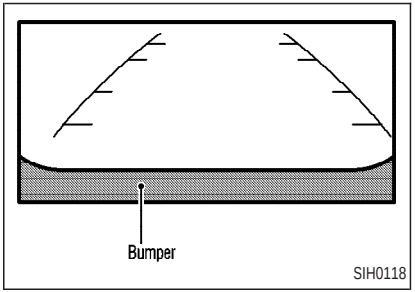
When the selector lever is shifted into the R (Reverse) position, the monitor display shows view to the rear of the vehicle.

WARNING

- ***The rear view camera is a convenience but it is not a substitute for proper backing and should not be used for lane changes. 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 in the rear view monitor 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.***
- ***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.***

HOW TO READ THE DISPLAYED LINES

Lines which indicate the vehicle clearance and distances are displayed on the monitor.



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

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.

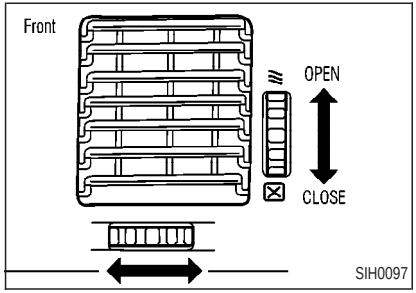
- When it is difficult to see in the rearward direction due to shady conditions, press the "**ENTER**" button to make objects in the monitor brighter.
- To change the brightness, press the "**ENTER**" button again, turn the key switch OFF or shift the reverse and wait for 10 seconds.

OPERATING TIPS

- When the selector lever is shifted to R, objects on the monitor screen automatically change to those of the rear view monitor. 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 the wax with a clean

cloth dampened with mild detergent diluted with water.

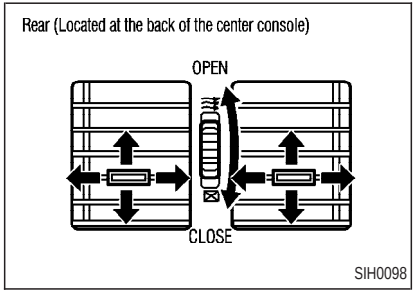
VENTILATORS

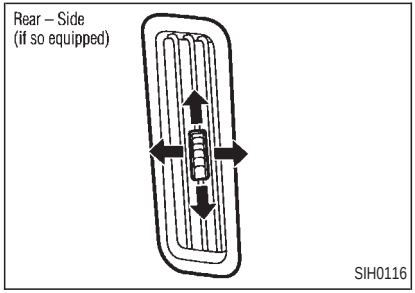


Open or close, and adjust the air flow direction of ventilators.

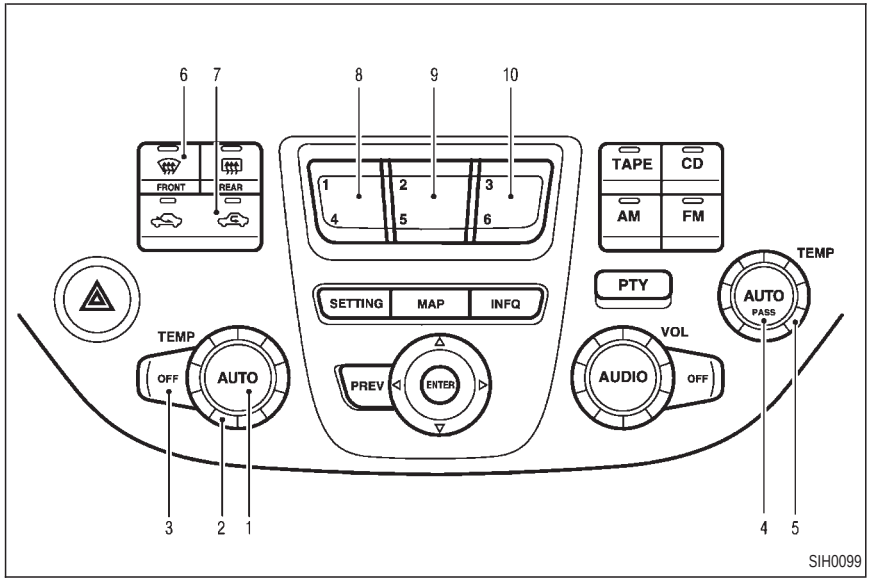
⊠ : This symbol indicates that the vents are closed.

≋ : This symbol indicates that the vents are open.





AUTOMATIC CLIMATE CONTROL



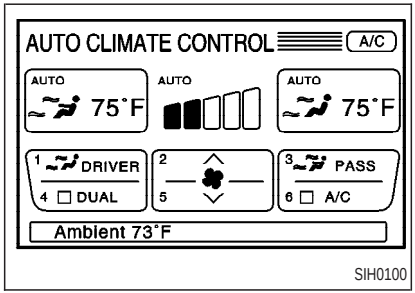
1. "**AUTO**" climate control on button
2. Temperature control knob (driver only, or driver and passenger)
3. "**OFF**" button for climate control system
4. "**AUTO PASS**" on button (passenger side)
5. Temperature control knob (passenger side)
6. " " front defogger button
7. Air recirculation " ", fresh " " buttons
8. Air conditioner control " 1 " ("**DRIVER**" key), " 4 " ("**DUAL**" key) buttons
9. A/C control " 2 " (" " fan speed up), " 5 " (" " fan speed down)
10. A/C control " 3 " ("**PASS**" key), " 6 " ("**A/C**" key) buttons

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

WARNING

- ***The air conditioner cooling function operates only when the engine is running.***
- ***Do not leave children, impaired adults, or pets alone in your vehicle. 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 air conditioner controls should not be done while driving, so full attention may be given to vehicle operation.***

When the "**AUTO**" button or "**AUTO PASS**" button is pushed, the following display 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 "3".

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 "4" 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.

Heating (A/C off)

Use this mode when you need to heat only.

1. Push the "**A/C**" key using "**A/C**" control button " 6 " (A/C 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 (A/C) mode, push the "**A/C**" control button " 6 " again. (The indicator will turn on.)

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 " 2 " 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 the 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 " 2 " or " 5 " to change the fan speed manually.

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

Air recirculation

Push the air recirculation button "

" to recirculate interior air inside the vehicle. 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 " ".

Fresh air

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

Air flow control

Pushing the "**A/C**" control button " 1 " (Select the " 1 **DRIVER** " key — driver side) or " 3 " (Select the "3 **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 outside 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 direction and other driving conditions. The display may differ from the actual outside temperature or the temperature displayed on various signs or billboards.

REAR CONTROL BUTTON (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

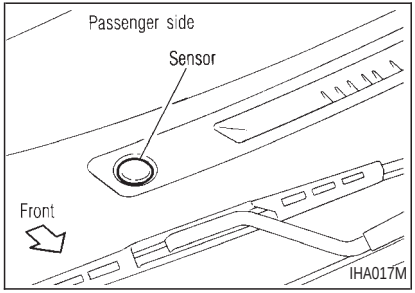
" button: Fan speed control up (Max fan speed → return to Low fan speed)

" " button: Air flow selecting (center console)

" TEMP " 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.



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

VENTILATION AIR FILTER

The climate control system is equipped with a ventilation air filter which collects dirt, pollen, dust, etc. and it is also equipped with a deodorant filter to reduce odor. To make sure air conditioner heats, defogs, and ventilates efficiently, replace the filter in accordance with the maintenance schedule in this manual. To replace the filter, contact your INFINITI retailer.

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

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 "10. Technical and consumer information" for climate control system refrigerant and lubricant recommendations.

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

WARNING

The climate control system contains refrigerant under high pressure. To avoid personal injury, any air conditioner service should be done only by an experienced technician with proper equipment.

AUDIO SYSTEM

RADIO

Turn the ignition key to ACC or ON and press 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.

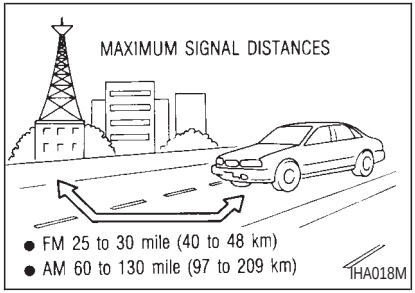
Using a cellular phone in or near the vehicle may influence radio reception quality.

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.

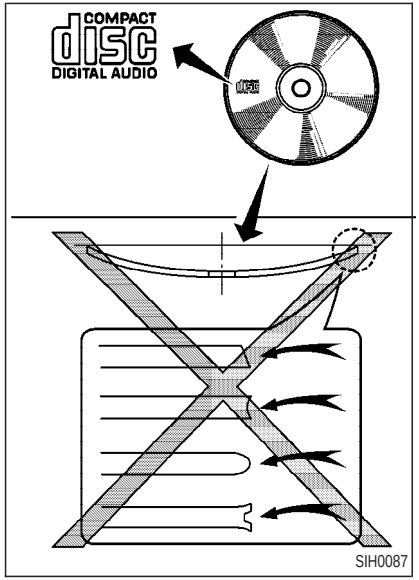
Static: Caused by thunderstorms, electrical power lines, electric signs and even traffic lights.

AUDIO OPERATION PRECAUTIONS

Cassette player

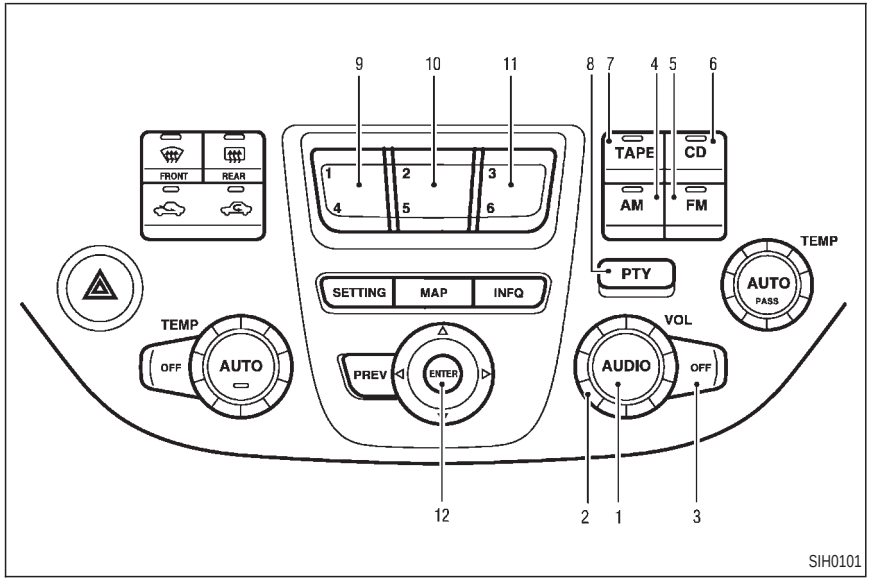
- **To maintain good quality sound, INFINITI recommends using cassette tapes of 60 minutes or shorter in length.**
- **Cassette tapes should be removed from the player when not in use. Store cassettes in their protective cases and away from direct sunlight, heat, dust, moisture and magnetic sources.**
- **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



- Only use high quality 4.7 inches (12 cm) round discs that have the "COMPACT disc DIGITAL AUDIO" logo on the disc or packaging.
- 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 compartment temperature is extremely high. Decrease the temperature before use.
- 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.
- Do not use the following CDs as they may cause the CD player to malfunction.
  - 8 cm (3.1 in) discs with an adapter
  - Recordable compact discs (CD-R)
  - Rewritable compact discs (CD-RW)
  - CDs that are not round
  - CDs with a paper label
  - CDs that are warped, scratched, or have abnormal edges

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



1. "**AUDIO**" on button
2. Volume control knob
3. "**OFF**" audio off button
4. "**AM**" band select button
5. "**FM**" FM1, FM2 band select button
6. "**CD**" compact disc play button
7. "**TAPE**" tape play button
8. "**PTY**" program type button
9. Audio control buttons "1", "4"
10. Audio control buttons "2", "5"
11. Audio control buttons "3", "6"
12. JOYSTICK and "**ENTER**" push button

Audio main operation

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 combined use of the Dolby B NR (Noise Reduction) system. The auto loudness circuit enhances the low frequency 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. When no CD or tape is loaded, the radio will come on. 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 on earlier in this section.

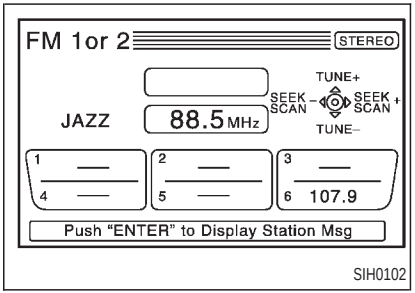
Audio display

"FM" button or "AM" button:

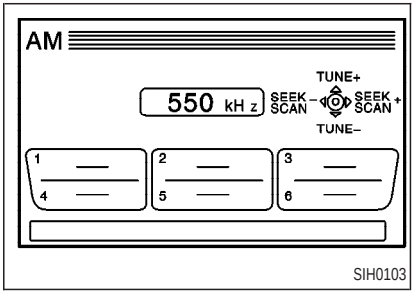
When the "**FM**" or "**AM**" button is pushed, the following display will appear on the screen, and play FM1/FM2 or AM.

When the "**ENTER**" button is pushed in the radio text screen while Push & Hold "**ENTER**" to Update Station Msg is displayed, messages will be updated to new information.

(FM)



(AM)



" ◀◆▶ " — Use the joystick

Up or down: Tuning ⊕ or ⊖

Right or left (for less than 1.5 seconds): Seek ⊕ or ⊖

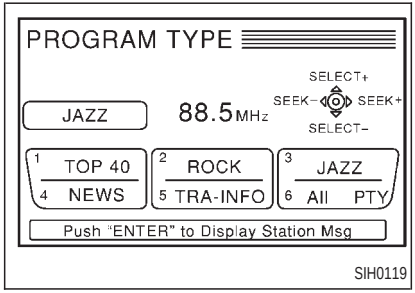
Right or left (for more than 1.5 seconds): Scan ⊕ or ⊖

" 1 " to " 6 " Memory stations

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

"PTY" program type button:

When the "**PTY**" button is pushed during FM mode, the following display will appear.



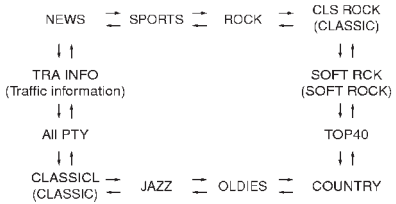
The PTY name can be selected as follows and the radio goes into the PTY interruption standby mode and the PTY name or frequency is displayed.

" ◀◆▶ " — Use the joystick to select PTY station:

Up or down: Select the PTY name.

Right or left: Seek the desired PTY station.

"**PTY**" station names



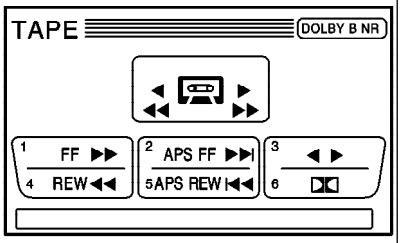
" 1 " to " 6 ": memory PTY stations

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

"TAPE" button:

If the tape is inserted into the tape player then when the "**TAPE**" button is pushed, the following display will appear and the tape will play.

The following display will also appear when a tape is inserted into the tape player.



SIH0105

Audio control button

"1", "4"— "**FF**" (fast forward), "**REW**" (rewind) key

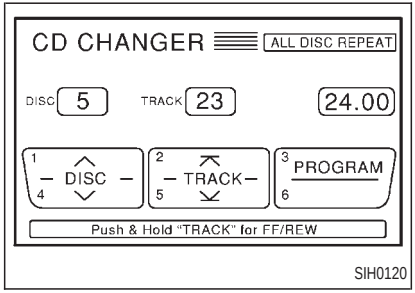
"2", "5"— "**APS FF**" (automatic program search (APS) FF), "**APS REW**" (APS REW) key

"3"— "◀▶" program key

"6"— "DD" Dolby B NR (Noise Reduction) key

"CD" button:

When the "**CD**" button is pushed, the following display will appear and, if a CD is set into the CD changer, play the CD.



SIH0120

"1", "4"— "∧" (CD disc up), "∨" (CD disc down) key

"2", "5"— Push the "2" or "5" button for less 1.5 seconds.

"⊼" truck up, "⊻" truck down key

"2", "5"— Push the "2" or "5" button for more than 1.5 seconds.

"⊼" fast forward, key

"⊻" rewind key

"3"— "**PROGRAM**" key

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

FM, AM radio operation

"FM" or "AM" band select:

Pushing the "**FM**" or "**AM**" band select button will change the band FM1/FM2 or AM.

When "**FM**", "**AM**" 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 a compact disc or tape is playing when the "**FM**" or "**AM**" band select button is turned to ON, the compact disc or tape 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 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 station control button (1 to 6) until the sound resumes. (For example, in the diagram ch2 is to be memorized. The radio mutes when the select button is pushed.)
3. The indicator ch2 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 stations.

Cassette tape player operation

Turn the ignition key to ACC or ON, and then lightly insert the cassette tape into the tape door. The cassette tape will be automatically 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 cause player damage.

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 be turned 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 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 " DD " 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 manufactured under license from Dolby Laboratories Licensing Corporation. Dolby NR and the double-D symbol " DD " are trademarks of Dolby Laboratories Licensing Corporation.

Metal or chrome tape usage:

The cassette player will be 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 be turned off.

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 be turned off and the compact disc will start to play.

1 4 (" ∧ " , " ∨ " key) Disc up/down:

Use these buttons, to select another CD.

When the " 1 " button is pressed, playing switches to the first track on the next disc. The audio output is muted during this operation, and playing begins automatically.

When the " 2 " button is pressed, 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 pressed, 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 pressed, 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 pressed for over 1.5 seconds, the sound is attenuated and the sound is playing at high speed in the forward (or reverse) direction until the button is released.

3 ("PROGRAM" key) program:

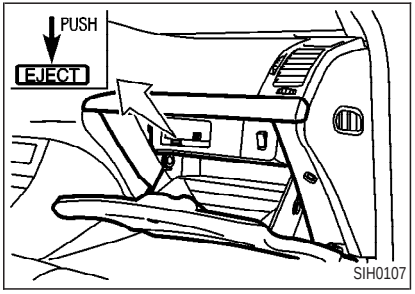
Press the " 3 " button to change the playing mode condition as follows (track repeat, disc repeat, disc random and magazine random) while the display shows the present mode condition for less than 3 seconds.

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

Compact disc (CD) autochanger operation (if so equipped)

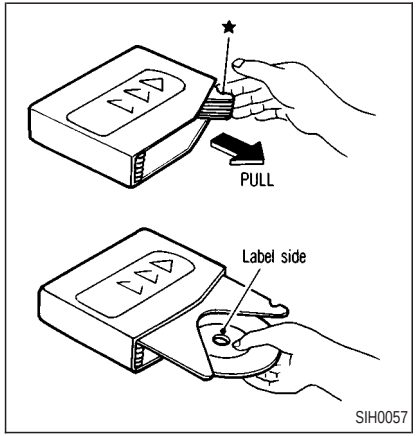
CD magazine:

Insert the CD magazine into the changer with the label side facing up.



Insert the CD magazine into the changer, as illustrated. Close the sliding lid of the CD autochanger.

When ejecting the CD magazine, press the "**EJECT**" button located inside the CD autochanger.



1. Disc loading

- Pull the disc holder from the magazine and turn over the magazine.
  Insert the CD with the label side facing up then push the disc holder in the magazine.

2. Disc removal

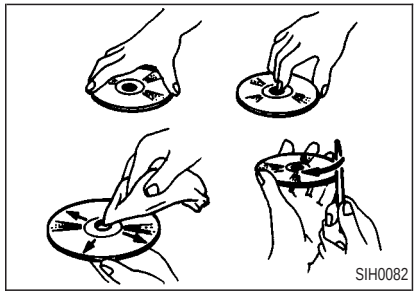
- Pull the * marked area with your fingers.
- Use your fingertips to grasp the certain part of the disc and remove the disc.

CAUTION

Do not touch the playing surface of the disc.

Do not use 8 cm discs. They may cause player damage even if using with the optional adapter.

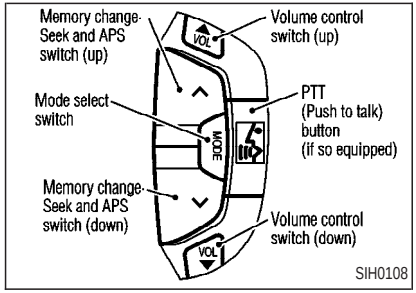
CD CARE AND CLEANING



- 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.

STEERING WHEEL SWITCH FOR AUDIO CONTROL



"MODE" select switch

Push the mode select switch to change the mode in the sequence of AM, FM1, FM2, 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 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, press the switch you pushed for more than 1.5 seconds again.

AUDIO REAR CONTROL SWITCH (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, 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 " ∧ " (front) 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 " ⇕ " 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, press 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 Multiport Fuel Injection system and other electronic parts.

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 as possible away from the Engine Control Unit.***
- ***Keep the antenna wire more than 8 in (20 cm) away from the Multiport Fuel Injection 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 your INFINITI retailer.***

VEHICLE INFORMATION

The warning light section is located in the meter panel. When a warning light illuminates or flashes on and off, the malfunction, remedial measures and maintenance information concerning the related system appear on the display screen for taking corrective action. The

display screen also shows information concerning driving convenience.

- The information shown on the screen should be a guide to determine the condition of the vehicle.
- For safety reason, some of the warnings do not appear on the display screen while the vehicle is being driven.

WARNING INDICATOR

If a problem occurs when starting the engine or if a warning light in the meter cluster illuminates or flashes on and off during vehicle operation, the malfunction and remedial measures appear on the display screen. In this case, immediately take corrective action.

The warning indicator section is designed as a supplementary warning function inside the meter cluster. Also, check the condition of the meter, gauge or control, which corresponds with the warning light.

A total of 15 warning lights illuminate for the following conditions:

- Malfunction (Engine)
- Engine oil pressure
- Supplemental air bag
- Low brake fluid
- Overheating
- Charge
- Low washer fluid
- Low fuel
- Parking brake
- Door open
- Anti-lock brake
- Vehicle dynamic control
- Cruise control
- Automatic transmission oil temperature
- Tire pressure

The display screen showing anything other than a warning can be replaced by a warning screen by simply pressing the "**INFO**" button.

If the warning light in the instrument panel is ON or blinks, have it checked by your INFINITI retailer as soon as possible.

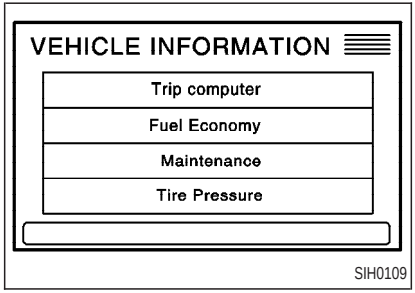
- If there are multiple problems, the warning light corresponding with the latest problem illuminates.
- The fuel level warning is displayed on the screen slightly after the warning light illuminates on the meter panel.
- The parking brake drag warning light illuminates after the vehicle has been driven for a while.
- The door ajar and parking brake drag warning lights sometimes do not illumi-

nate during low-speed operation.

- When battery voltage drops below specifications, multiple warning lights can sometimes illuminate. In this case, continue to drive the vehicle for a while, and check if some of the warning lights go out. If any warning light still remains illuminated, the corresponding system has a malfunction. All other systems are functioning properly.
- If you select the "Detailed Information" key when it is displayed, detailed information will be shown.
- The detailed information cannot be shown when the vehicle is moving. Stop the vehicle in a safe place to see the information.

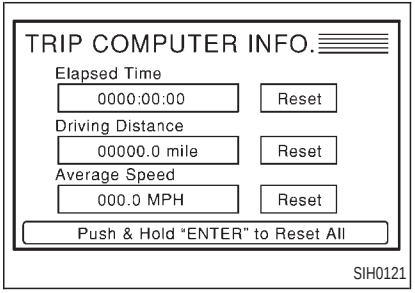
VEHICLE INFORMATION DISPLAY

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 setting, push the "**PREV**" button to return to the previous screen.

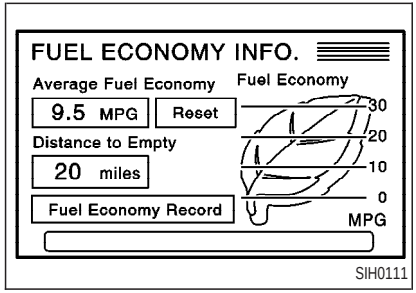
TRIP COMPUTER INFORMATION



Elapsed Time, Driving Distance and Average Speed will be displayed.

To reset, push the "**Reset**" key with the "**ENTER**" button immediately before driving the vehicle.

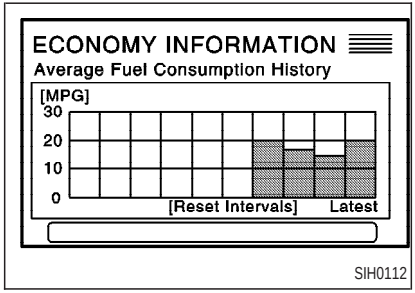
FUEL ECONOMY INFORMATION



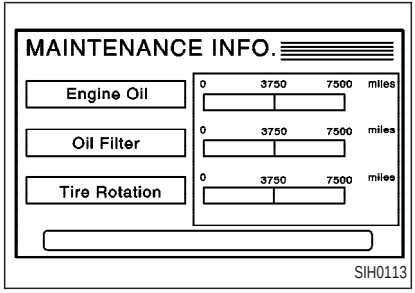
Average fuel economy and distance to empty will be displayed for reference.

To reset the Average Fuel Economy, push the "**Reset**" key with the "**ENTER**" button.

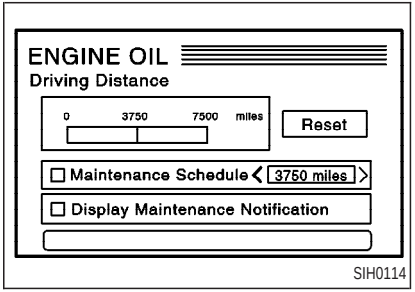
If the "**Fuel Economy Record**" key is pushed with the "**ENTER**" button, the average fuel consumption history will be displayed in graph along with the average for the previous Reset-to-Reset period.



MAINTENANCE INFORMATION



1. To set the maintenance information for the Engine Oil, Oil Filter or Tire Rotation, choose an item using the joystick and push the "**ENTER**" button.
   The following example shows how to set the engine oil change interval. Use the same steps to set the other maintenance information.



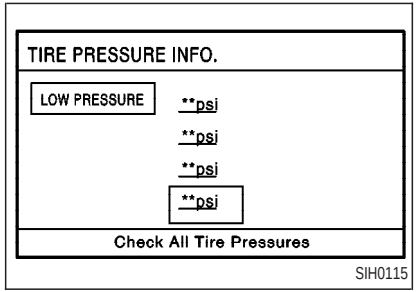
2. Reset the driving distance to the new maintenance schedule.
3. Set the distance of the maintenance schedule. To determine the maintenance interval, refer to "Periodic maintenance sched-

ules" in the "9. Maintenance" section of this manual.

4. To display the MAINTENANCE INFORMATION, automatically when setting trip distance is reached, select the "**Display Maintenance Notification**" key and push the "**ENTER**" button.
5. To turn 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.

TIRE PRESSURE INFORMATION



Pressure indication in ** psi on the screen indicates that the pressure is being measured. After a few driving trips, the 4-wheel pressures will be displayed.

The order of tire pressure figures displayed on the screen does not correspond with the actual order of the tire position.

In case of low tire pressure, the low tire pressure warning light will come on and/or a warning is displayed on the screen:

LOW PRESSURE — reduced tire air pressure
FLAT TIRE — very 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.
- ***Contact your INFINITI retailer as soon as possible, if your vehicle's tire pressure information display indicates LOW PRESSURE, FLAT***

TIRE or system malfunction.

- ***When a spare tire is mounted or a wheel is replaced, the pressure will not be indicated (** psi will be indicated) and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as possible for wheel replacement and/or system resetting.***

VOICE-ACTIVATED CONTROL SYSTEM (VACS)

The VACS (Voice-Activated Control 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 PTT (Push to talk) button 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.

FEATURE

The VACS 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”)

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 pressed before initialization is complete, the message center display will show “VOICE NOT READY”.

Operating tips

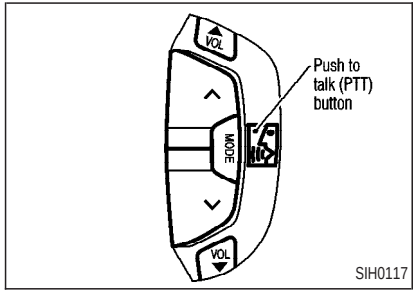
To get the best results from the system, observe the following:

- Close the window before operating the voice-activated control system (VACS). The voice-activated control 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 PTT button.

- After pressing the PTT button, always wait for the beep before speaking.
- Speak in a natural voice without pausing between words.

Giving voice commands

1. Turn the ignition switch to the ON position.
2. Push an instant PTT (Push to talk) button 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 VACS is activated, "LISTENING" will be displayed on the screen.
5. Say 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 PTT button again during feedback. The "COMMAND CANCELED" will be displayed on the screen and finish.**

6. If a command is activated, audio and visual feedback will be provided.
7. To skip the aural feedback for a command, press the PTT button during feedback.

PERSONAL VOCABULARY

The VACS provides 20 personal nametags that can be associated with radio stations. The maximum length for each nametag is 3.75 seconds.

The VACS provides two personal nametags that can be associated 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 Voice command descriptions on the following page.

Radio stations

Frequencies are said as in the following examples.

- "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 clean 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 waveband 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 wavebands — 87.9 to 107.9 MHz in steps of 0.2 MHz, and
  AM wavebands — 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 waveband 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 until the next track.
- [TAPE/CASSETTE] DOLBY ON/OFF
  Selects Dolby on or off.

CD·DJ commands (if so equipped)

- 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 turns.

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 step.
- [AUDIO/RADIO/TAPE/CD (CHANGER/DJ)] [TONE] TREBLE UP/DOWN
  Increases or decreases the treble level by 1 step.

Automatic climate control commands

- [CLIMATE/CLIMATE CONTROL] AUTOMATIC [ON]
  Turns on the climate control system 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 DEFOG
  - 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 VACS. The VACS is capable of storing two different speaker adaptation models in the memory location A/B.

If memory A is available, the VACS will use memory A to store the model. If memory A is in use and memory B is available, the VACS will use memory B to store the model. If both of the memory locations are in use, the VACS 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 driving seat with the engine running, the parking brake on, and the transmission in Park.

3. Press and hold the PTT button 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, press the PTT button.
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 PTT button is pressed 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 VACS instructs the trainer to say the following phrases. (The timing of input phrases is indicated by the VACS.)

- 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

TROUBLE-SHOOTING 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	Remedy
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.
	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.
Displays “NO SPEECH DETECTED”.	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 pressing 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.

5 STARTING AND DRIVING

Precautions when starting and driving 5-2
Exhaust gas (Carbon monoxide)..... 5-2
Three way catalyst 5-3
Low tire pressure warning system 5-4
Avoiding collision and rollover 5-6
Drinking alcohol/drugs and driving..... 5-6
Ignition switch..... 5-7
Automatic transmission 5-7
Key positions..... 5-8
Infiniti Vehicle Immobilizer System 5-8
Before starting the engine..... 5-9
Starting the engine..... 5-9
Driving the vehicle..... 5-10
Automatic transmission 5-10
Parking brake 5-16
Cruise control (ASCD)..... 5-16
Precautions on cruise control..... 5-16
Cruise control operations..... 5-17
Intelligent cruise control system (if so equipped)..... 5-18
Driving with ICC..... 5-21
Intelligent cruise control switch..... 5-24
Intelligent cruise control system display..... 5-24
Operating the ICC system..... 5-25
How to change the set vehicle speed..... 5-28
How to change the set distance to the vehicle ahead 5-28
Approach warning..... 5-30
Automatic cancellation..... 5-30
Warning indicator..... 5-31
How to handle the sensor..... 5-32
Break-in schedule..... 5-32
Increasing fuel economy 5-33
Parking/parking on hills 5-34
Power steering 5-35

Active damper suspension (if so equipped) 5-35
Brake system 5-36
Anti-lock brake system (ABS) 5-36
Vehicle dynamic control system (VDC) ... 5-38
Cold weather driving 5-39
Freeing a frozen door lock 5-39
Anti-freeze 5-39
Battery 5-39
Tire equipment 5-40
Special winter equipment 5-40
Driving on snow or ice 5-41
Engine block heater (if so equipped) ... 5-41

PRECAUTIONS WHEN STARTING AND DRIVING

WARNING

- *Do not leave children, impaired adults, or pets alone in your vehicle. 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 switch to off and the fan control at 4 (high) to circulate the air.*
     Be sure the rear seat armrest and tray are closed.
- *If the electrical wiring or other*

cable connections must be routed 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 or other equipment is added for recreational or other usage, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle. (Some recreational vehicle appliances such as stoves, 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 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 authorized INFINITI retailer.***
- ***Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three way catalyst.***
- ***Do not race the engine while warming it up.***

LOW TIRE PRESSURE WARNING SYSTEM

This vehicle is equipped with the low tire pressure warning system, which displays tire pressure of all wheels (except the spare tire) on the monitor screen by sending a signal from a sensor that is installed in each wheel.

The low tire pressure warning system will activate only when the vehicle is driven at speeds above 20 MPH (32 km/h). Also, this system may not detect a sudden drop in tire pressure (e.g. a flat tire by catching something while driving).

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.) See “Vehicle information” in the “4. Monitor, climate, audio and voice-activated control systems” section for tire pressure monitor.

LOW PRESSURE warning

If the vehicle is being driven with very low tire pressure (lower than 26 psi, 180 kPa), the LOW PRESSURE warning message will be displayed on the monitor screen, and the low tire pressure warning light flashes.

FLAT TIRE warning

If the vehicle is being driven with a flat tire or extremely low tire pressure (lower than 10 psi, 70 kPa), the FLAT TIRE warning message will be displayed on the monitor screen. The low tire pressure warning light comes on, and the chime sounds for about 10 seconds.

WARNING

- *If the low tire pressure warning light flashes or LOW PRESSURE 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 tire pressure for all four wheels and adjust the pressure to the COLD tire pressure shown on the tire placard. 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. 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 and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.*
- *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 low tire pressure warning system will not function properly.

FCC Notice:

Changes or modifications not expressly approved by the manufacturer 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.

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 the 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 differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix!

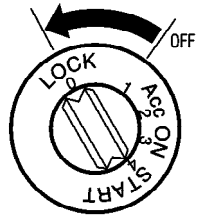
And that's true for drugs too (over the counter, prescription, and illegal drugs). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

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 and/or personal injury.

AUTOMATIC TRANSMISSION



SIS0061

The switch includes an anti-theft steering lock device.

The key can only be removed when the ignition switch is in this 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.**

To lock the steering wheel, remove the key. 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 “Pre-driving 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 removed 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.

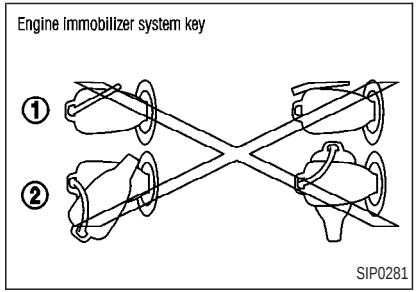
START (4)

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 key fob in the following condition.



① Do not allow metal to contact electronic ignition key.

② Do not allow a device equipped with a transponder to contact 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, e.g., 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 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 or hot weather, de-

press the accelerator pedal and hold it to help start the engine.

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. Drive at moderate speed for a short distance first, especially in cold weather.

DRIVING THE VEHICLE

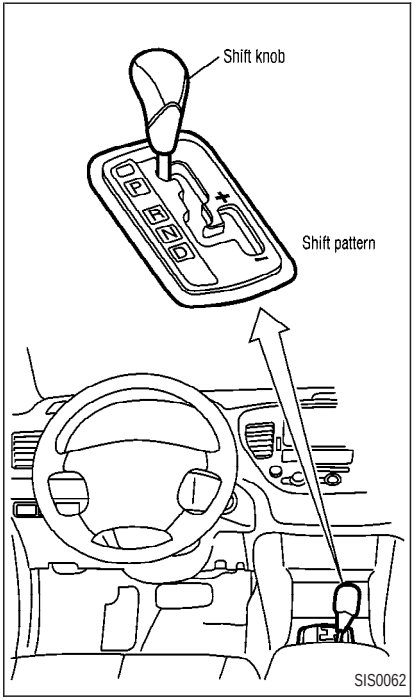
AUTOMATIC TRANSMISSION

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 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.

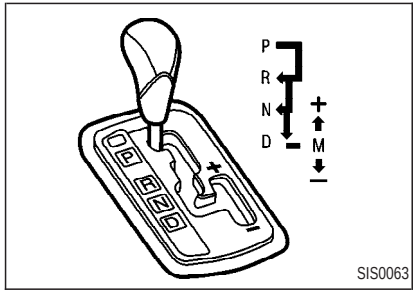
WARNING

- ***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 vehicle is moving. This 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.

Shifting



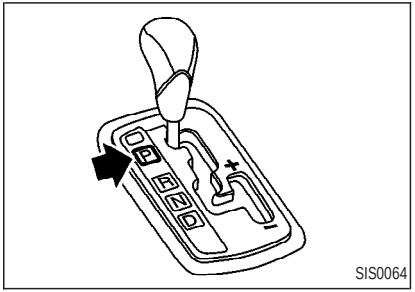
After starting the engine, fully depress the brake pedal and shift the selector lever from P (Park) to R (Reverse), D (Drive), M (Manual mode) or any of the desired shift positions.

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 P (Park) from N (Neutral) or any D (Drive) position. The selector lever can be moved from R (Reverse) to P (Park) with the key in the OFF or ACC position. If this occurs, perform the following steps:

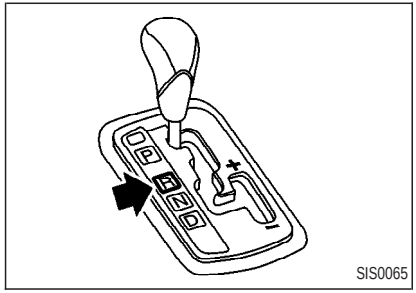
1. Apply the parking brake when the vehicle is stopped.
2. Turn the key to ON.
3. Depress the foot brake pedal if the vehicle is in the N (Neutral) or any D (Drive) position.
4. If necessary, move the selector lever to P (Park) or N (Neutral) to restart the vehicle (P is preferred) or move the selector 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, apply the parking brake first, 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).**

Rear view monitor (if so equipped)

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.***
- ***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.

In the manual shift mode, the shift range is displayed on the position indicator in the meter. When shifting the shift lever to the manual shift gate, the position indicator first displays M4 (Fourth)

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 (Low Gear):

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.

- Remember not to drive at high speeds for extended periods of time in lower than M4 range. This reduces fuel economy.

When shifting up:

Move the selector lever to the + (up) side. (Shifts to higher range.)

When shifting down:

Move the selector lever to the − (down) side. (Shifts to lower range.)

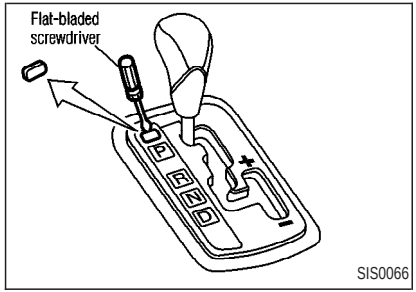
- The transmission will automatically shift the gears between the 1st and the selected range. (For example, if you select the 3rd range, the transmission will shift up or down between the 1st and 3rd gears.)
- Moving the selector lever rapidly to the same side twice will shift the ranges in succession.

When canceling the manual shift mode:

Return the selector lever to the D position to return the transmission to the normal driving mode.

- **In the manual shift mode, the transmission may not shift to the selected gear. This helps maintain driving performance and reduces the chance of vehicle damage or loss of control.**
- **In the manual shift mode, the transmission may shift up automatically to a higher range than selected if the engine speed is too high. When the vehicle speed decreases, the transmission automatically shifts down and shifts to 1st gear before the vehicle comes to a stop.**

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, push the shift lock release button. The selector lever can be moved to N (Neutral). This allows the vehicle to be moved if the battery is discharged.

To push the shift lock release button, follow the procedure as illustrated.

If the lever cannot be moved out of P (Park), have your INFINITI retailer check the automatic transmission system as soon as possible.

WARNING

If the selector lever cannot be moved from the P (Park) position while the engine is running and the brake pedal is depressed, the stop lights may not work. Malfunctioning stop lights could cause an accident injuring yourself and others.

Accelerator downshift — In D position —

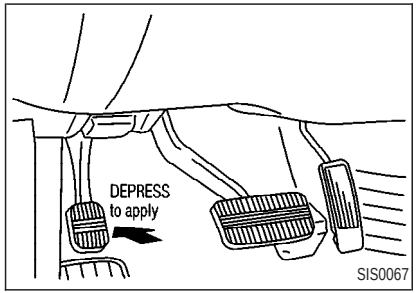
For passing or hill climbing, fully depress the accelerator pedal to the floor. This shifts the transmission down into a lower gear, depending on the vehicle speed.

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 fourth gear.

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 retailer check the transmission and repair if necessary.

PARKING BRAKE



To apply: Fully depress the parking brake pedal.

To release:

1. Firmly apply the foot brake.
2. Depress the parking brake pedal 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.***

CRUISE CONTROL (ASCD)

PRECAUTIONS ON CRUISE CONTROL

- 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 SET indicator light blinks, turn the cruise control main switch off and have the system checked by your INFINITI retailer.
- The SET indicator light may sometimes blink when the cruise control main switch is turned ON while pushing the RES/ACCEL, COAST/SET or CANCEL switch (located on the steering wheel). To properly set the cruise control system, perform the steps below in the order indicated.

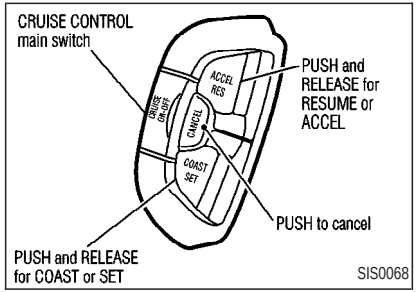
WARNING

Do not use the cruise control when driving under the following conditions:

- ***when it is not possible to keep the vehicle at 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.

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 vehicle to the desired speed, push the COAST/SET 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 RES/ACCEL or COAST/SET 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 COAST/SET switch.
- Push and hold the RES/ACCEL set switch. When the vehicle attains the speed you desire, release the switch.
- Push, then quickly release the RES/ACCEL 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 COAST/SET switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows down to the desired speed.
- Push, then quickly release the COAST/SET 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 RES/ACCEL 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 SYSTEM (if so equipped)

The Intelligent Cruise Control (ICC) system automatically maintains a selected distance from the vehicle in front of you according to that vehicle's speed, or at the set speed, if the road ahead is clear.

With ICC, the driver can maintain the same speed as other vehicles without the constant need to adjust the speed as you would with a normal cruise control system.

The system is intended to enhance the operation of the vehicle when following another vehicle traveling in the same lane and direction. If the distance sensor detects a slower moving vehicle ahead of you, the system will reduce your speed so that you follow the vehicle in front of you 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:

- Stationary and slow moving vehicles
- Pedestrians or objects in the roadway
- Oncoming vehicles in the same lane
- Motorcycles or scooters traveling offset in the travel lane

This system will not automatically brake the vehicle to a stop.

The system will cancel and a warning buzzer will sound if the speed falls below approximately 20 MPH (32 km/h). Also, the system will be disengaged below the 20 MPH (32 km/h) cut-off speed or over the maximum set speed.

The following items are controlled when the selector lever is in the D (Drive) position except in the manual shift mode.

- When there are no vehicles ahead, the vehicle with this system maintains the speed set by the driver. The driver can set the speed between approximately 25 and 90 MPH (40 and 144 km/h).
- When there is a vehicle ahead, the ICC system changes vehicle speed between approximately 20 MPH (32 km/h) and the set speed to match the speed of the vehicle ahead and maintain the driver selected distance between vehicles.
- When the vehicle ahead disappears, the vehicle with this system accelerates up to and maintains the set speed.

WARNING

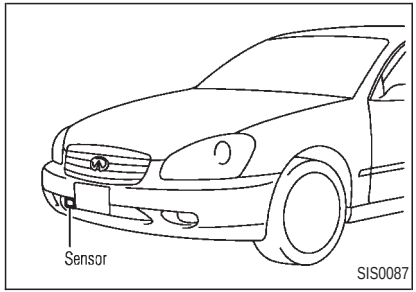
- ***As there is a performance limit to***

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 buzzer 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.*
  - *During bad weather (rain, fog, snow, etc.)*
    (When the windshield wiper is operated at the low speed (LO), high speed (HI) positions or the fastest position of intermittent operation, the Intelligent Cruise Control system is automatically canceled.)
  - *When strong light (for example, at sunrise or sunset) is directly to the front of the vehicle.*
  - *When rain, snow or dirt adhere to the system sensor cover.*
  - *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.***

DRIVING WITH ICC



Always pay attention to the operation of the vehicle and be ready to manually control the proper following distance. The Intelligent Cruise Control system may not be able to maintain the selected distance between vehicles (following distance) or selected vehicle speed under some circumstances.

The ICC system uses a sensor located on the front of the vehicle to detect vehicles ahead. The sensor mainly detects the signals returned from the reflectors on a vehicle ahead. The ICC system may not be able to maintain the selected distance if the sensor cannot detect the reflector from the vehicle ahead when:

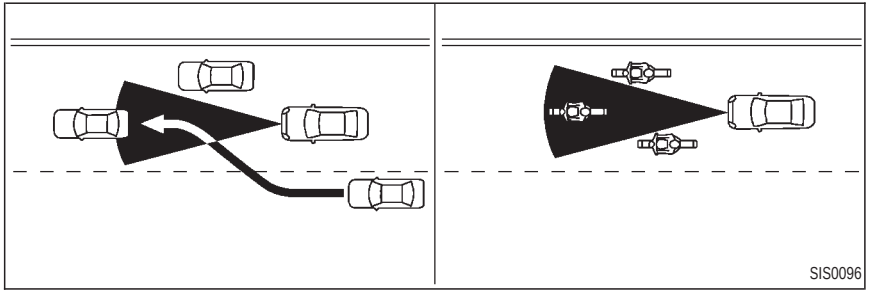
- the reflector is positioned high on the vehicle (trailer, etc.).
- the reflector is covered with dirt.
- snow or road spray from other vehicles reduces the sensor's visibility.
- dense exhaust or other smoke (black smoke) from other vehicles reduces the sensor's visibility.
- if the reflector on the vehicle ahead is missing, damaged or covered.
- if excessively heavy baggage is loaded in the rear seat or the trunk of your vehicle.

The ICC system is designed to automatically detect when the sensor is dirty or obstructed. If dirt is detected on the sensor, the system is automatically canceled. If the sensor is covered with ice, a transparent or translucent vinyl bag, etc., the ICC system may not detect them. If so, the ICC system may not cancel and may not be able to maintain the selected following distance. Clean the sensor regularly.

The ICC system is designed to maintain a selected distance and match the speed of a slower vehicle ahead; the system decelerates the vehicle as necessary. However, the ICC system can only apply up to 25% of the vehicles total braking power. Because of this, the ICC system should only be used when traffic conditions allow vehicle speeds to remain fairly constant or vehicle speeds change gradually. If a vehicle moves into the lane ahead or if a vehicle ahead rapidly

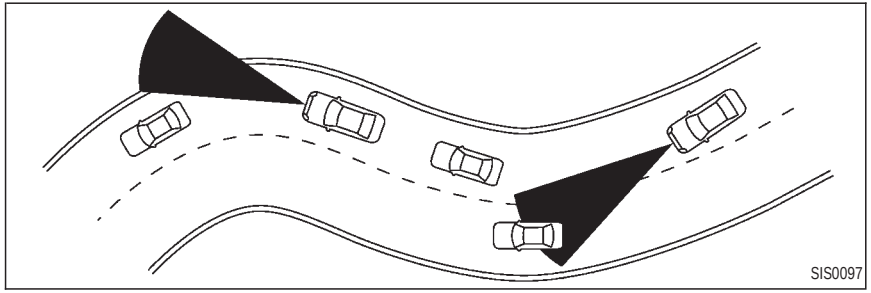
decelerates, the distance between vehicles may become closer because the ICC system cannot decelerate the vehicle quickly enough. If this occurs, the ICC system will sound a warning buzzer and blink the system display to notify the driver to take necessary action. Refer to “Approach warning” later in this section.

The ICC system does not control vehicle speed or warm 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 jams.

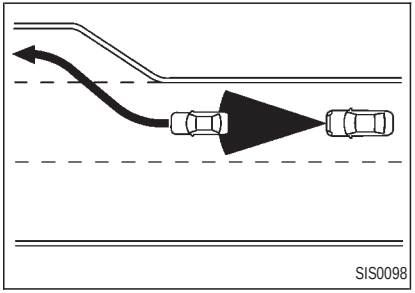


The detection zone of the ICC sensor is limited. A vehicle ahead must be in the detection zone for the ICC to maintain the selected distance and to match the speed of a vehicle ahead.

A vehicle ahead may be outside the detection zone due to its position in the lane. Motorcycles and scooters may not be detected in the lane ahead if they are traveling offset from the centerline of the lane. A vehicle that is changing lanes ahead may be outside the detection zone until it is almost completely in the lane. If this occurs, the ICC system may warn you by blinking the system indicator and sounding the buzzer. The driver may have to manually control the proper following distance.



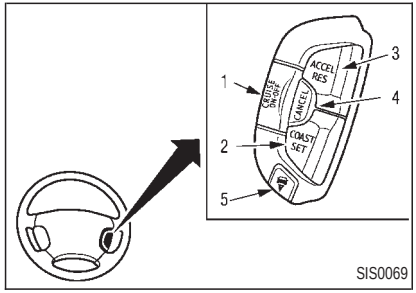
When driving on some roads, the ICC sensor may detect vehicles in a different lane, or may temporarily not detect a vehicle ahead. This may cause the ICC system to decelerate or accelerate the vehicle. These conditions could happen on winding roads, hilly roads, entering or exiting a curve, narrow roads or in road construction areas. Additionally, the detection of vehicles can be affected by the operation of the vehicle (position in a lane) or condition (accident damage). The ICC system indicator and buzzer may warn you unexpectedly.



If you are driving on the freeway at a set speed and come upon a slower vehicle ahead, the ICC will attempt to match that vehicle's speed and maintain a selected following distance. If the vehicle ahead changes lanes or exits the freeway, the ICC system will accelerate the vehicle to match 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 happens, drive without the ICC system.

INTELLIGENT CRUISE CONTROL SWITCH

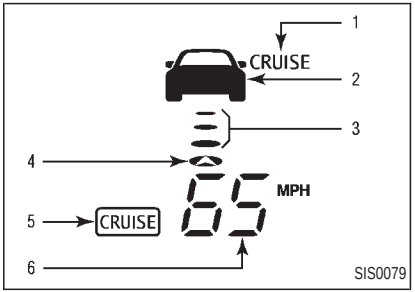


The system is operated by a master ON/OFF switch and four control switches, all mounted on the steering wheel.

1. ON/OFF switch:
   Master switch to activate the system
2. COAST/SET switch:
   Sets desired cruise speed, reduces speed incrementally.
3. ACCELERATE/RESUME switch:
   Resumes set speed or increases speed incrementally.
4. CANCEL switch:
   Deactivates system without erasing set speed.
5. DISTANCE switch:
   Changes the following distance from; Maximum, Intermediate, Minimum.

INTELLIGENT CRUISE CONTROL SYSTEM DISPLAY

The display is located under the speedometer.



1. Intelligent Cruise Control system warning light (Orange)

The light comes on if there is a malfunction in the ICC system.

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. ON/OFF switch indicator light (White)

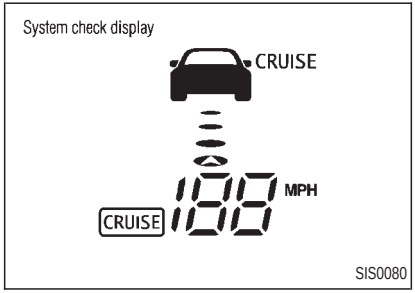
Indicates that the ON/OFF switch is ON.

6. Set vehicle speed indicator

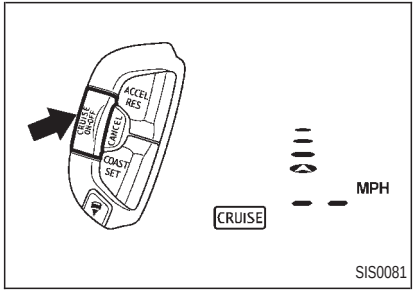
Indicates the set vehicle speed.

For Canadian models, the speed will be indicated by km/h.

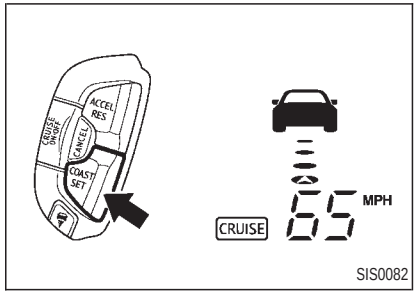
When the key switch is turned ON, the display comes on as follows to check for a burned-out bulb, and it turns off when the engine is started.



OPERATING THE ICC SYSTEM



To turn on the cruise control, push the ON/OFF switch on. The cruise indicator light, set distance indicator and set vehicle speed indicator come on, and they are on a standby state for setting.



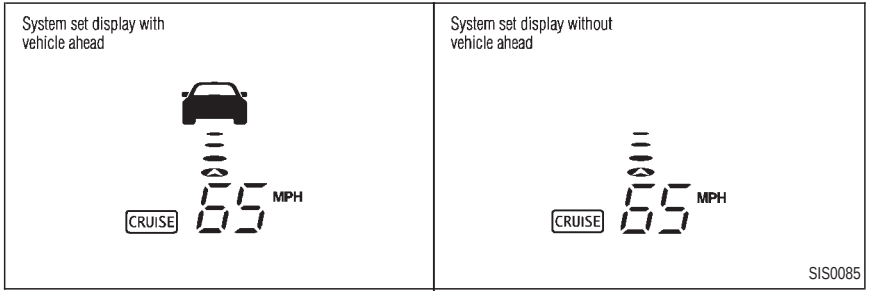
To set cruising speed, accelerate your vehicle to the desired speed, push the COAST/SET switch and release it. (Vehicle ahead detection indicator, set distance indicator and set vehicle speed indicator come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

The Intelligent Cruise Control system cannot

be set under the following conditions even if the COAST/SET switch is pushed.

- When traveling outside the 25 to 90 MPH (40 to 144 km/h) speed range
- When the selector lever is not in the D (Drive) position including the manual shift mode
- When the Vehicle Dynamics Control system (VDC) is switched off
- While the vehicle is being braked by the driver
- When pressing the ACCEL/RES switch without there being a set speed in memory
- When the windshield wipers are switched to High, Low or the fastest position of intermittent operation.
- When the parking brake is applied.

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 or brake pedal, however, to properly accelerate or decelerate your vehicle when acceleration is required for a lane change or when deceleration is required to maintain a safe distance to the vehicle ahead due to its sudden deceleration or if a vehicle cuts in.

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 a 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.

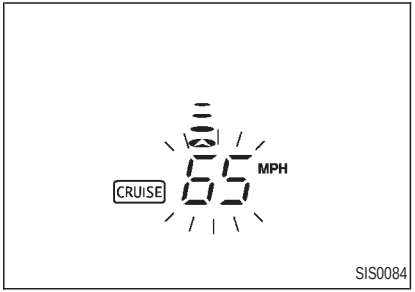
Vehicle ahead not detected:

When a vehicle is not 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 recontrols the distance to the vehicle.

To pass another vehicle, depress the accelerator pedal and steer the vehicle around the vehicle ahead. The set speed indicator will blink and the vehicle detected indicator will turn off when the system is overridden by the driver. When the pedal is released, the vehicle will return to the previously set speed.



Although your vehicle may be at the set vehicle speed based on ICC system control, 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 ON/OFF 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 COAST/SET switch.
- Push and hold the ACCEL/RES switch. The set vehicle speed will increase by approximately 5 MPH (5 km/h for Canada).
- Push, then quickly release the ACCEL/RES 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:

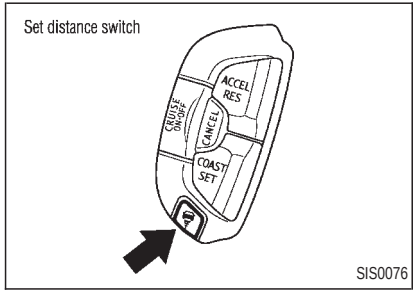
- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SET switch and release it.
- Push and hold the COAST/SET switch. The set vehicle speed will decrease by approximately 5 MPH (5 km/h for Canada).
- Push, then quickly release the COAST/SET switch. Each time you do this, the set speed will decrease by approximately 1 MPH (1 km/h for Canada).

To resume the preset speed, push and release the ACCEL/RES 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 is pressed, the set distance will change to long, medium, short and back to long again in that sequence.



Distance	Display	Approximate distance at 60 MPH (96 km/h) [ft (m)]
Long	CRUISE 60 MPH	195 (60)
Middle	CRUISE 60 MPH	150 (45)
Short	CRUISE 60 MPH	105 (32)

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- The distance to the vehicle ahead will change according to the vehicle speed. The higher the vehicle speed, the longer the distance.
- 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 large deceleration of that vehicle or if another vehicle cuts in, the system warns the driver with the buzzer and ICC system display. Decelerate by depressing the brake pedal to maintain a safe vehicle distance if:

- The buzzer sounds.
- The vehicle ahead detection and set distance indicators blink.

WARNING

Do not use the Intelligent Cruise Control system when traffic conditions cause the buzzer to sound frequently.

The warning buzzer 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 buzzer will not sound when your vehicle approaches vehicles that are parked or moving slowly.

When driving on some roads (with sharp curves, for example), the ICC system may suddenly detect vehicles in another lane. When this occurs, the approach warning buzzer may sound.

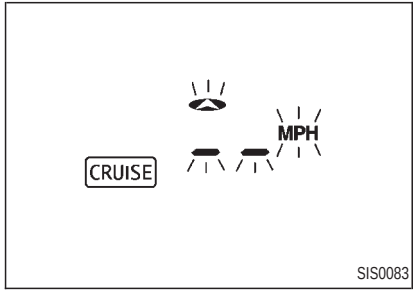
AUTOMATIC CANCELLATION

A buzzer sounds under the following conditions and the control is automatically canceled.

- When the vehicle speed is outside 20 to 90 MPH (32 to 144 km/h)
- When the selector lever is shifted to a position other than D (Drive) including the manual shift mode
- When the wiper is operated at low speed (LO), high speed (HI) or the fastest position of intermittent operation
- When the parking brake is applied
- When the VDC is turned off

WARNING INDICATOR

Condition A



The buzzer sounds and the Intelligent Cruise Control system is canceled automatically in the conditions described below. The ICC system warning light and part of the system display will come on or blink, making it impossible to set.

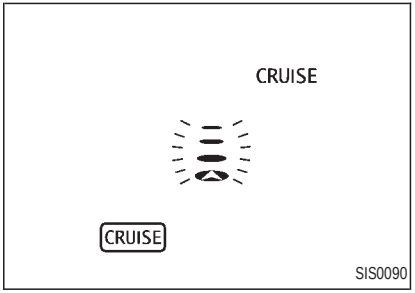
- When the ABS operates
- When the VDC (TCS) operates
  (The Vehicle Dynamic Control system includes the Traction Control System.)
- When a tire slips
- When strong light (sunlight) is directly in front of the vehicle

Action to take

When the conditions listed above are no longer present, turn the system off using the Intelligent Cruise Control ON/OFF Switch. Turn the ICC system back on to use the system.

After the condition where the control is released is remedied, turn the system off with the ON/OFF switch and then perform the settings again.

Conditon B



When the sensor window is dirty, making it impossible to detect a vehicle ahead, the ICC system is automatically canceled.

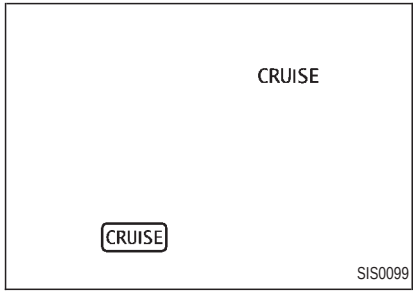
The buzzer sounds and the system warning light (Orange) will come on and the set distance indicators will blink.

Action to take

If the warning light comes on, park the vehicle in a safe place, turn the engine off. Clean the

dirty parts with a soft cloth and then perform the settings again.

Condition C



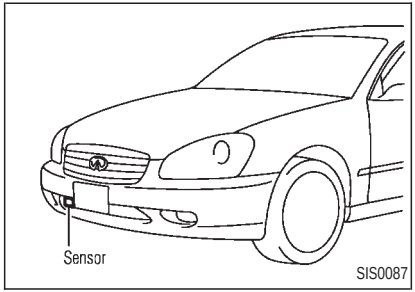
When the ICC system is not operating properly, the buzzer sounds and the system warning light (Orange) will come on.

Action to take

If the warning light comes on, park the vehicle in a safe place. Turn the engine off and then perform the settings 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 authorized INFINITI retailer.

HOW TO HANDLE THE SENSOR



The sensor for the ICC system is located below the front bumper.

To keep the ICC system operating properly, be sure to observe the following:

- Always keep the sensor clean.
  Wipe dirty parts 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 authorized INFINITI retailer.
- Do not attach a sticker (including transparent material) or install an accessory near the sensor. This could cause failure or malfunction.

BREAK-IN SCHEDULE

During the first 1,000 miles (1,600 km), follow these recommendations for the future reliability and economy of your new vehicle.

- Avoid driving for long periods at constant

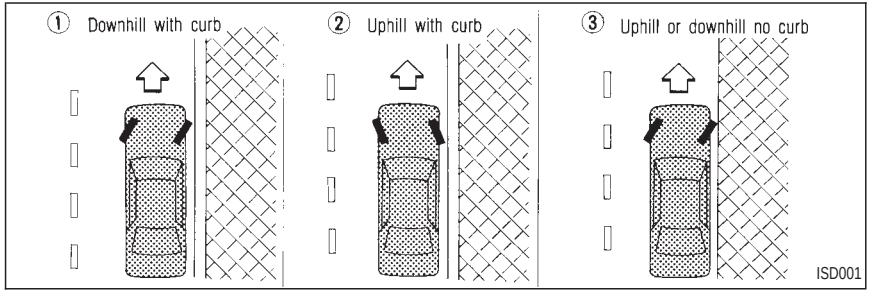
speed, either fast or slow.

- 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.
- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.

PARKING/PARKING ON HILLS



WARNING

- ***Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.***
- ***Never leave the engine running while the vehicle is unattended.***
- ***Never leave children unattended in the vehicle.***

1. Firmly apply the parking brake.
2. Move the selector lever to the P (Park) position.

WARNING

- ***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 automatic transmission selector lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.***

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.

POWER STEERING

The power assisted steering is designed to use 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 authorized INFINITI retailer for service.

BRAKE SYSTEM

The brake system has two separate hydraulic circuits. If one circuit malfunctions, you will still have braking at two wheels.

Vacuum assisted brakes

The brake booster aids braking by using engine vacuum. If the engine stops, you can stop the vehicle by depressing the brake pedal. However, greater foot pressure on the brake pedal will be required to stop the vehicle and the stopping distance will be longer.

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 pressing the brake pedal to heat-up the brakes. Do this until the brakes return to normal. Avoid driving the vehicle at high speeds until the brakes function correctly.

Parking brake bedding

The parking brake shoes must be "bedded down" whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drums 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 retailer.

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear 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.***

ANTI-LOCK BRAKE SYSTEM (ABS)

The anti-lock brake system controls the brakes at each wheel so the wheels will not lock when

braking abruptly or when braking on slippery surfaces. The system detects the rotation speed at each wheel and varies the brake fluid pressure to prevent each wheel from locking. 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 anti-lock brake system will not operate at speeds below 3 to 6 MPH (5 to 10 km/h) to completely stop the vehicle. (The speeds will vary according to road conditions.) When the anti-lock system 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 anti-lock system is working properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

Self-test feature

The anti-lock brake system 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-test 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 anti-lock brake system OFF and turns on the ABS brake warning light in the dashboard. The brake system will then behave normally, but without anti-lock assistance.

If the light comes on during the self-test, or while you are driving, you should take your vehicle to your INFINITI retailer 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 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 yourself 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 on all four wheels.***
- ***When installing a spare tire, make sure it is the proper size and type as specified on the tire placard. See "Vehicle identification" in the "10. Technical and consumer information" section for tire placard location.***

VEHICLE DYNAMIC CONTROL SYSTEM (VDC)

When driving on slippery surfaces or suddenly avoiding obstacles on roads, the vehicle might swerve or slip. With the vehicle dynamic control system, sensors detect these movements and control the braking and engine output to help improve vehicle stability while driving.

- When the vehicle dynamic control system is operating, the slip indicator in the instrument panel blinks.
- When only the traction control system in the vehicle dynamic control system is operating, the slip indicator blinks.
- If the slip indicator blinks, the vehicle is under slippery conditions. Be sure to drive carefully. See "Slip indicator light", and "Vehicle dynamic control off indicator light" in the "Instruments and controls" section.
- Indicator light
  If a malfunction occurs in the system, the SLIP and VDC OFF indicator lights come on in the meter panel.
  As long as these warning lights are on, the traction control function is canceled. The vehicle will behaves like a model without the system.

WARNING

- ***The vehicle dynamic control system is designed to help improve***

driving stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.

- ***If suspension parts such as shock absorbers, struts, springs and bushings are not standard equipment or are extremely deteriorated, the vehicle dynamic control off indicator light may come on.***
- ***When driving on extremely inclined surfaces such as higher banked corners, the vehicle dynamic control system may not operate properly or the vehicle dynamic control off indicator light may come on. Do not drive on these types of roads.***
- ***If the tires other than the recommended ones are used, the vehicle dynamic control system may not operate properly or the vehicle dynamic control off indicator light may come on.***
- ***The vehicle dynamic control system is not a substitute for winter tires or tire chains on a snow covered road.***

COLD WEATHER DRIVING

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply de-icer or glycerin through the key hole. If the lock becomes frozen, heat the key before inserting it into the key hole.

Be careful not to damage the plastic part of the key.

ANTI-FREEZE

When it is anticipated that the temperature will drop below 32°F (0°C), check the anti-freeze to assure proper winter protection. For additional information, see “Engine cooling system” in the “8. 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. Do-it-yourself” section.

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 retailer 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.** 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 snowdrifts.
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 a lot 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 actually 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 retailer.

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

Roadside assistance program 6-2
Flat tire 6-2
Run-flat tires (if so equipped) 6-3
Changing a flat tire 6-4
Jump starting 6-9
Push starting 6-12
If your vehicle overheats 6-12
Towing your vehicle 6-13
Towing recommended by INFINITI 6-14
Vehicle recovery (freeing a stuck vehicle) 6-15

IN CASE OF EMERGENCY

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 Booklet (U.S.) or Warranty & Roadside assistance information booklet (Canada) for details. Both the Warranty 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

This vehicle is equipped with the low tire pressure warning system, which displays tire pressure of all wheels (except the spare tire) on the monitor screen by sending a signal from a sensor that is installed in each wheel. If the vehicle is being driven with a flat tire (lower than 10 psi, 70 kPa) or very low tire pressure (lower than 26 psi, 180 kPa), the low tire pressure warning system will activate and warn you of it by the low tire pressure warning light or a WARNING (FLAT TIRE or LOW PRESSURE) displayed on the screen. This system will activate only when the vehicle is driven at speeds above 20 MPH (32 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 "Low tire pressure warning system" in the "5. Starting and driving" section.

WARNING

- ***If the low tire pressure warning light flashes 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 tire pressure for all four wheels and adjust the pressure to the COLD tire pressure shown on the tire placard. 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. 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 and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.***
- ***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 instructions later in "Changing a flat tire". For additional information, see "Wheels and tires" in the "8. 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 retailer 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

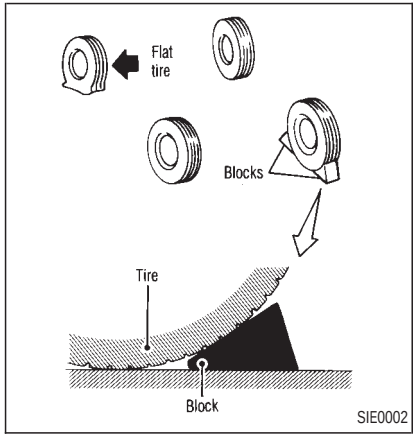
1. Safely move the vehicle off the road and away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the automatic transmission to P (Park).
4. Turn off the engine.
5. Raise the hood to warn other traffic, and to signal professional road 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 that 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.***
- ***When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as pos-***

sible for tire replacement and/or system resetting.

Blocking wheels



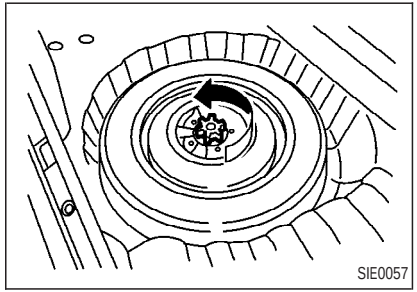
Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from rolling when it is jacked up.

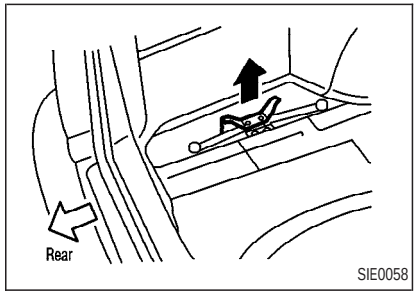
WARNING

Be sure to block the wheel as the vehicle may move and result in personal injury.

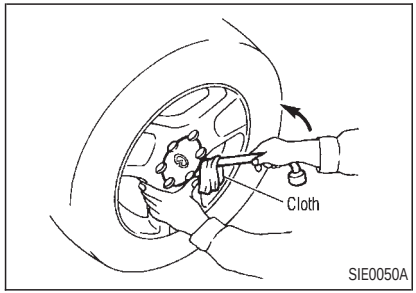
Getting the spare tire and tools

Remove jacking tools and spare tire from the storage area located inside the trunk as illustrated.





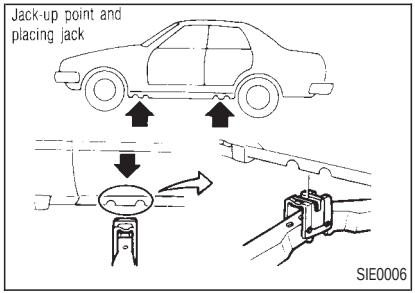
Removing wheel cap



CAUTION

Do not use your hands to pry off wheel caps. Doing so could result in personal injury.

Jacking up the vehicle and removing the damaged tire

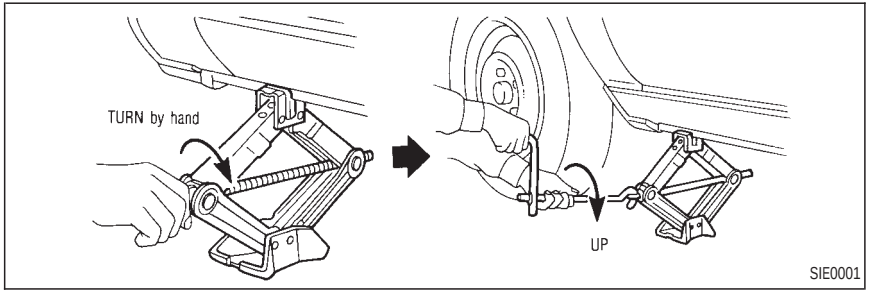


WARNING

- ***Never get under the vehicle while it is supported only by the jack.***
- ***Use only the jack provided with your vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed only for lifting 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 engine while vehicle is on the jack, as it may cause the vehicle to move. This is especially true for vehicles with limited slip differential carriers.***
- ***Do not allow passengers to stay in the vehicle while it is on the jack.***

Carefully read the caution label at-

tached to the jack body and the following instructions.

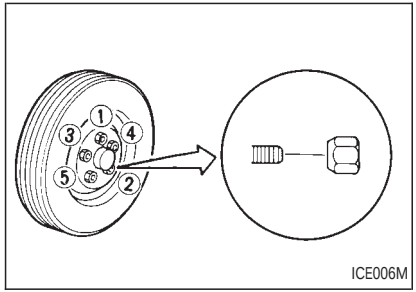


1. Place the jack directly under the jack-up point so that top of the jack contacts the vehicle at the jack-up point. Align the center of both the jack head and the notch at the jack-up point as shown. Also fit the notched portion of the vehicle in the groove of the jack head as shown.

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



1. Clean any mud or dirt from the surface between the wheel and hub.
2. Carefully put the wheel on and tighten the wheel nuts finger tight.
3. With the wheel nut wrench, tighten wheel nuts alternately and evenly until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence as illustrated.

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.***

- **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 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 placard located on the front face of the rear left wheel housing inside the vehicle.

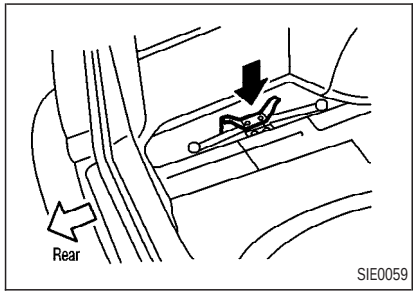
After adjusting tire pressure to the COLD tire pressure, the display of the tire pressure information may show higher pressure than the COLD tire pressure after the vehicle has been driven more than 1 mile (1.6 km). This is because the tire pressurizes as the tire temperature rises. This does not indicate a system malfunction.

WARNING

Retighten the wheel nuts when the

vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).

Stowing the damaged tire and tools



Securely store the damaged tire and jacking equipment in the vehicle.

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 spare tire is designed for emergency use. See "Wheels and tires" in the "8. 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 & Roadside assistance information booklet (Canada).

JUMP STARTING

To start your engine with a booster battery, the instructions and precautions below must be followed.

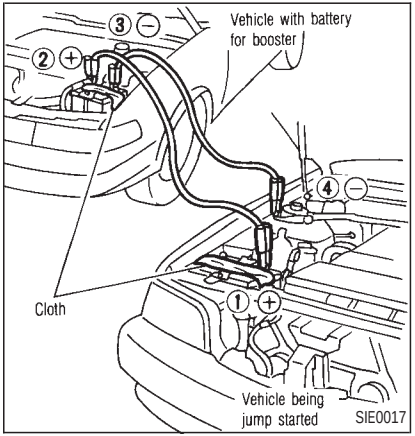
WARNING

- ***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, cloth 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 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 & Roadside assistance information booklet (Canada).



WARNING

Always follow the instructions below. Failure to do so could result in damage to the charging system and cause personal injury.

1. If the booster battery is in another vehicle, position the two vehicles to bring their batteries into close proximity to each other.

   Do not allow the two vehicles to touch.

2. Apply parking brake. Move the selector lever to P (Park). Switch off all unnecessary electrical systems (light, heater, air conditioner, etc.).
3. Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
4. Connect jumper cables in the sequence as illustrated.

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.***

5. Start the engine of the other vehicle and let it run for a few minutes.
6. Keep the engine speed of the other vehicle at about 2,000 rpm, and start your engine 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.

7. After starting your engine, carefully disconnect the negative cable and then the positive cable.
8. Replace the vent caps (if so equipped). Be sure to dispose of the cloth used to cover the vent holes as it may be contaminated with corrosive acid.

PUSH STARTING

CAUTION

- ***Automatic transmission models cannot be push started. This may cause transmission damage.***
- ***Three way catalyst equipped models should not be started by pushing. The three way catalyst may be damaged.***
- ***Never try to start the vehicle by towing it; when the engine starts, the forward surge could cause the vehicle to collide with the tow vehicle.***

If needed, Roadside Assistance is available. Please see your Warranty 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 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 switch. Open all the windows, move the heater or air conditioner temperature control to maximum hot and fan control to high speed.
3. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. Wait until no steam or coolant can be seen before proceeding.
4. Open the engine hood.

WARNING

If steam or water is coming from the engine, stand clear to prevent getting burned.

5. 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 to get caught in, the cooling fan or drive belt.***
- ***The engine cooling fan can start at any time when the coolant temperature is high.***

6. After the engine cools down, check the coolant level in the reservoir tank with the engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired at the nearest INFINITI retailer.

If needed, Roadside Assistance is available. Please see your Warranty Information Booklet or Roadside Assistance I.D. Card for the toll-free number to call (U.S.) or Warranty & Roadside assistance information booklet (Canada).

TOWING YOUR VEHICLE

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from your INFINITI retailer. 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***

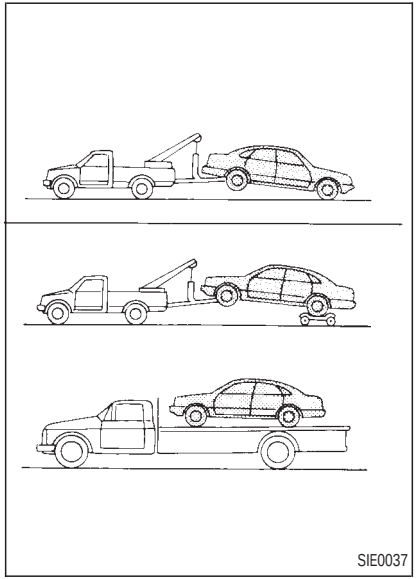
transmission, axles, steering system and power train are in working condition. If any unit is damaged, dollies must be used.

- ***Always attach safety chains before towing.***

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

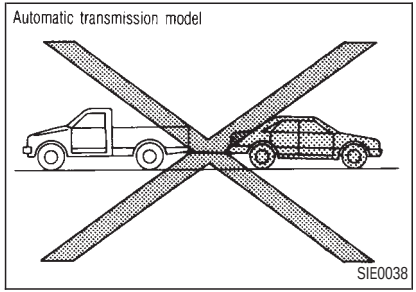
INFINITI recommends that your vehicle be towed with the driving (rear) wheels off the ground or place the vehicle on a flat bed truck as illustrated.



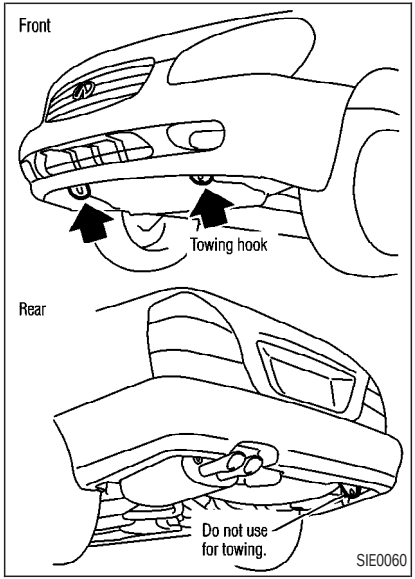
CAUTION

- ***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.



VEHICLE RECOVERY (Freeing a stuck vehicle)



- Use the towing hooks **only** as illustrated, not other parts of the vehicle. Otherwise, the vehicle body will be damaged.
- Use the towing hooks **only** to free a vehicle stuck in sand, snow, mud, etc. **Never** tow the vehicle for a long distance using only the towing hooks.
- The towing hook is under tremendous force when used to free a stuck vehicle. Always pull the cable straight out from the front or rear of the vehicle. **Never** pull on the hook at an angle.
- Stand clear of a stuck vehicle.

WARNING

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.

7 APPEARANCE AND CARE

Cleaning exterior 7-2
Washing 7-2
Waxing 7-2
Removing spots 7-3
Underbody 7-3
Glass 7-3
Aluminum alloy wheels 7-4
Chrome parts 7-4
Cleaning interior 7-4
Floor mats 7-4
Seat belts 7-5
Rear sun shade (if so equipped) 7-5
Corrosion protection 7-6
Most common factors contributing to vehicle corrosion 7-6
Environmental factors influence the rate of corrosion 7-6
To protect your vehicle from corrosion 7-6

APPEARANCE AND CARE

CLEANING EXTERIOR

In order to maintain the appearance of your vehicle, it is important to take proper care of it.

In the following cases, please wash your vehicle as soon as possible to protect the paint surface.

- 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 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 that the paint surface is not scratched or damaged.***

WAXING

If you wish to wax your vehicle, only use a wax specified for use over clear coats, such as

Nissan Liquid or Spray Wax, because your INFINITI has been finished with the finest paint and hard clear coats. Your INFINITI retailer can assist you in choosing the proper product.

- Wax your vehicle only after a thorough washing. Follow the instructions supplied with the wax.
- Do not use a wax containing any abrasives, cutting compounds or cleaners that may damage the vehicle finish.
- If the surface does not polish easily, use a road tar remover and wax again.

Machine compound or aggressive polishing on a base coat/clear coat paint finish may dull the finish or leave swirl marks.

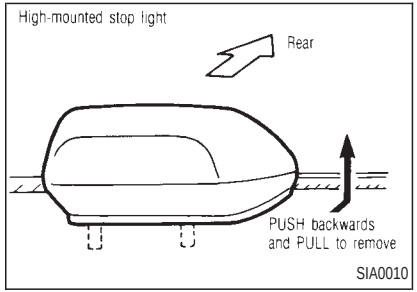
REMOVING SPOTS

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 retailer 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.

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 window, 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.

CLEANING INTERIOR

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft 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. 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.

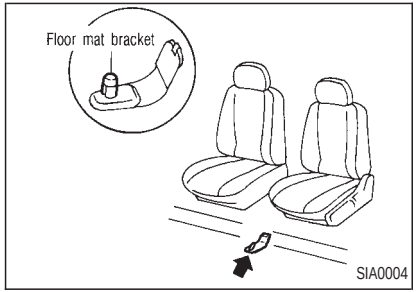
CAUTION

- ***Never use benzine, thinner, or any similar material.***
- ***Leather seats should be regularly coated with a leather wax like saddle soap. Never use car wax.***
- ***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 incorporated 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 benzine, 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.

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.***

- ***See your INFINITI retailer for assistance.***

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 retailer.

8 DO-IT-YOURSELF

Maintenance precautions 8-2
Engine compartment check locations 8-4
Engine cooling system 8-5
Checking engine coolant level 8-5
Changing engine coolant 8-6
Engine oil 8-7
Checking engine oil level 8-7
Changing engine oil 8-8
Changing engine oil filter 8-9
Automatic transmission fluid 8-10
Power steering fluid 8-10
Cooling fan fluid 8-11
Brake fluid 8-11
Window washer fluid 8-12
Battery 8-12
Jump starting 8-14
Drive belts 8-14
Spark plugs 8-15
Replacing spark plugs 8-15
Air cleaner 8-16
Windshield wiper blades 8-16
Cleaning 8-16
Replacing 8-17
Parking brake and brake pedal 8-18
Checking parking brake 8-18
Checking brake pedal 8-18
Brake booster 8-19
Fuses 8-20
Engine compartment 8-20
Passenger compartment 8-21
Electronic key battery replacement 8-21
Lights 8-23
Headlights 8-24
Exterior and interior lights 8-25
Wheels and tires 8-29
Tire pressure 8-29
Types of tires 8-31
Tire chains 8-33
Changing wheels and tires 8-34

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. For automatic transmission models, move the 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 and the battery.*
- *The fuel filter or fuel lines should be serviced by an INFINITI retailer because the fuel lines are under high pressure even when the engine is off.*

CAUTION

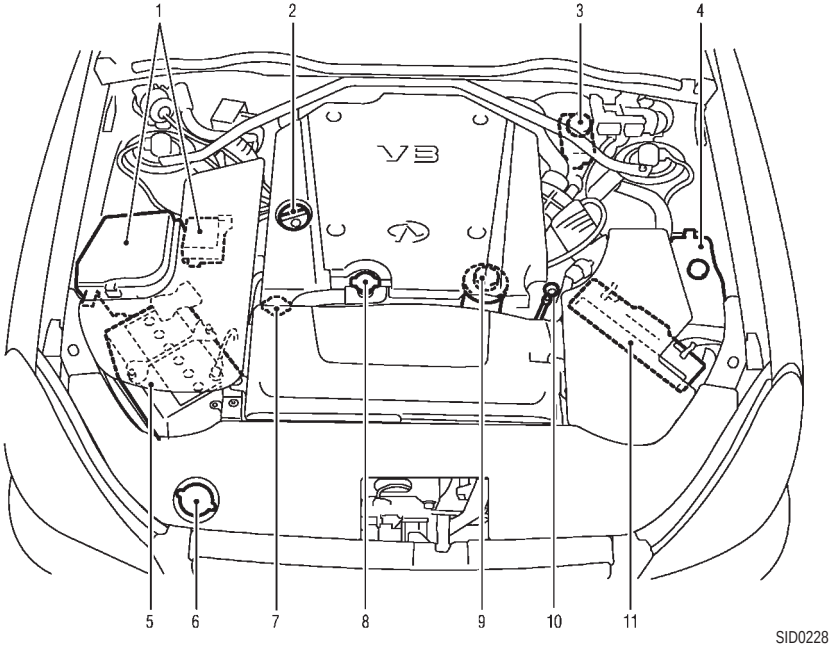
- *Do not work under the hood while the engine is hot. Turn off the engine and wait until it cools down.*

- ***Never connect or disconnect the battery or any transistorized component connector while the ignition key is on.***
- ***Never leave the engine or the automatic transmission related component harness disconnected while the ignition key is on.***
- ***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. Do-it-yourself" section gives instructions regarding only those items which are relatively easy for most owners to perform. A genuine INFINITI Service Manual is also available. See "Owner's Manual/Service Manual order information" in the "10. 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 retailer.**

ENGINE COMPARTMENT CHECK LOCATIONS



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: Power steering fluid reservoir
8: Radiator filler cap
9: Cooling fan fluid reservoir
10: Engine oil dipstick
11: Air cleaner

ENGINE COOLING SYSTEM

The engine cooling system is filled at the factory with a high-quality, year-round, anti-freeze coolant solution. The anti-freeze solution contains rust and corrosion inhibitors, therefore additional cooling system additives are not necessary.

CAUTION

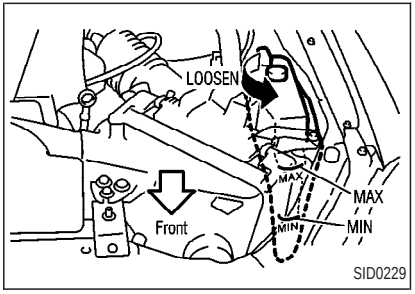
When adding or replacing coolant, be sure to use only a genuine NISSAN anti-freeze coolant or equivalent with the proper mixture ratio of 50% anti-freeze and 50% demineralized water/distilled water. The use of other types of coolant solutions may damage your engine cooling system.

Outside temperature down to		Anti-freeze	Demineralized water or distilled water
°C	°F		
−35	−30	50%	50%

WARNING

- ***Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator. Wait until the engine and radiator cool down. See "If your vehicle overheats" in the "6. In case of emergency" section.***
- ***The radiator is equipped with a pressure cap. To prevent engine damage, use only a genuine NISSAN radiator cap.***

CHECKING ENGINE COOLANT LEVEL

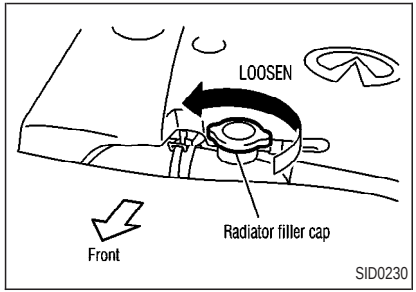


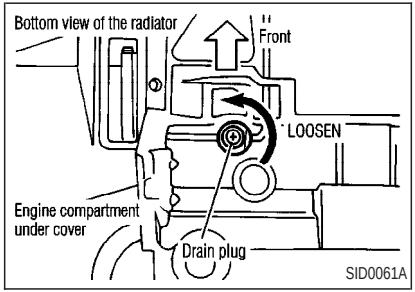
Check the coolant level in the reservoir tank when the engine is cold. If the coolant level is below MIN, add coolant up to the MAX level. If the reservoir tank is empty, check the coolant level in the radiator **when the engine is cold.** If there is insufficient coolant in the radiator, fill the radiator with coolant up to the filler opening and also add it to the reservoir tank up to the MAX level.

If the cooling system requires coolant

frequently, have it checked by your INFINITI retailer.

CHANGING ENGINE COOLANT





- Major cooling system repairs should be performed by your INFINITI retailer. The service procedures can be found in the appropriate INFINITI Service Manual.
- Improper servicing can result in reduced heater performance and engine overheating.

WARNING

- ***To avoid the danger of being scalded, never change the coolant when the engine is hot.***
- ***Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.***
- ***Avoid direct skin contact with used coolant. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as possible.***
- ***Keep coolant out of reach of children and pets.***

When changing engine coolant, be sure the ignition switch is off.

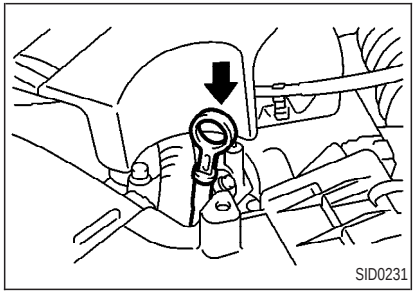
1. Open radiator drain plug at the bottom of radiator, and remove radiator filler cap.

- **Be careful not to allow coolant to contact drive belts.**
- **Waste coolant must be disposed of properly. Check your local regulations.**

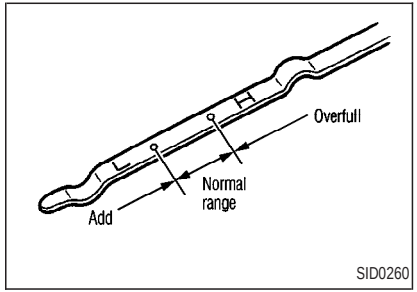
2. Close the radiator drain plug securely after the coolant is drained.
3. Fill the radiator slowly with the proper mixture of anti-freeze solution and demineralized water/distilled water. Fill the reservoir tank up to the MAX level. Then install the radiator filler cap.
4. Start the engine and warm 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.

ENGINE OIL

CHECKING ENGINE OIL LEVEL



1. Park the vehicle on a level surface and apply parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn off the engine. **Wait more than 15 minutes for the oil to drain back into the oil pan.**



4. Remove the dipstick and wipe it clean. Reinsert it all the way, 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. If the oil level is below the L mark, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill.**

- The oil level on the dipstick may look different from the upper face and the lower face because of its inclination. Check oil level on the upper face which has a lower apparent oil level.

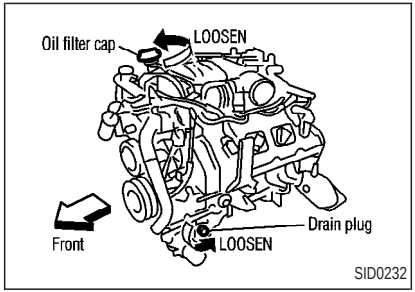
6. Recheck oil level with dipstick.

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 with insufficient amount of oil can damage the engine, and such damage is not covered by warranty.

CHANGING ENGINE OIL



1. Park the vehicle on a level surface and apply the parking brake.
2. Run the engine until it reaches operating temperature.
3. Turn the engine off and wait more than 15 minutes.
4. Place a large drain pan under the drain plug.
5. Remove the oil filler cap.
6. Remove the drain plug with a wrench 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 is 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 "10. 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.

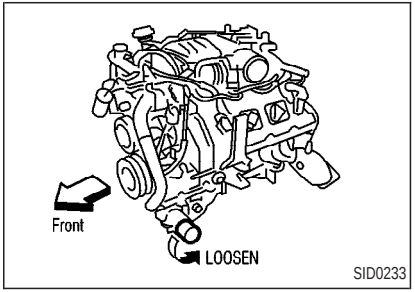
10. Turn the engine off and wait more than 15 minutes. Check the oil level. Add engine oil if necessary.

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.
3. Loosen the oil filter with an oil filter wrench. Remove the oil filter by turning it by hand.

CAUTION

Be careful not to burn yourself. The engine oil will be hot.

4. Wipe the engine oil filter mounting surface with a clean rag.

   Be sure to remove any old rubber gasket remaining on the mounting surface of the engine.

5. Coat the rubber gasket on the new filter with clean engine oil.

6. 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)

7. Start the engine and check for leakage around the oil filter. Correct as required.

8. Turn the engine off and wait more than 15 minutes. Check the oil level. Add engine oil if necessary.

AUTOMATIC TRANSMISSION FLUID

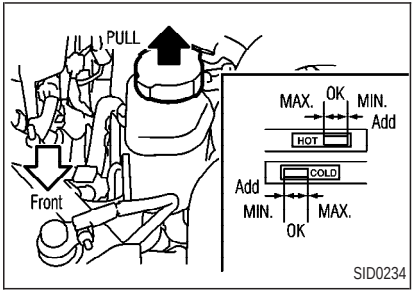
When checking or replacement is required, we recommend your INFINITI retailer for servicing.

CAUTION

- ***Use only Nissan Genuine ATF Matic Fluid J. Do not mix with other fluids.***
- ***Using automatic transmission fluid other than Nissan Genuine ATF Matic Fluid J 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



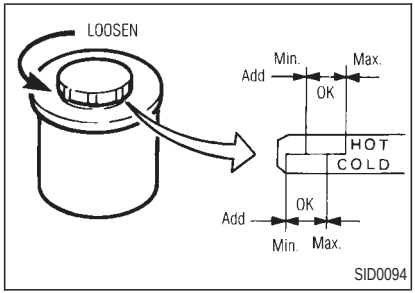
Check the fluid level in the reservoir tank.

The fluid level should be checked using the HOT range on the dipstick at fluid temperature of 122 to 176°F (50 to 80°C) or using the COLD range on the dipstick at fluid temperature of 32 to 86°F (0 to 30°C).

CAUTION

- ***Do not overfill.***
- ***Recommended fluid is type Genuine Nissan PSF-II or equivalent.***

COOLING FAN FLUID

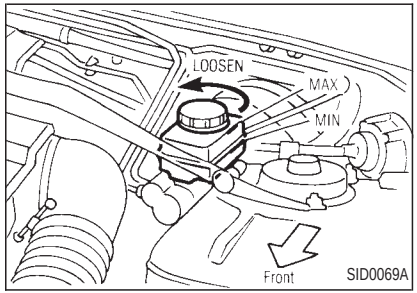


The fluid level should be checked using the HOT range on the dipstick at fluid temperature of 122 to 176°F (50 to 80°C) or using the COLD range on the dipstick at fluid temperature of 32 to 86°F (0 to 30°C).

CAUTION

- ***Do not overfill.***
- ***Recommended fluid is type Genuine Nissan PSF-II or equivalent.***

BRAKE FLUID



Check the fluid level in the reservoir. If the fluid is below the MIN line or the brake warning light comes on, add **DOT 3** fluid up to the MAX line. If fluid must be added frequently, the system should be checked by your INFINITI retailer.

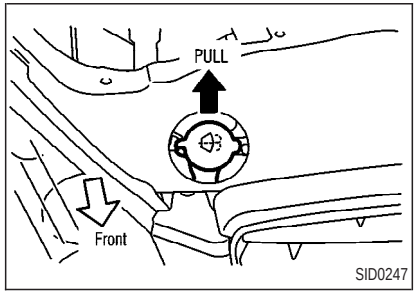
WARNING

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 painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surfaces with water.

WINDOW WASHER FLUID



Add fluid when the low washer fluid warning light comes on. Add a washer solvent to the water for better cleaning. In the winter season, add a windshield washer anti-freeze. Follow the manufacturer's instructions for the mixture ratio.

WARNING

Anti-freeze 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 windshield washer solution. This may result in damage to the paint.

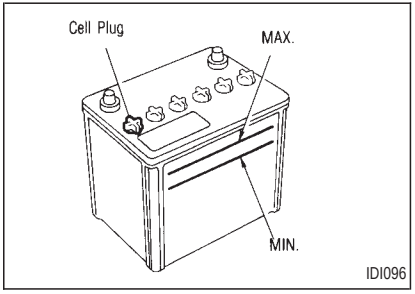
BATTERY

- 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.

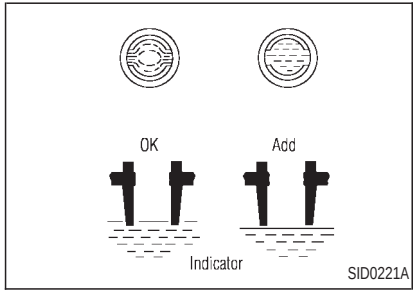
WARNING

- ***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 the 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 MAX. and MIN. lines.

If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**



1. Remove the cell plugs.
2. Add distilled water up to the MAX. level.

If the side of the battery is not clear, check the distilled water level by looking directly above the cell, as illustrated.

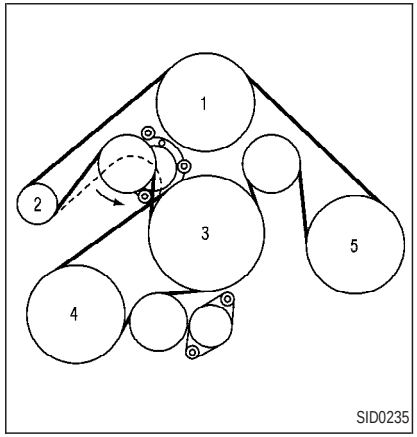
3. Tighten cell plugs.

Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

If jump starting is necessary, see “Jump starting” in the “6. In case of emergency” section. If the engine does not start by jump starting, the battery may have to be replaced. Contact your INFINITI retailer.

DRIVE BELTS



1: Water pump
2: Alternator
3: Crankshaft pulley
4: Power steering fluid pump
5: Air conditioner compressor

WARNING

Be sure the ignition key is in the OFF or LOCK position. The engine could rotate unexpectedly.

1. Visually inspect each belt for signs of unusual wear, cuts, fraying or looseness. If the belt is in poor condition or loose, have it replaced or adjusted by your INFINITI retailer.
2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule in this manual.

SPARK PLUGS

WARNING

Be sure the engine and ignition switch are off and that the parking brake is engaged securely.

CAUTION

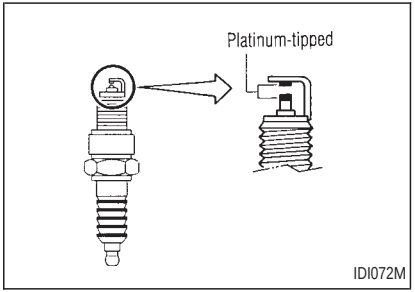
Be sure to use the correct socket to remove the spark plugs. An incorrect socket can cause damage to the spark plugs.

Always replace spark plugs with recommended or equivalent ones.

REPLACING SPARK PLUGS

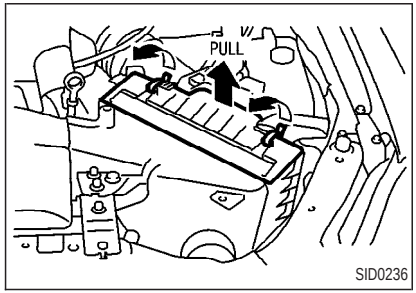
If replacement is required, see your INFINITI retailer for servicing.

Platinum-tipped spark plugs



It is not necessary to replace the platinum-tipped spark plugs as frequently as the conventional type spark plugs since they will last much longer. Follow the maintenance schedule, but do not reuse them by cleaning or regapping.

AIR CLEANER



The filter element should not be cleaned and reused. Replace it according to the maintenance intervals. See “Periodic maintenance schedules” in the “9. Maintenance” section 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 working on the engine with the air cleaner off.***
- ***Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.***

WINDSHIELD WIPER BLADES

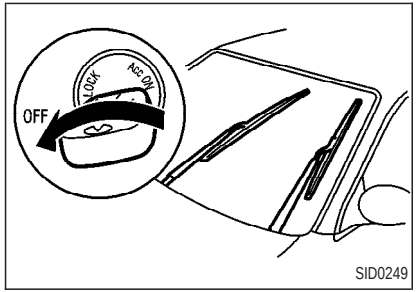
CLEANING

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.

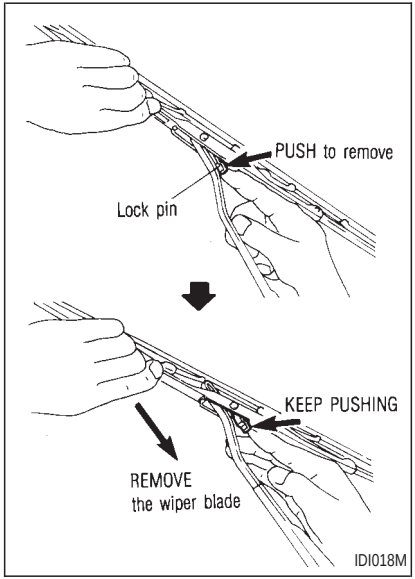
REPLACING



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 lock pin, then remove the wiper blade.
4. Insert the new wiper blade onto the wiper arm until a click sounds.

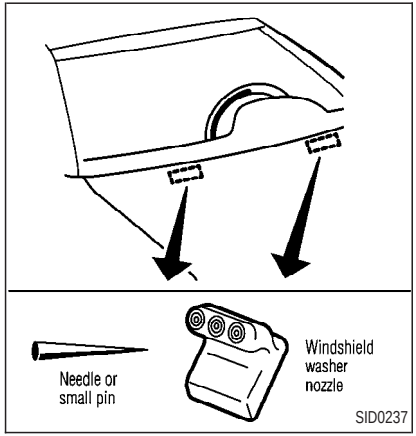
CAUTION

After wiper blade replacement, return the wiper arm to its original position.

Otherwise it may be damaged when the engine hood is opened.

Make sure the wiper blade contacts the glass, otherwise the arm may be damaged from wind pressure.

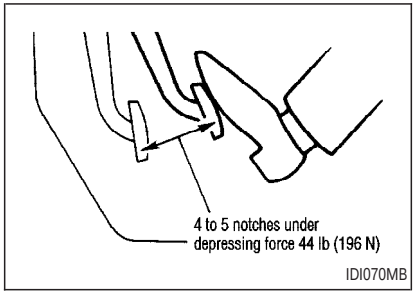
Worn windshield wiper blades can damage the windshield and impair driver vision.



If you wax the surface of the hood, be careful not to let wax get into the washer nozzle. This may cause clogging or improper windshield washer operation. If wax gets into the nozzle, remove it with a needle or small pin.

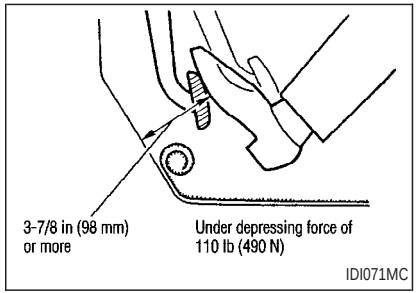
PARKING BRAKE AND BRAKE PEDAL

CHECKING PARKING BRAKE



From the released position, depress the parking brake pedal slowly and firmly, and check the distance between the initial and final position of the pedal. If it is out of the range shown above, see your INFINITI retailer.

CHECKING BRAKE PEDAL



With the engine running, check the distance between the upper surface of the pedal and the metal floor. If it is out of the range shown above, see your INFINITI retailer.

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

The disc-type brakes self-adjust every time the brake pedal is applied.

WARNING

See an authorized INFINITI retailer 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 brakes (if so equipped) do not have audible wear indicators. Should you ever hear an unusually loud noise from the rear drum brakes, have them inspected as soon as possible by your INFINITI retailer.

Proper brake inspection intervals should be followed. For additional information, see “Periodic maintenance schedules” in the “9. Maintenance” section 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 decrease gradually with each depression as the vacuum is released from the booster.

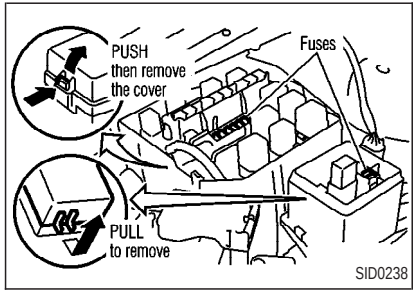
If the brakes do not operate properly, see your INFINITI retailer.

FUSES

CAUTION

Never use a fuse of higher amperage rating than that specified on the fuse box cover. This could damage the electrical system or cause a fire.

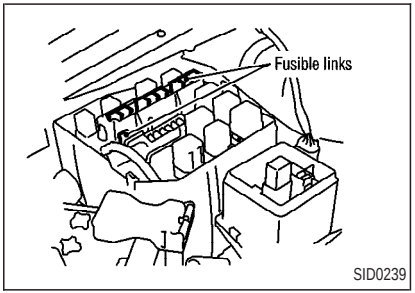
ENGINE COMPARTMENT



If any electrical equipment does not operate, check for an open fuse.

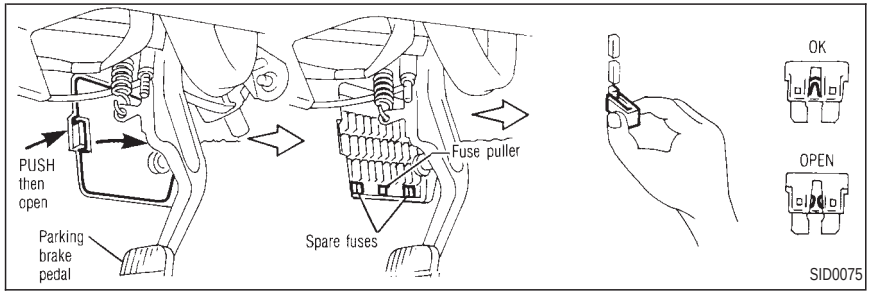
1. Be sure the ignition key and the headlight switch are OFF.
2. Open the engine hood.
3. Remove the fuse box cover.
4. Remove the fuse with the fuse puller.
5. If the fuse is open, replace it with a new fuse.
6. If a new fuse opens again, have the electrical system checked and repaired by your INFINITI retailer.

Fusible links



If any electrical equipment does not operate and fuses are in good condition, check the fusible links. If any of these fusible links are melted, replace only with genuine parts. See your INFINITI retailer.

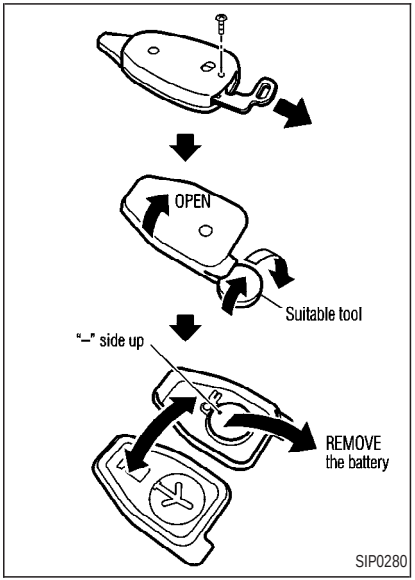
PASSENGER COMPARTMENT



If any electrical equipment does not operate, check for an open fuse.

1. Be sure the ignition key and the headlight switch are OFF.
2. Open the fuse box cover.
3. Remove the fuse with the fuse puller.
4. If the fuse is open, replace it with a new fuse.
5. If a new fuse opens again, have the electrical system checked and repaired by your INFINITI retailer.

ELECTRONIC KEY BATTERY REPLACEMENT



Replace the battery as follows:

1. Open the lid using a suitable tool.
2. Replace the battery with a new one. Recommended battery: CR2025 or equivalent
3. Close the lid securely.
4. Press the key button two or three times to check its operation.

See your INFINITI retailer if you need any assistance for replacement.

If the battery is removed for any reason other than replacement, perform step 4 above.

- **Be careful not to touch a circuit plate and a battery terminal.**
- **An improperly disposed battery can harm the environment. Always confirm local regulations for battery disposal.**
- **The remote controller is water-proof; however, if it does get wet, immediately wipe completely dry.**
- **When changing batteries, do not let dust or oil get on the controller.**

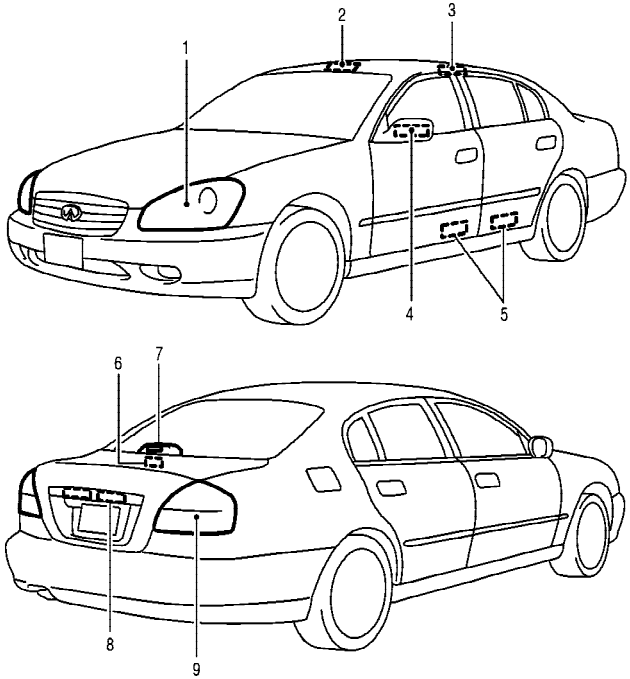
FCC Notice:

Changes or modifications not expressly approved by the manufacturer 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.

LIGHTS



SID0240

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)

HEADLIGHTS

Replacing the xenon headlight bulb

WARNING

HIGH VOLTAGE

When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at an authorized INFINITI retailer. For additional information, see "Headlight and turn signal switch" in the "2. Instruments and controls" section.

Replacing the halogen headlight bulb

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. If replacement is required, see your INFINITI retailer 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.***
- ***Hold the plastic base when handling the bulb. Never touch the glass envelope.***
- ***Use the same number and wattage as originally installed:***

  Wattage 55

  Bulb no. H1
- ***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 retailer.

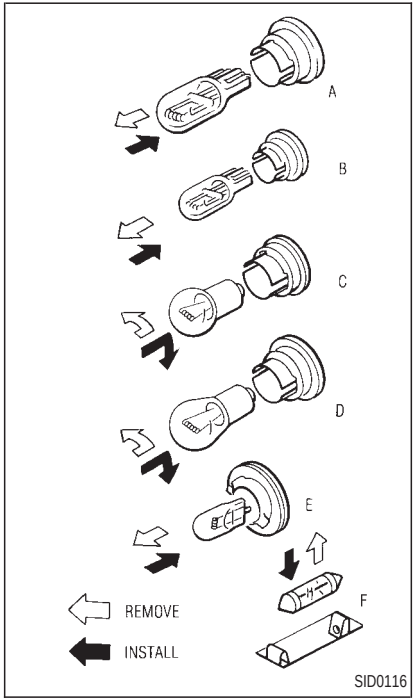
EXTERIOR AND INTERIOR LIGHTS

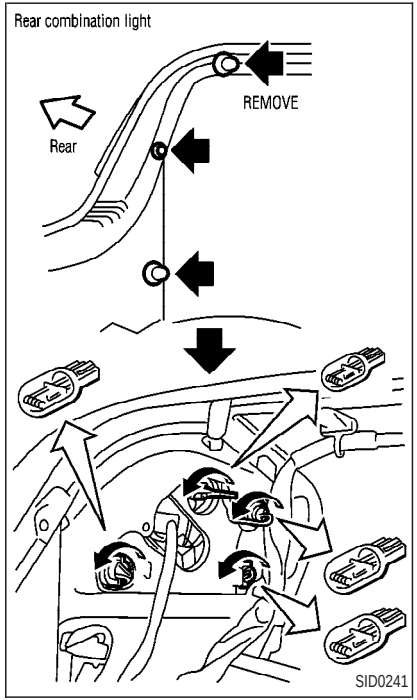
Item	Wattage (W)	Bulb No.
Front turn signal light*	27	1156
Clearance light*	5	168
Front side marker light*	5	168
Side turn signal light*	1	—
Rear combination light		
back-up	18	921
turn signal	21	7440A
stop/tail/side marker	21/5	7443
License plate light	5	168
Front personal light	8	—
Rear personal light	8	—
Vanity mirror light	1.4	—
Step light	2.7	158
Trunk light	3.4	158
High-mounted stop light	18	—

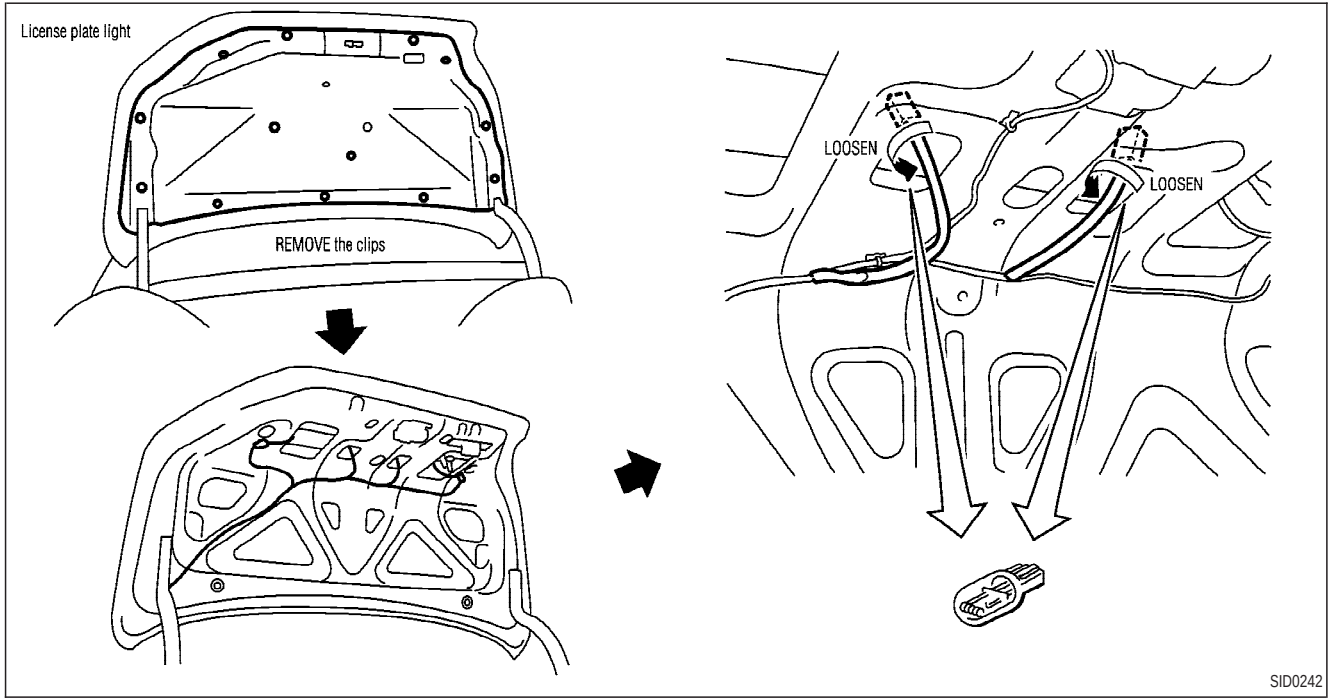
*: See an authorized INFINITI retailer for replacement.

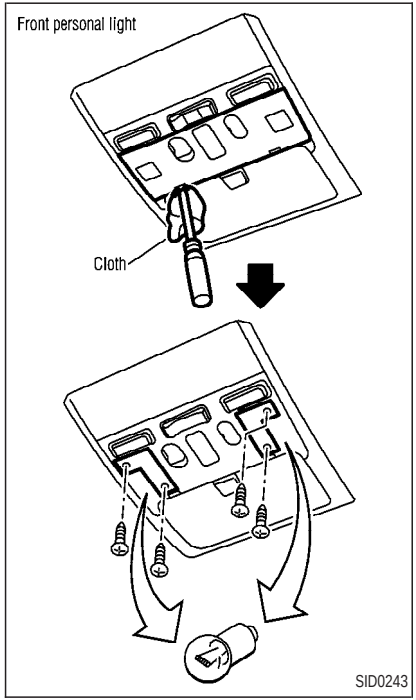
Replacement procedures

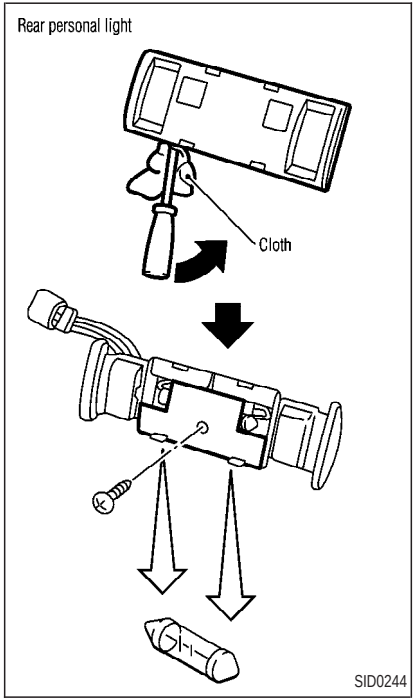
All other lights are either type A, B, C, D, E or F. When replacing a bulb, first remove the lens and/or cover.

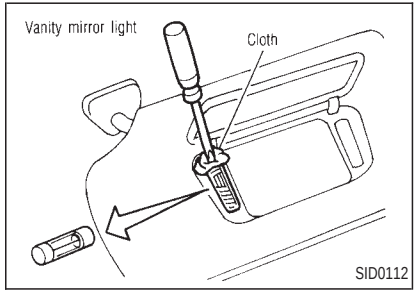


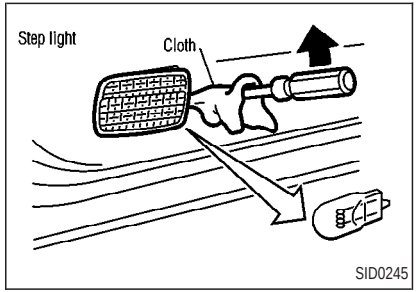


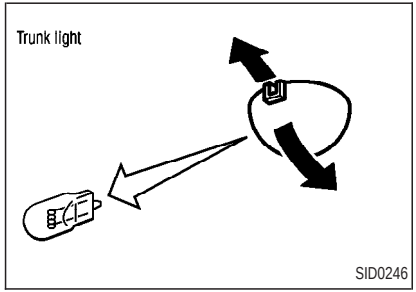

License plate light
REMOVE the clips
LOOSEN
LOOSEN
SID0242

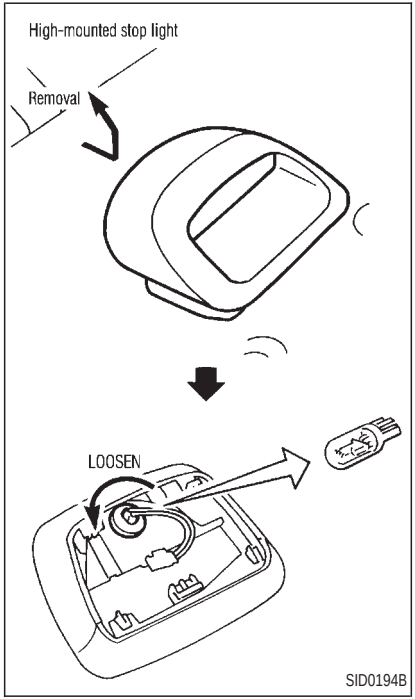

Front personal light
Cloth
SID0243


Rear personal light
Cloth
SID0244


Vanity mirror light
Cloth
SID0112


Step light
Cloth
SID0245



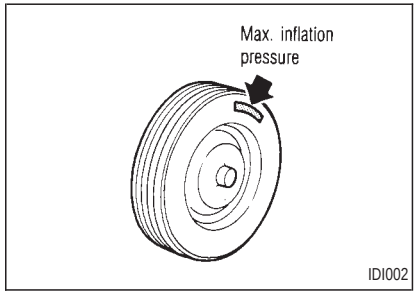


WHEELS AND TIRES

If you have a flat tire, see "Flat tire" in the "6. In case of emergency" section.

TIRE PRESSURE

Maximum inflation pressure



Do not exceed the maximum inflation pressures shown on the side wall of the tire.

Tire inflation pressure

Check the tire pressure (including spare) at least once a month and always prior to long

distance trips. Incorrect tire pressure may adversely affect tire life and vehicle handling. Tire pressure should be checked 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. COLD tire pressures are shown on the tire placard located on the front face of the rear left wheel housing inside the vehicle.

This vehicle is equipped with a low tire pressure warning system, which displays the tire pressure of all tires (except the spare tire) on the monitor screen by sending a signal from a sensor that is installed in each wheel. 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, "Low tire pressure warning system" in the "starting and driving" section, and "Flat tire" in the "6. In case of emergency" section. If the tire pressure displayed on the monitor screen is lower than the COLD tire pressure shown on the tire placard, check the tire pressure of all four wheels and adjust them to the COLD tire pressure as indicated above. The low tire pressure warning system will activate only when the vehicle is driven at speeds above 20 MPH (32 km/h).

WARNING

- ***Improperly inflated tires can fail suddenly and cause an accident.***
- ***The vehicle weight capacity is indicated on the tire placard. 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 have loaded your vehicle heavily, use a tire pressure gauge to ensure that the tire pressures are at the specified level.***
- ***Do not drive your vehicle over 85 MPH (140 km/h) unless it is equipped with high speed capability tires. Driving faster than 85 MPH (140 km/h) may result in tire failure, loss of control and possible injury.***
- ***For additional information re-***

garding tires, refer to "Important Tire Safety Information" in the INFINITI Warranty Information booklet (US).

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 authorized INFINITI retailer 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.***
- ***For additional information regarding tires, refer to "Important Tire Safety Information" in the INFINITI Warranty Information booklet (US).***

All season tires

INFINITI specifies all season tires on some models to provide good performance for use all year around, including snowy and icy road conditions. All season tires are identified by ALL SEASON and/or M&S on the tire sidewall. Snow tires have better snow traction than All season tires and may be more appropriate in some areas.

Summer tires

Summer tire performance in snow and ice will be substantially reduced. Summer tires do not have the tire traction rating M&S on the tire sidewall.

If you operate your vehicle in snowy or icy conditions, INFINITI recommends the use of SNOW or ALL SEASON tires on all four wheels.

Snow tires

If snow tires are needed, it is necessary to select tires equivalent in size and load rating to the original equipment tires. If you do not, it can adversely affect the safety and handling of your vehicle.

Generally, snow tires 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 retailer 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.

- ***Always have punctured run-flat tires replaced.***

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 retailer as soon as possible, as the tire's performance capability is reduced.***

TIRE CHAINS

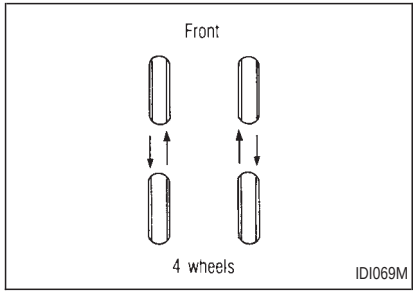
Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE Class S chains.** 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.

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 that tires be rotated every 7,500 miles (12,000 km).

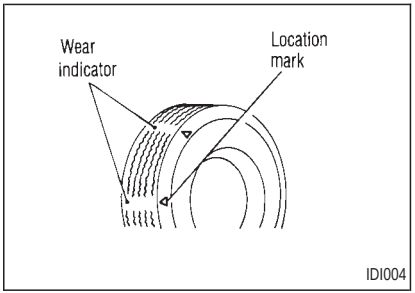
Wheel nut tightening torque:
80 ft-lb (108 N·m)

See “Flat tire” in the “6. In case of emergency” section for tire replacing procedures.

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” in the INFINITI Warranty Information booklet (US).*

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 should be replaced.*

- ***The original tires have built-in tread wear indicators. When wear indicators are visible, the tire 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 authorized INFINITI retailer.***
- ***For additional information regarding tires, refer to "Important Tire Safety Information" in the INFINITI Warranty Information booklet (US).***

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 "10. 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 offset dimension. Wheels of a different offset could cause premature tire wear, degraded vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. Refer to "Wheels and tires" in the "10. Technical and consumer information" section of this manual for wheel offset dimensions.***
- ***When a spare tire is mounted or a wheel is replaced, tire pressure will not be indicated and the low tire pressure warning system will not function. Contact your INFINITI retailer as soon as possible for tire replacement and/or system resetting.***

- ***Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have unknown 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" in the INFINITI Warranty Information booklet (US).***

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" in the INFINITI Warranty Information booklet (US).

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 only for emergency. It should be replaced by the standard tire at the first opportunity.***
- ***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 placard. For tire placard location, see "Tire placard" 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 axle and original tire used on the rear axle (drive wheels). Use tire chains only on the rear (original) tires.*
- *Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the original tire. Replace the spare tire as soon as the tread wear indicators appear.*
- *Do not use the spare tire on other vehicles.*
- *Do not use more than one spare tire at the same time.*
- *Do not tow a trailer when the TEMPORARY USE ONLY spare tire is installed.*

CAUTION

- *Do not use tire chains on a TEMPORARY USE ONLY spare tire. Tire chains will not fit properly and may cause damage to the vehicle.*
- *Because the TEMPORARY USE ONLY spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle do not drive over obstacles. Also do not drive the vehicle through an automatic car wash since it might get caught.*

9 MAINTENANCE

General maintenance 9-2
Explanation of maintenance items 9-3
Periodic maintenance schedules 9-5
Schedule 1..... 9-5
Schedule 2..... 9-6
Explanation of maintenance items 9-11

MAINTENANCE

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 good mechanical condition, as well as its emission and engine performance.

It is the owner's responsibility to make sure that the specified maintenance, as well as general maintenance, is performed.

As the vehicle owner, you are the only one who can ensure that your vehicle receives the proper maintenance care. You are a vital link in the maintenance chain.

General maintenance:

General maintenance includes those items which should be checked during normal day-to-day operation of the vehicle. They are essential if your vehicle is to continue to operate properly. It is your responsibility to perform these procedures regularly as prescribed.

These checks or inspections can be done by yourself, a qualified technician or, if you prefer, your INFINITI retailer.

Periodic maintenance:

The maintenance items listed in this part are required to be serviced at regular intervals.

However, under severe driving conditions, additional or more frequent maintenance will be required.

Where to go for service:

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and serviced by an authorized INFINITI retailer.

INFINITI technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership information systems. They are completely qualified to work on INFINITI vehicles **before** work begins.

You can be confident that your INFINITI retailer'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 retailer do it promptly. In addition, you should notify your INFINITI retailer if you think that repairs are required.

When performing any checks or maintenance work, see "Maintenance precautions" in the "8. Do-it-yourself" section.

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with "*" is found in the "8. Do-it-yourself" section.

Outside the vehicle

The maintenance items listed here should be performed from time to time, unless otherwise specified.

Tires*: Check the pressure with a gauge at least once a month and always prior to long distance trips, including the spare, and adjust to the specified pressure if necessary. Check carefully for damage, cuts or excessive wear.

Wheel nuts*: When checking the tires, make sure no nuts are missing, and check for any loose nuts. Tighten if necessary.

Tire rotation*: Tires should be rotated every 7,500 miles (12,000 km).

Wheel alignment and balance: If the vehicle pulls 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" in the INFINITI Warranty Information booklet (US).

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.

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.

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.

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.

Warning lights and chimes: Make sure that all warning lights and chimes are operating properly.

Windshield wiper and washer*: Check that the wipers and washer operate properly and that the wipers do not streak.

Windshield defroster: Check that the air comes out of the defroster outlets properly and in sufficient quantity when operating the heater or air conditioner.

Steering wheel: Check for changes in the steering conditions, such as excessive free play, hard steering or strange noises.

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.

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.

Accelerator pedal: Check the pedal for smooth operation and make sure the pedal does not catch or require uneven effort. Keep the floor mats away from the pedal.

Brakes: Check that the brakes do not pull the vehicle to one side when applied.

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 mats away from the pedal.

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.

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.

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).

Windshield washer fluid*: Check that there is adequate fluid in the tank.

Engine coolant level*: Check the coolant level when the engine is cold.

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.

Brake fluid level*: Make sure that the brake fluid level is between the MAX and MIN lines on the reservoir.

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 frequent checks of the battery fluid level.

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 a few minutes for the oil to drain back into the oil pan.)

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.

Cooling fan 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.

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).

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.

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.

PERIODIC MAINTENANCE SCHEDULES

To ensure smooth, trouble-free, safe and economical driving, INFINITI provides two different maintenance schedules that may be used, depending upon the conditions in which you usually drive. These schedules contain both distance and time intervals, up to 60,000 miles (96,000 km)/48 months. For most people, the odometer reading will indicate when service is needed. However, if you drive very little, your vehicle should be serviced at the regular time intervals shown in the schedule. **After 60,000 miles (96,000 km) or 48 months, continue periodic maintenance at the same mileage/time intervals.**

SCHEDULE 1

Follow Periodic Maintenance Schedule 1 if your driving habits frequently include one or

more of the following driving conditions:

- **repeated short trips of less than 5 miles (8 km).**
- **repeated short trips of less than 10 miles (16 km) with outside temperatures remaining below freezing.**
- **operating in hot weather in stop-and-go rush hour traffic.**
- **extensive idling and/or low speed driving for long distances, such as police, taxi or door-to-door delivery use.**
- **driving in dusty conditions.**
- **driving on rough, muddy, or salt spread roads.**
- **towing a trailer, using a camper or a car-top carrier.**

SCHEDULE 2

Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in Schedule 1 apply to your driving habits.

Schedule 1

Abbreviations: R = Replace, I = Inspect. Correct or replace if necessary. [ ]: Perform service at the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL															
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
EMISSION CONTROL SYSTEM MAINTENANCE																	
Engine oil		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Engine oil filter (Use Part No. 15208-31U00 or equivalent)		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
Air cleaner filter	See NOTE (1)								[R]								[R]
EVAP vapor lines									I*								I*
Fuel lines									I*								I*
Drive belts	See NOTE (2)																I*
Engine coolant	See NOTE (3)																R*
Spark plugs (PLATINUM-TIPPED type)							Replace every 105,000 miles (169,000 km)										
Fuel filter	See NOTE (4)																
Intake & exhaust valve clearance*	See NOTE (5)																

NOTE:
(1) If operating mainly in dusty conditions, more frequent maintenance may be required.
(2) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. Replace the drive belts if found damaged or if the auto belt tensioner reading reaches the maximum limit.
(3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
(4) Maintenance-free item (In-tank type fuel filter).
(5) If valve noise increases, inspect valve clearance.
*** Maintenance items and intervals with "*" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.**

Schedule 1

Abbreviations: R = Replace, I = Inspect. Correct or replace if necessary.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL															
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48
CHASSIS AND BODY MAINTENANCE																	
Brake lines & cables					I				I				I				I
Brake pads & rotors			I		I		I		I		I		I		I		I
Automatic transmission fluid & differential gear oil	See NOTE (1)				I				I				I				I
Steering gear & linkage, axle & suspension parts			I		I		I		I		I		I		I		I
Tire rotation	See NOTE (2)																
Exhaust system			I		I		I		I		I		I		I		I
Ventilation air filter			I		R		I		R		I		R		I		R
Automatic Speed Control Device (ASCD) vacuum hoses					I				I				I				I

NOTE: (1) If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months. Using automatic transmission fluid other than Nissan Genuine ATF Matic Fluid J 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.

(2) Refer to "Tire rotation" under the "General maintenance" heading earlier in this section.

Schedule 2

Abbreviations: R = Replace, I = Inspect. Correct or replace if necessary.

[ ]: Perform service at the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48
EMISSION CONTROL SYSTEM MAINTENANCE									
Engine oil		R	R	R	R	R	R	R	R
Engine oil filter (Use Part No. 15208-31U00 or equivalent)		R	R	R	R	R	R	R	R
Air cleaner filter					[R]				[R]
EVAP vapor lines					I*				I*
Fuel lines					I*				I*
Drive belts	See NOTE (1)								I*
Engine coolant	See NOTE (2)								R*
Spark plugs (PLATINUM-TIPPED Type)				Replace every 105,000 miles (169,000 km)					
Fuel filter	See NOTE (3)								
Intake & exhaust valve clearance*	See NOTE (4)								

NOTE:
(1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months. Replace the drive belts if found damaged or if the auto belt tensioner reading reaches the maximum limit.
(2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
(3) Maintenance-free item (In-tank type fuel filter).
(4) If valve noise increases, inspect valve clearance.
*** Maintenance items and intervals with "*" are recommended by INFINITI for reliable vehicle operation. The owner need not perform such maintenance in order to maintain the emission warranty or manufacturer recall liability. Other maintenance items and intervals are required.**

Schedule 2

Abbreviations: R = Replace, I = Inspect. Correct or replace if necessary.

MAINTENANCE OPERATION		MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48
CHASSIS AND BODY MAINTENANCE									
Brake lines & cables			I		I		I		I
Brake pads & rotors			I		I		I		I
Automatic transmission fluid & differential gear oil			I		I		I		I
Steering gear & linkage, axle & suspension parts					I				I
Tire rotation	See NOTE (1)								
Exhaust system					I				I
Ventilation air filter			R		R		R		R
Automatic Speed Control Device (ASCD) vacuum hoses			I		I		I		I

NOTE: (1) Refer to “Tire rotation” under the “General maintenance” earlier in this section.

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with "*" is found in the "8. Do-it-yourself" section.

Emission control system maintenance

Drive belts*: Check drive belts for wear, fraying or cracking and also for proper tension. Replace the drive belts if found damaged or if the auto belt tensioner reading reaches the maximum limit.

Air cleaner filter: Under normal driving conditions, the air cleaner filter should be replaced in accordance with the maintenance schedule. However, driving the vehicle in dusty areas may cause more rapid clogging of the element. Consequently, the element may have to be replaced more frequently.

EVAP vapor lines: Check vapor lines and connections for failure or looseness. If leaks are found, replace them.

Fuel lines: Check the fuel hoses, piping and connections for leaks, looseness or deterioration. Replace any parts if they are damaged.

Engine coolant*: Drain and flush the cooling system.

Engine oil & oil filter*: Under normal driving conditions, the engine oil and oil filter should be replaced in accordance with the maintenance schedule. However, under severe driving conditions, they may have to be replaced more frequently.

Spark plugs*: Replace with new plugs having the correct heat range.

Chassis and body maintenance

Brake lines & cables: Check the brake lines and hoses (including brake booster vacuum hoses, connections & check valve) and parking brake cables for proper attachment, leaks, cracks, chafing, abrasion, deterioration, etc.

Brake pads & rotors: Check these and the other neighboring brake components for wear, deterioration and leaks. Under severe driving conditions, they may have to be inspected more frequently.

Automatic transmission fluid & differential gear oil*: Using automatic transmission fluid other than Nissan Genuine ATF Matic Fluid J will cause deterioration in driveability and automatic transmission durability, and may damage the automatic transmission, which is not covered by the INFINITI new vehicle limited warranty. When checking or replacement is required, we recommend your INFINITI retailer for servicing.

Under severe driving conditions, the fluid or oil should be replaced at the specified interval.

Steering gear & linkage, axle & suspension parts: Check for damage, looseness and leakage of oil or grease. Under severe driving

conditions, more frequent inspection should be performed.

Exhaust system: Visually check the exhaust pipes, muffler, and hangers for proper attachment, leaks, cracks, chafing, abrasion, deterioration, etc. Under severe driving conditions, inspection should be performed more frequently.

Ventilation air filter: Under normal conditions, the ventilation air filter should be replaced in accordance with the maintenance schedule. However, in some situations, the air filter may clog more rapidly (depending on the air conditioner's working environment). If this happens, the air flow may decrease, or the windows may fog up easily when the air conditioner is in use, the air filter should be replaced immediately at your INFINITI retailer.

Automatic Speed Control Device (ASCD) vacuum hoses: Check vacuum hose (between ASCD actuator and ASCD pump) for breakage, cracks or fracture.

10 TECHNICAL AND CONSUMER INFORMATION

Capacities and recommended fuel/lubricants 10-2
Fuel recommendation..... 10-3
Engine oil and oil filter recommendation 10-5
Recommended SAE viscosity number 10-7
Air conditioning system refrigerant and lubricant recommendations..... 10-8
Specifications 10-9
Engine..... 10-9
Tires and wheels 10-10
Dimensions and weights..... 10-10
When traveling or registering your vehicle in another country 10-11
Vehicle identification..... 10-11
Vehicle identification number (VIN) plate..... 10-11
Vehicle identification number (Chassis number)..... 10-12
Engine serial number 10-12
F.M.V.S.S. certification label 10-12
Emission control information label.... 10-13
Tire placard 10-13
Air conditioner specification label..... 10-13
Installing front license plate..... 10-14
Vehicle loading information..... 10-15
Terms 10-15
Determining vehicle pay load capacity 10-16
Loading tips..... 10-16
Towing a trailer..... 10-17
Maximum load limits..... 10-17
Towing safety 10-18
Uniform tire quality grading 10-21
Emission control system warranty..... 10-22
Reporting safety defects (US only)..... 10-22

Readiness for inspection/maintenance (I/M) test (US only) 10-23
Owner's Manual/Service Manual order information 10-24
In the event of a collision 10-25

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. 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				• API Certification Mark*2, *3 • API grade SG/SH, Energy Conserving I & II or API grade SJ, Energy Conserving*2, *3 • ILSAC grade GF-I & GF-II*2, *3
With oil filter change	5-5/8 qt	4-5/8 qt	5.3	
Without oil filter change	5-1/4 qt	4-3/8 qt	5.0	
Cooling system				Genuine Nissan Anti-freeze coolant or equivalent
With reservoir	10-3/8 qt	8-5/8 qt	9.8	
Reservoir	7/8 qt	3/4 qt	0.8	
Cooling fan fluid	Refill to the proper oil level according to the instructions in the "8. Do-it-yourself" section			Genuine Nissan PSF II or equivalent*4
Power steering fluid				Genuine Nissan PSF II or equivalent*4
Brake fluid				Genuine Nissan Brake Fluid*7 or equivalent DOT 3 (US FMVSS No. 116)
Automatic transmission fluid	—	—	—	Nissan Genuine ATF Matic Fluid J*5
Differential gear oil	—	—	—	API GL-5*3
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

*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: Genuine Nissan PSF, Canada Nissan Automatic Transmission Fluids, Dexron™III/Mercon™, or equivalent ATF may also be used.
*5: Using automatic transmission fluid other than Nissan Genuine ATF Matic Fluid J 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. Do-it-yourself" section for changing engine oil.
*7: Available in mainland US through your INFINITI retailer.

FUEL RECOMMENDATION

In order to maintain engine and exhaust system durability and performance, unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96) must be used.

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 since this will damage the three way catalyst.

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% oxygen-**

ate. (MTBE may, however, be added up to 15%.)

- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in INFINITI vehicles.**

If any undesirable driveability problems such as engine stalling 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.

Aftermarket fuel additives

INFINITI does not recommend the use of any fuel additives (i.e. 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

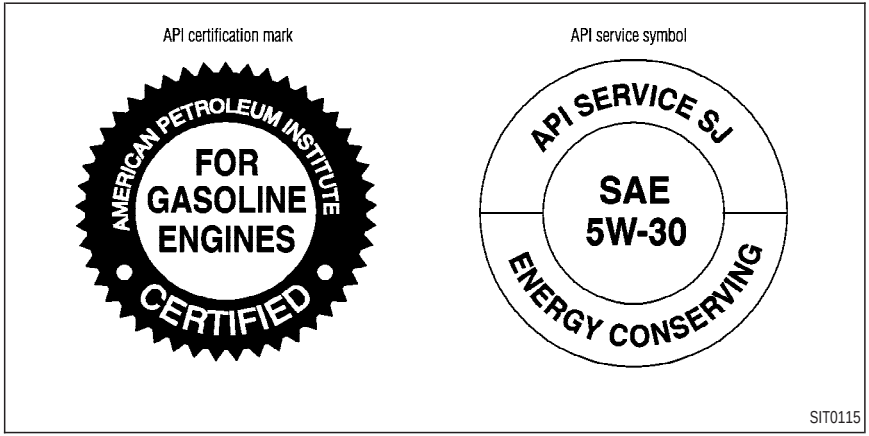
In most parts of North America, you should use unleaded gasoline with an octane rating of at least 87 or 91 AKI (Anti-Knock Index) number. However, you may use unleaded gasoline with an octane rating as low as 85 AKI number in these high altitude areas [over 4,000 ft (1,219 m)] such as: Colorado, Montana, New Mexico, Utah, Wyoming, northeastern Nevada, southern Idaho, western South Dakota, western Nebraska, and that part of Texas which is directly south of New Mexico.

Using unleaded gasoline with an octane rating lower than stated 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 retailer or other competent service facility.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.



ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose the correct quality, and viscosity oil to ensure satisfactory engine life and performance. INFINITI recommends the use of a low friction oil (energy conserving oil) in order to improve fuel economy and conserve energy. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Only those engine oils with the American Petroleum Institute (API) certification mark on the front of the container should be used. This

type of oil supersedes the existing API SG, SH or SJ and Energy Conserving I & II categories.

If you cannot find engine oil with the API certification mark, use an API grade SG/SH, Energy Conserving I & II or API grade SJ, Energy Conserving oil. An oil with a single designation SG, SH, SJ or in combination with other categories (for example, SG/CC or SG/CD) may also be used if one with the API certification mark cannot be found. An ILSAC grade GF-I & GF-II oil can also be used.

Mineral based or synthetic type oils may be used in your INFINITI vehicle. These oils must however, meet the API quality and SAE viscosity ratings specified for your vehicle. Do not mix mineral based and synthetic type oils in the engine at the same time.

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.

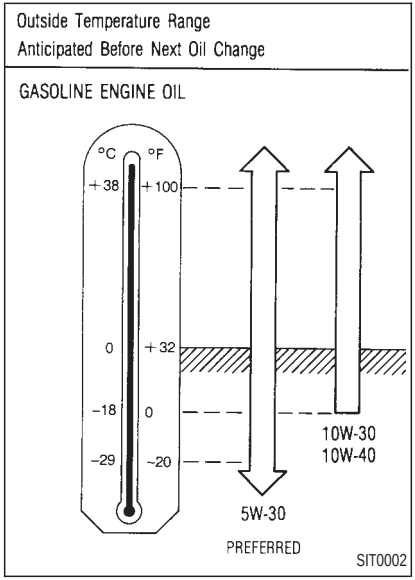
Change intervals

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 warranties.

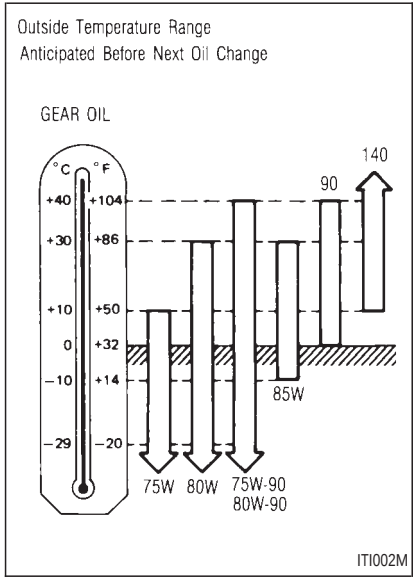
Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

- repeated short distance driving at cold outside temperatures,
- driving in dusty conditions,
- extensive idling,
- towing a trailer.

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 ambient temperature is above 0°F (−18°C).



For differential gear oil, 80W-90 is preferable for ambient temperatures below 104°F (40°C).

AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioning in your INFINITI vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, Nissan A/C system oil Type S or the exact equivalents.

CAUTION

The use of any other refrigerant or lubricant will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your INFINITI vehicle will not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain governmental regulations require the recovery and recycling of any refrigerant during automotive air conditioning system service. Your INFINITI retailer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

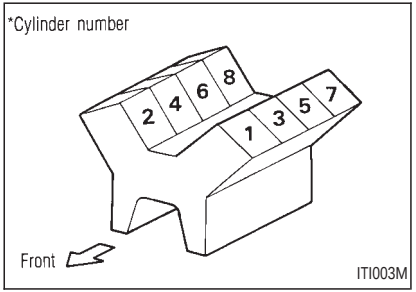
Contact your INFINITI retailer when servicing your air conditioning system.

SPECIFICATIONS

ENGINE

Model		VK45DE
Type		Gasoline, 4-cycle
Cylinder arrangement		8-cylinder, V-slanted at 90°
Bore × Stroke	in (mm)	3.661 × 3.256 (93.0 × 82.7)
Displacement	cu in (cm^3)	274.22 (4,494)
Firing order*		1-8-7-3-6-5-4-2*
Idle speed	rpm	See the emission control information label on the underside of the hood.
Ignition timing (BTDC)	degree/rpm	
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 × Length	in (mm)	0.841 × 76.38 (21.36 × 1,940)

The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations.



TIRES AND WHEELS

	Luxury	Sport/ Premium Package	Spare (T-type)
Road wheel			
Aluminum	17 x 7.5JJ	18 x 7.5JJ	—
Steel	—	—	16 x 4T
Offsetin (mm)	1.57 (40)	1.57 (40)	1.18 (30)
Tire size	P225/55R17 95V P225/55R17*	P245/45R18 96V	T145/90D16 106M

*: Run-flat tire Option

DIMENSIONS AND WEIGHTS

		Sedan
Overall length	in (mm)	199.6 (5,070)
Overall width	in (mm)	72.6 (1,845)
Overall height	in (mm)	58.7 (1,490)
Front tread	in (mm)	62.2 (1,580)
Rear tread	in (mm)	61.4 (1,560)
Wheelbase	in (mm)	113.0 (2,870)
Gross vehicle weight rating	lb (kg)	See the F.M.V.S.S. certification label on the driver's side lock pillar.
Gross axle weight rating		
Front	lb (kg)	
Rear	lb (kg)	

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.

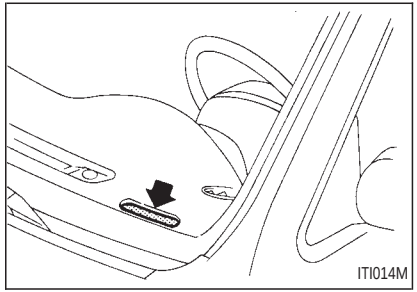
When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

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.

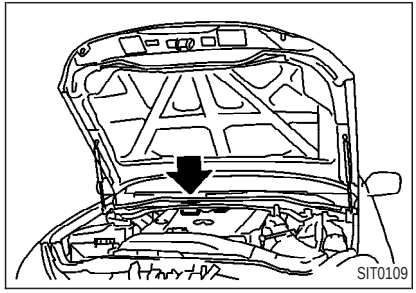
VEHICLE IDENTIFICATION

VEHICLE IDENTIFICATION NUMBER (VIN) PLATE



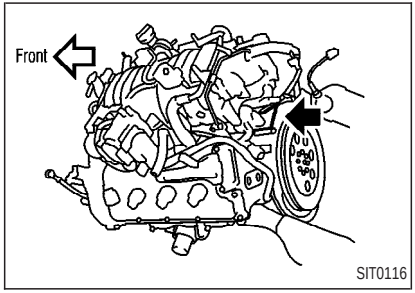
The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.

VEHICLE IDENTIFICATION NUMBER (Chassis number)



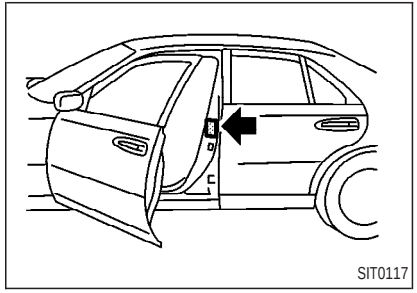
The number is stamped as shown.

ENGINE SERIAL NUMBER



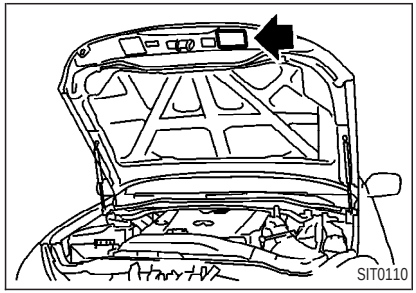
The number is stamped on the engine as shown.

F.M.V.S.S. CERTIFICATION LABEL



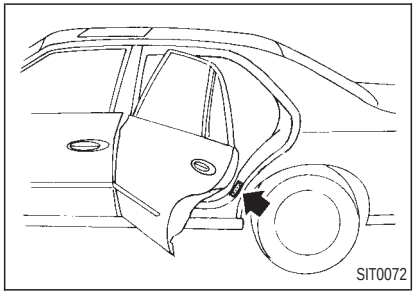
The Federal Motor Vehicle Safety Standards (F.M.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number, (VIN), etc. Review it carefully.

EMISSION CONTROL INFORMATION LABEL



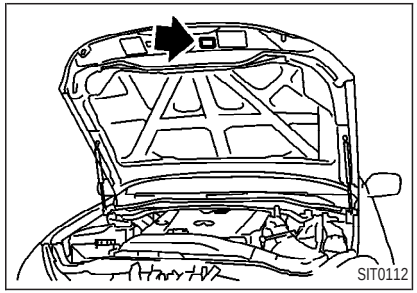
The emission control information label is attached as shown.

TIRE PLACARD

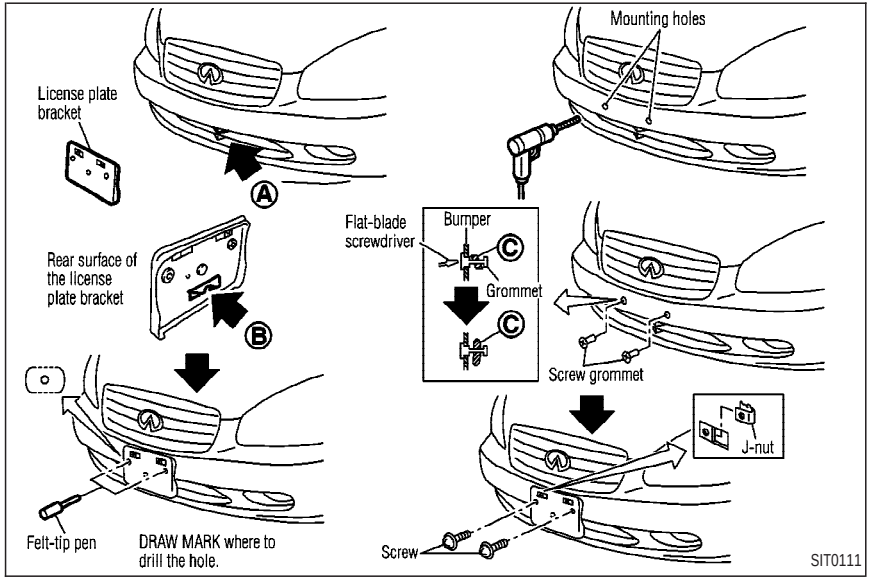


The cold tire pressure is shown on the tire placard located on the front face of the rear left wheel housing inside the vehicle.

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 Ⓐ of the front bumper with part Ⓑ 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.)**
5. Insert grommets into the hole on the fascia.
6. Insert a flat-blade screwdriver into the grommet hole to add 90° turn onto the part Ⓒ.
7. Insert a J-nut into the license plate bracket before placing the license plate bracket on the fascia.
8. Install the license plate bracket with screws.
9. Install the license plate with bolts that are no longer than 0.55 inch (14 mm).

VEHICLE LOADING INFORMATION

WARNING

- ***It is extremely dangerous to ride in a cargo area inside the vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.***
- ***Do not allow people to ride in any area of vehicle that is not equipped with seats and seat belts.***
- ***Be sure everyone in the vehicle is in a seat with their seat belt properly fastened.***

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire assembly. This weight **does not** include passengers and cargo.
- GVW (Gross Vehicle Weight) - curb weight plus the combined weight of passengers and cargo.
- GVWR (Gross Vehicle Weight Rating) - maximum total weight (load) limit specified for the vehicle.
- GAWR (Gross Axle Weight Rating) - maximum weight (load) limit specified for the front or rear axle.

DETERMINING VEHICLE PAY LOAD CAPACITY

The pay load capacity of this vehicle is determined by weight, not by available cargo space. For example, a luggage rack, bike carrier, cartop carrier or similar equipment does not increase load carrying capacity of your vehicle.

To determine vehicle pay load capacity:

Vehicle weight can be determined by using a commercial-grade scale, found at places such as a truck stop, gravel quarry, grain elevator, or a scrap metal recycling facility.

1. Determine the curb weight of your vehicle.
2. Compare the curb weight amount to the GVWR specified for your vehicle to determine how much more weight your vehicle can carry.
3. After loading (cargo and passengers), reweigh your vehicle to determine if either GVWR or GAWR for your vehicle is exceeded. If GVWR is exceeded, remove cargo as necessary. If either the front or rear GAWR is exceeded, shift the load or remove cargo as necessary.

LOADING TIPS

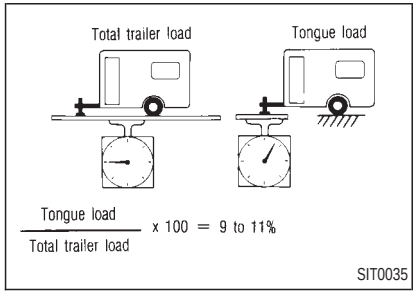
- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

WARNING

- ***Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.***

- ***Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.***
- ***Overloading can shorten the life of the vehicle. Failures caused by overloading are not covered by the vehicle warranty.***

TOWING A TRAILER



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.

Information on trailer towing and the special equipment required should be obtained from a professional trailer dealer/installer.

MAXIMUM LOAD LIMITS

Maximum trailer loads

Never allow the total trailer load to exceed 1,000 lb (454 kg). The total trailer load equals trailer weight plus its cargo weight. Towing loads greater than 1,000 lb (454 kg) or using improper towing equipment could adversely affect vehicle handling, braking and performance.

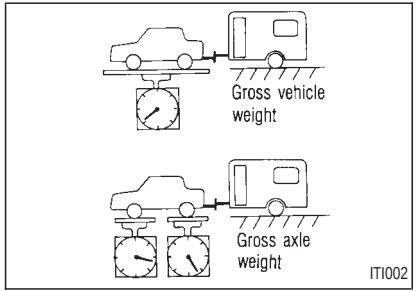
The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced on very steep grades or in low traction situations (for example, on slippery boat ramps).

⚠ *WARNING*

Vehicle damage and/or personal injury resulting from improper towing procedures are not covered by INFINITI warranties. An Infiniti Trailer Towing Guide (U.S. only) containing information on trailer towing ability and the special equipment required may be obtained from an authorized INFINITI retailer.

Tongue load

Keep the tongue load between 9 and 11% of the total trailer load. 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 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. A genuine INFINITI trailer hitch is available from your INFINITI retailer (Canada only). 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.

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 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 placard (located on the front face of the rear left wheel housing inside the vehicle).
- 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 chain 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 chain to permit turning corners.

Trailer lights

Trailer lights should comply with federal and/or local regulations. When wiring the vehicle for towing, connect the stop and tail light pickup into the vehicle electrical circuit at a point between the sensor and stop light switch or light switch.

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.
- 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.
- 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 ascending 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.
- 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 overdrive (automatic transmission).
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.

When towing a trailer, change fluid in the transmission more frequently.

See "Periodic maintenance schedules" in the "9. Maintenance" section.

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

Treadwear grade is a comparative rating based on tire wear rate when tested under controlled conditions on specified government test courses. For example, a tire graded 150 would wear one and a half (1-1/2) times as well on the government course as a tire graded 100. However, relative tire performance depends on actual driving conditions, and may vary 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 your vehicle tires is based on straight ahead braking traction tests and does not include acceleration cornering hydroplaning or speak traction characteristics.

Temperature A, B and C

Temperature grades are A (the highest), B, and C. They represent a tire's resistance to heat build-up, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause tire material to degenerate, reducing tire life. Excessive temperatures can lead to sudden tire failure. Grade C corresponds to a performance level which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades A and B represent higher levels of performance on laboratory test wheels 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 90248-0191
- Nissan Canada Inc.
  5290 Orbitor Drive
  Mississauga, Ontario,
  L4W 4Z5
- INFINITI Division
  Nissan Motor Corporation in Hawaii, Ltd.
  Consumer Affairs Department
  2880 Kilihau Street
  Honolulu, Hawaii 96819

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 retailer, or INFINITI.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-888-327-4236. You may also write to:

NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

You may notify INFINITI by contacting our Consumer Affairs Department, toll-free, at 1-800-662-6200.
In Hawaii call 808-836-0888.

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, 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 retailer 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 when the engine coolant temperature gauge needle points to C. Allow the engine to idle until the 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 6 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 5 minutes.
4. Stop the vehicle.

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 3 times.
7. Accelerate the vehicle to 55 MPH (88 km/h) and maintain the speed for at least 3 minutes.
8. Stop the vehicle and turn the engine off.
9. 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.

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 authorized INFINITI retailers. 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
1-800-639-8841
www.nissan-techinfo.com

For current pricing and availability of genuine **INFINITI Service Manuals** for the 1999 model year and prior, see an authorized INFINITI retailer, or contact:

DDS Distribution Services, Ltd.
20770 Westwood Road
Strongsville, OH 44136
1-800-247-5321

For current pricing and availability of genuine **INFINITI Owner's Manuals** for the 2002 model year and prior, see an authorized INFINITI retailer, or contact:

DDS Distribution Services, Ltd.
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 retailer. For the phone number and location of an INFINITI retailer in your area call the INFINITI Satisfaction Center at 1-800-361-4792 and a bilingual INFINITI representative will assist you.

Also available are genuine INFINITI Service and Owner's Manuals for older INFINITI models.

IN THE EVENT OF A COLLISION

Unfortunately, accidents do occur. In this unlikely event, there is some important information you should know. Many insurance companies routinely authorize the use of non-genuine collision parts in order to cut costs, among other reasons.

Insist on the use of Genuine Infiniti Collision Parts!

If you want your vehicle to be restored using parts made to Infiniti's original exacting specifications — if you want to help it to last and hold its resale value, the solution is simple. **Tell your insurance agent and your repair shop to only use Genuine Infiniti Collision Parts.** Infiniti does not warrant non-Infiniti parts, nor does Infiniti's warranty apply to damage caused by a non-genuine part.

Using Genuine Infiniti Parts can help protect your personal safety, preserve your warranty protection and maintain the resale value of your vehicle. And if your vehicle was leased, using Genuine Infiniti Parts may prevent or limit unnecessary excess wear and tear expenses at the end of your lease.

Infiniti designs its hoods with crumple zones to minimize the risk that the hood will penetrate the windshield of your vehicle in an accident. Non-genuine (imitation) parts may not provide such built in safeguards. Also, non-genuine parts often show premature wear, rust and corrosion.

Why should you take a chance?

In over 40 states, the law says you must be advised if non-genuine parts are used to repair your vehicle. And some states have enacted laws that restrict insurance companies from authorizing the use of non-genuine collision parts during the new vehicle warranty. These laws help protect you, so you can take action to protect yourself.

It's your right!

11 INDEX

A

ABS (Anti-lock brake system) 5-36
Active damper suspention 5-35
Active damper suspention mode select switch 2-25
Aiming control, Headlights 2-20
Air bag system, Front (See supplemental front airbag system) 1-14
Air bag warning labels 1-20
Air bag warning light 1-20, 2-11
Air cleaner housing filter 8-16
Air conditioner
- Air conditioner specification label 10-13
- Air conditioning system refrigerant and lubricant recommendations 10-8
- Air filter 4-17
- Automatic climate control 4-13
- Rear control button 4-16

Alcohol, drugs and driving 5-6
Anchor point locations, Top tether strap 1-41
Antenna 4-31
Anti-lock Brake System (ABS) 5-36
Anti-lock brake warning light 2-7
Appearance care
- Exterior appearance care 7-2
- Interior appearance care 7-4

Ashtrays (See cigarette lighters and ashtrays) 2-27
Audible reminders 2-14
Audio operation precautions 4-19
Audio system 4-17
Automatic
- Anti-dazzle inside mirror 3-17
- Automatic transmission fluid (ATF) 8-10
- Automatic transmission position indicator light 2-11
- Climate control 4-13
- Driving with automatic transmission 5-7, 5-10
- Drive positioner 3-19
- Transmission selector lever lock release 5-14

Avoiding collision and rollover 5-6

B

Battery 8-12
- Battery saver system 2-22

Battery replacement, (See multi-remote control system) 3-10
Before starting the engine 5-9
Belts (See drive belts) 8-14
Brake
- Anti-lock brake system (ABS) 5-36
- Brake booster 8-19
- Brake fluid 8-11
- Brake pedal 8-18
- Brake pedal check 8-18
- Brake system 5-36
- Parking brake check 5-15, 8-18
- Parking brake operation 5-15
- Warning light 2-8

Break-in schedule 5-32
Bulb check/instrument panel 2-7
Bulb replacement 8-23

C

Cabin air filter 4-17
Capacities and recommended fuel/lubricants 10-2
Car phone or CB radio 4-32
Cargo (See vehicle loading information) 2-31
Cargo net 2-31
Cassette player (See audio system) 4-26
Catalytic converter, Three way catalyst 5-3
CD care and cleaning 4-29
CD changer operation 4-27
Child restraints 1-31
- Installation on front passenger seat 1-41

INDEX

Installation on rear seat center or outboard positions 1-34
Precautions on child restraints 1-31
Top tether strap anchor point locations 1-41
With top tether strap 1-40
Child safety 1-25
Child safety rear door lock 3-5
Chimes, Audible reminders 2-14
Cigarette lighters and ashtrays 2-27
Circuit breaker, Fusible link 8-20
Cleaning exterior and interior 7-2, 7-4
Clock 2-26
Cold weather driving 5-39
Control panel button functions 4-3
Console box 2-30
Coolant
Capacities and recommended fuel/ lubricants 10-2
Changing engine coolant 8-6
Checking engine coolant level 8-5
Cooling fan fluid 8-11
Corrosion protection 7-6
Cruise control
Cruise control 5-16
Intelligent cruise control system 5-18
Cup holders 2-28

D

Daytime running light system 2-21
Defogger switch, Rear window and outside mirror defogger switch 2-18
Dimensions and weights 10-10
Door open warning light 2-9
Drive belts 8-14
Driving
Cold weather driving 5-39
Driving with automatic transmission 5-7, 5-10
Precautions when starting and driving 5-2

E

Economy, Fuel 5-33
Electric sunroof 2-34
Emission control information label 10-13
Emission control system warranty 10-22
Engine
Before starting the engine 5-9
Block heater 5-41
Capacities and recommended fuel/lubricants 10-2
Changing engine coolant 8-6
Changing engine oil 8-8
Changing engine oil filter 8-9
Checking engine coolant level 8-5
Checking engine oil level 8-7
Coolant temperature gauge 2-5
Engine compartment check locations 8-4
Engine cooling system 8-5
Engine oil 8-7
Engine oil and oil filter recommendation 10-5
Engine oil viscosity 10-6
Engine serial number 10-12
Engine specifications 10-9
If your vehicle overheats 6-12
Starting the engine 5-9
Exhaust gas (Carbon monoxide) 5-2

F

F.M.V.S.S. certification label 10-12
Filter, Air cleaner housing filter 8-16
Flashers (See hazard warning flasher switch) 2-23
Flat tire 6-2
Flat tire warning 2-9
Floor mat cleaning 7-4, 7-5

Fluid
Automatic transmission fluid (ATF) 8-10
Brake fluid 8-11
Capacities and recommended fuel/lubricants 10-2
Cooling fan fluid 8-11
Engine coolant 8-5
Engine oil 8-7
Power steering fluid 8-10
Window washer fluid 8-12
FM-AM radio with cassette player and Compact Disc (CD) player 4-21
Front air bag system (See supplemental restraint system) 1-14
Front power seat adjustment 1-2
Fuel
Capacities and recommended fuel/lubricants 10-2
filler cap 3-14
filler lid 3-14
Fuel economy 5-33
Fuel economy information 4-35
Fuel octane rating 10-3
Fuel recommendation 10-3
Gauge 2-5
Fuses 8-20
Fusible links 8-20

G

Gas cap 3-14
Gauge 2-3
Engine coolant temperature gauge 2-5
Fuel gauge 2-5
Odometer 2-4
Speedometer 2-4
Tachometer 2-4
General maintenance 9-2
Glove box 2-29
Glove box lock 2-29

H

Hazard warning flasher switch 2-23
Head restraints 1-5
Headlights
Aiming control 2-20
Bulb replacement 8-24
Headlight switch 2-19
Xenon headlights 2-18
Heated seats 2-24
Heater, Engine coolant heater 5-41
Hood, release 3-11
Horn 2-24
How to stop alarm, Vehicle security 2-15

I

Ignition switch 5-7
Automatic transmission models 5-7, 5-10
Key positions 5-8
Immobilizer system 2-15
Indicator lights 2-11
Infiniti Vehicle Immobilizer System, Engine start 5-8
Inside Automatic anti-dazzle mirror 3-17
Inspection/maintenance (I/M) test 10-23
Instrument panel 2-2
Intelligent cruise control system 5-18
Interior light replacement 8-25
Interior lights 2-36
Interior trunk lid release 3-13
ISOFIX child restraint 1-39

INDEX

J

Jump starting 6-9

K

Keys (Electronic ignition key) 3-2

L

Label, Air conditioner specification label 10-13
Label, Emission control information label 10-13
Label, F.M.V.S.S. certification label 10-12
Labels
- Air bag warning labels 1-20
- Engine serial number 10-12
- Vehicle identification number (VIN) 10-11

LATCH system 1-39
License plate, Installing front license plate 10-14
Light
- Air bag warning light 1-20
- Bulb replacement 8-23
- Headlight switch 2-19
- Headlights Bulb replacement 8-24
- Interior lights 2-36
- Personal lights 2-38
- Replacement 8-23
- Trunk light 2-38
- Vanity mirror lights 2-38
- Warning/indicator lights and audible reminders 2-7, 2-11
- Xenon headlights 2-18

Lights, Exterior and interior light replacement 8-25
Loading information (See vehicle loading information) 10-15
Lock
- Door locks 3-3
- Glove box lock 2-29
- Power door lock 3-3
- Trunk lid lock opener lever 3-12

Low fuel warning light 2-9
Low tire pressure warning 2-9

M

Maintenance
- Battery 8-12
- Chassis and body 9-11
- Emission control system 9-11
- General maintenance 9-2
- Inside the vehicle 9-3
- Maintenance information 4-35
- Maintenance precautions 8-2
- Outside the vehicle 9-3
- Periodic maintenance schedules 9-5
- Seat belt maintenance 1-31
- Under the hood and vehicle 9-4

Meters and gauges 2-3
Mirror
- Automatic anti-dazzle inside mirror 3-17
- Outside mirror control 3-17
- Outside mirrors 3-17

N

Net, Cargo net 2-31
New vehicle break-in 5-32
Nissan vehicle Immobilizer System 2-14

O

Odometer 2-4

Oil
Capacities and recommended fuel/lubricants..... 10-2
Changing engine oil 8-8
Changing engine oil filter..... 8-9
Checking engine oil level 8-7
Engine oil 8-7
Engine oil viscosity..... 10-6
Outside mirror control 3-17
Outside mirrors..... 3-17
Overheat, If your vehicle overheats 6-12
Owner's Manual/Service Manual order information. 10-24

P

Parking
Brake check..... 8-18
Parking brake check..... 5-16
Parking brake operation..... 5-16
Parking on hills 5-16
Parking/parking on hills 5-34
Periodic maintenance schedules 9-5
Personal lights..... 2-38
Phone, Car phone or CB radio 4-32
Power
Front seat adjustment 1-2
Power door lock..... 3-3
Power outlet 2-26
Power steering fluid..... 8-10
Power steering system..... 5-35
Power windows 2-31
Pre-tensioner seat belt system 1-18
Precautions
Audio operation precautions..... 4-19
Cruise control precautions..... 5-16
Maintenance precautions 8-2
On child restraints 1-31
On seat belt usage..... 1-22
Precautions on supplemental restraint system..... 1-7
Precautions when starting and driving..... 5-2
Push starting..... 6-12

R

Radio..... 4-17
Car phone or CB radio..... 4-32
Readiness for inspection/maintenance (I/M) test (US only)..... 10-23
Rear door lock, Child safety rear door lock 3-5
Rear power point 2-26
Rear sun shade..... 2-35
Rear window and outside mirror defogger switch..... 2-18
Registering your vehicle in another country..... 10-11
Remote keyless entry system 3-6
Reporting safety defects (US only)..... 10-22
Roadside assistance program..... 6-2
Rollover 5-6

S

Safety
Child seat belts..... 1-25
Reporting safety defects (US only)..... 10-22
Towing safety 10-18
Seat
Belt warning light..... 1-22
Belt warning light and chime 2-11
Seat adjustment, Front power seat adjustment 1-2
Seat belt(s)
Child safety 1-25
Infants and small children 1-26
Injured persons 1-27
Larger children..... 1-26
Pre-tensioner seat belt system 1-18
Precautions on seat belt usage 1-22
Pregnant women 1-27

INDEX

Seat belt cleaning 7-5
Seat belt extenders..... 1-31
Seat belt maintenance..... 1-31
Seat belts 1-22
Seat(s)
Heated seats..... 2-24
Seats..... 1-2
Security systems (Infiniti Vehicle Immobilizer System), Engine start..... 2-15
Security systems (See vehicle security system)..... 2-14
Shift lock release..... 5-15
Shifting
Automatic transmission..... 5-7, 5-10
Shoulder belt height adjustment, For front seats
Spark plugs..... 8-15
Speedometer 2-4
Starting
Before starting the engine..... 5-9
Jump starting..... 6-9
Precautions when starting and driving..... 5-2
Push starting..... 6-12
Starting the engine..... 5-9
Steering
Power steering fluid..... 8-10
Power steering system..... 5-35
Tilting steering wheel..... 3-15
Storage..... 2-28
Sun shade..... 2-35
Rear sun shade..... 2-35
Sun visors..... 3-16
Sunroof 2-33
Electric sunroof..... 2-34
Supplemental air bag warning labels..... 1-20
Supplemental air bag warning light..... 1-20, 2-11
Supplemental front air bag system 1-14
Supplemental restraint system..... 1-7
Precautions on supplemental restraint system..... 1-7
Suspension
Active damper suspension..... 5-35
Active damper suspension mode select switch... 2-25
Switch
Active damper suspension mode select switch... 2-25
Hazard warning flasher switch..... 2-23
Headlight aiming control 2-20
Headlight switch..... 2-19
Ignition switch..... 5-7
Ignition switch automatic transmission models..... 5-7, 5-10
Power door lock switch 3-5
Rear window and outside mirror defogger switch 2-18
Turn signal switch 2-23

T

Tachometer..... 2-4
Temperature gauge, Engine coolant temperature gauge 2-5
Theft (Infiniti Vehicle Immobilizer System), Engine start 2-15
Three way catalyst 5-3
Tilting steering wheel 3-15
Tire
Flat tire..... 6-2
Uniform tire quality grading 10-21
Run-flat tires 6-3, 8-32
Tire chains 8-33
Tire placard..... 10-13
Tire pressure 8-29
Tire pressure information..... 4-36
Tire rotation..... 8-34
Types of tires..... 8-31
Wheels and tires 8-29
Top tether strap child restraints 1-40

Towing
Tow truck towing 6-13
Towing a trailer 10-17
Towing load/specification chart 10-17
Towing safety 10-18
Trailer towing 10-17
Transmission
Automatic transmission fluid (ATF) 8-10
Driving with automatic transmission 5-7, 5-10
Transmission selector lever lock release 5-14
Traveling or registering your vehicle in another country 10-11
Trip computer information 4-34
Trunk
Interior trunk lid release 3-13
Lid lock opener lever 3-12
Light 2-38
Turn signal switch 2-23

U

Underbody cleaning 7-3
Uniform tire quality grading 10-21

V

Vanity mirror lights 2-38
Vehicle
Dimensions and weights 10-10
Dynamic control system (VDC) 5-38
Identification number (VIN) 10-11
Information display 4-34
Loading information 10-15
Vehicle recovery, (freeing a stuck vehicle) 6-15
Ventilators 4-12
Voice-activated control system (VACS) 4-37

W

Warning labels, Air bag warning labels 1-20
Warning light
Air bag warning light 1-20, 2-11
Anti-lock brake 2-7
Brake warning light 2-8
Door open 2-9
Low fuel warning light 2-9
Seat belt warning light and chime 2-11
Warning lights 2-7
Warning, Hazard warning flasher switch 2-23
Warning/indicator lights and audible reminders 2-7
Warning indicator 4-33
Warranty, Emission control system warranty 10-22
Washer switch, Windshield wiper and washer switch 2-17
Washing 7-2
Waxing 7-2
Weights (See dimensions and weights) 10-10
Wheels and tires 8-29
Cleaning aluminum alloy wheels 7-4
Window washer fluid 8-12
Window(s)
Cleaning 7-3
Power windows 2-31
Windshield wiper and washer switch 2-17
Wiper
Windshield wiper and washer switch 2-17
Wiper blades 8-16

X

Xenon headlights 2-18

GAS STATION INFORMATION

FUEL RECOMMENDATION:

In order to maintain engine and exhaust system durability and performance, unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96) must be used.

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 since 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.

For additional information, see "Capacities and recommended fuel/lubricants" in the "10. Technical and consumer information" section.

ENGINE OIL RECOMMENDATION:

- API Certification Mark
- API grade SG/SH, Energy Conserving I & II or API grade SJ, Energy Conserving
- ILSAC grade GF-I & GF-II
- SAE 5W-30 viscosity oil is preferred for all ambient temperatures.

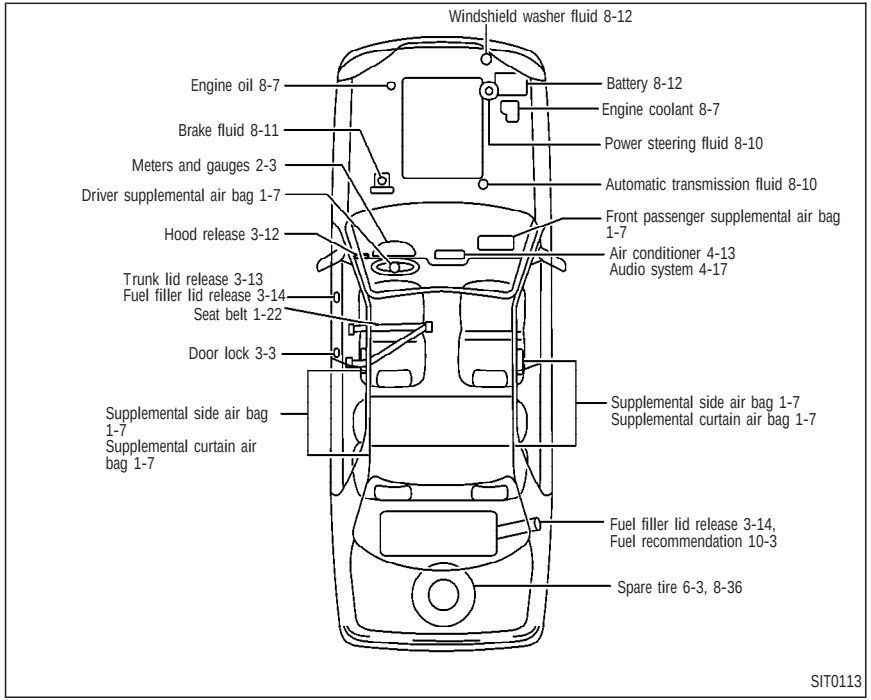
See "Capacities and recommended fuel/lubricants" in the "10. Technical and consumer information" section for engine oil and oil filter recommendation.

COLD TIRE PRESSURES:

See tire placard located on the front face of the rear left wheel housing inside the vehicle.

NEW VEHICLE BREAK-IN PROCEDURES RECOMMENDATION:

During the first 1,000 miles (1,600 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.


Windshield washer fluid 8-12
Engine oil 8-7
Battery 8-12
Engine coolant 8-7
Brake fluid 8-11
Power steering fluid 8-10
Meters and gauges 2-3
Automatic transmission fluid 8-10
Driver supplemental air bag 1-7
Front passenger supplemental air bag 1-7
Hood release 3-12
Air conditioner 4-13
Audio system 4-17
Trunk lid release 3-13
Fuel filler lid release 3-14
Seat belt 1-22
Door lock 3-3
Supplemental side air bag 1-7
Supplemental curtain air bag 1-7
Supplemental side air bag 1-7
Supplemental curtain air bag 1-7
Fuel filler lid release 3-14,
Fuel recommendation 10-3
Spare tire 6-3, 8-36
SIT0113