

FOREWORD

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

The result is a different notion of luxury and beauty. The car itself is important, but so also is the sense of harmony that the car 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 to be found in your Owner's literature portfolio. Always carry it with you when you take your INFINITI to an authorized dealer. The portfolio contents provide complete information about all warranties covering this vehicle, the periodic maintenance required to keep the warranties in effect as well as the INFINITI Roadside Assistance program.

INFINITI is dedicated to providing a satisfying ownership experience for as long as you own your

car. Should you have any questions regarding your INFINITI or your INFINITI dealer, please contact our Consumer Affairs department at 1-800-662-6200. In Hawaii 1-808-836-0848 (Oahu number). In Canada 1-800-363-4520. Thank you.

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.

MODIFICATION OF YOUR VEHICLE

This vehicle should not be modified. Modification could affect its performance, safety or durability, and may even violate governmental regula-

tions. In addition, damage or performance problems resulting from modification may not be covered under INFINITI warranties.

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 five 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.
- **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.

IMPORTANT INFORMATION ABOUT THIS MANUAL

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



WARNING

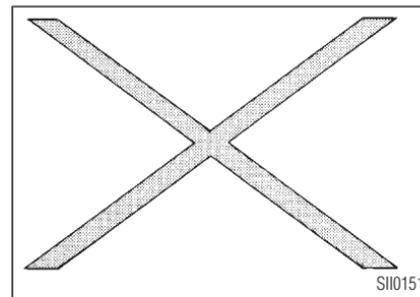
This is used to indicate the presence

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".

ON-PAVEMENT AND OFF-ROAD DRIVING

This vehicle will handle and maneuver differently from an ordinary passenger car, because it has a higher center of gravity for off-road use. As with other vehicles with features of this type, failure to operate this vehicle correctly may result in loss of control or an accident.

Be sure to read “On-Pavement and Off-Road driving precautions” and “Avoiding collision and rollover” in the “Starting and driving” section of this manual.

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TOKYO, JAPAN

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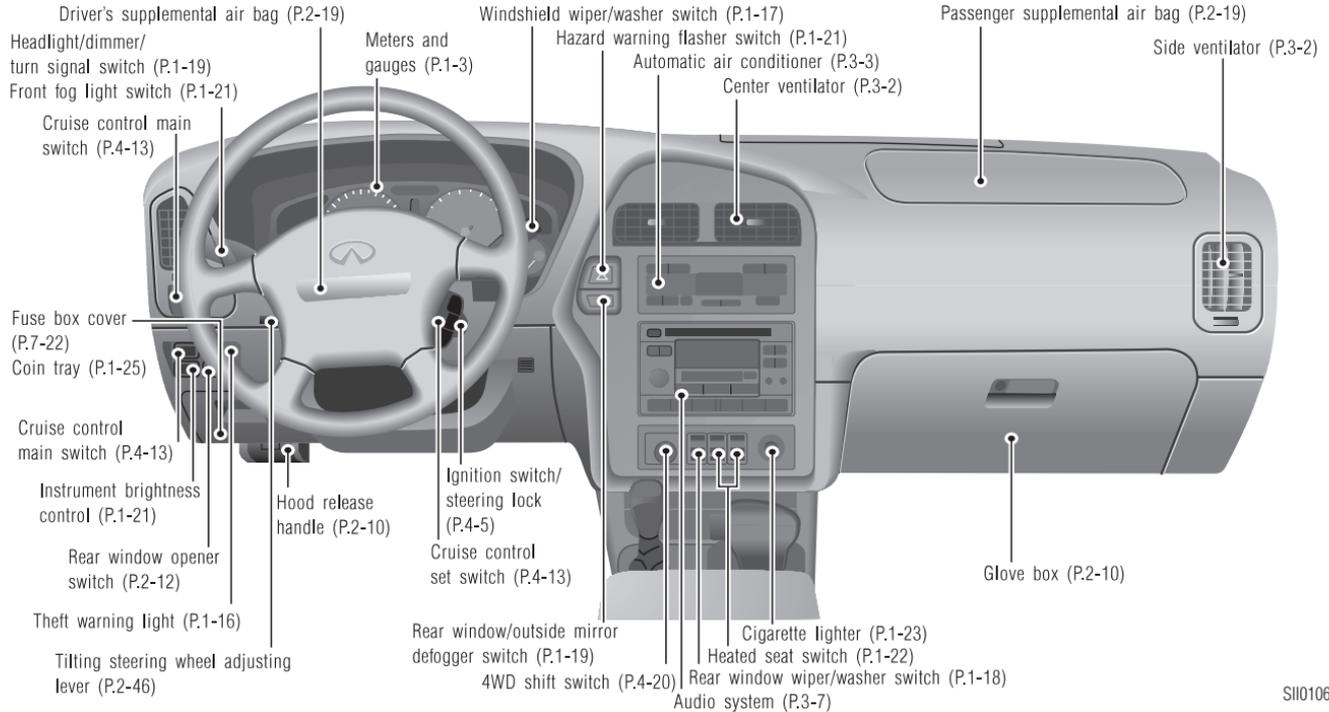
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1 INSTRUMENTS AND CONTROLS

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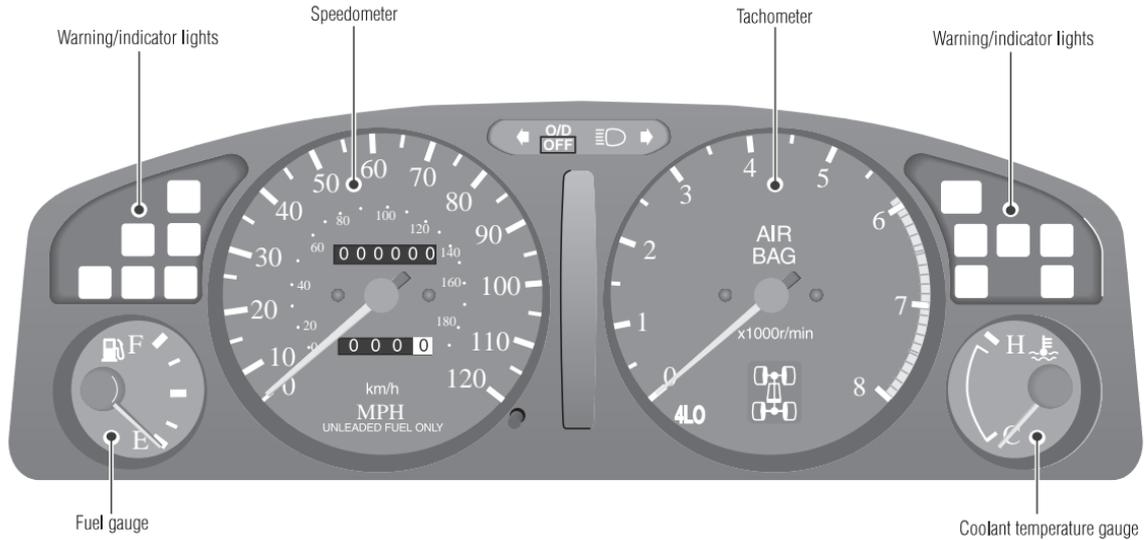
INSTRUMENTS AND CONTROLS



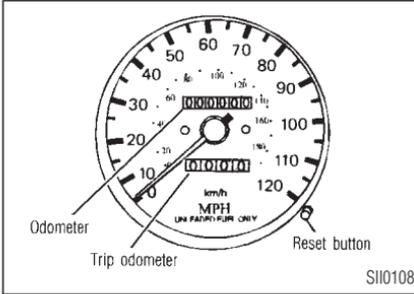
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INSTRUMENTS AND CONTROLS

METERS AND GAUGES



INSTRUMENTS AND CONTROLS



SPEEDOMETER

The speedometer indicates vehicle speed.

ODOMETER

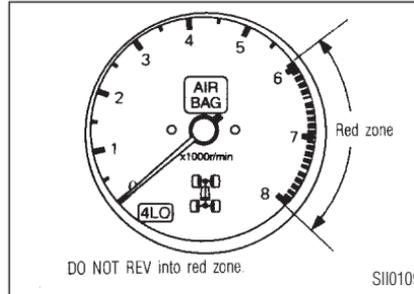
The odometer records the total mileage the vehicle has been driven.

TRIP ODOMETER

The trip odometer records the distance of individual trips. Before each trip, set the trip odometer to zero by pushing the RESET button.

TACHOMETER

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

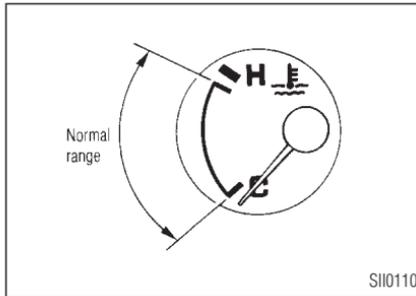


When engine speed approaches the red zone, shift to a higher gear. Operating the engine in the red zone may cause serious engine damage.

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ENGINE COOLANT TEMPERATURE GAUGE

The gauge indicates engine coolant temperature.



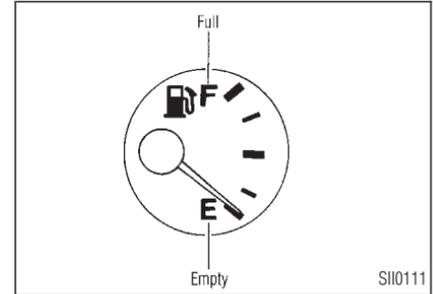
Engine coolant temperature will vary with the outside air temperature and driving conditions.

CAUTION

If the gauge indicates 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 "In case of emergency" section for immediate action required.

FUEL GAUGE

The gauge indicates the APPROXIMATE fuel level in the tank.



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

The gauge needle is designed to remain in approximately the same position, even when the ignition key is turned "OFF".

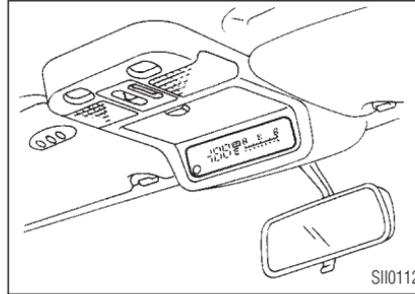
Refill the fuel tank before the gauge registers Empty.

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COMPASS AND OUTSIDE TEMPERATURE DISPLAY (If so equipped)

This unit is a display unit which possesses the following functions:

- Function to measure terrestrial magnetism and indicate heading direction of vehicle
- Function to indicate outside air temperature
- Function to indicate caution for frozen road surfaces



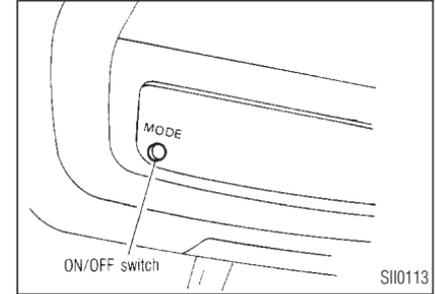
Outside temperature display

Push the switch when the ignition key is in the "ACC" or "ON" position. The outside temperature will be displayed in "°F".

- Selecting the indication range

Push the switch to change from "°F" to "°C".

- If the outside temperature drops below the freezing point, the display indicates ICE.



- **When the outside temperature is between 130°F (55°C) and 158°F (70°C), the display shows 130°F (55°C).**
- **When the outside temperature is lower than -20°F (-30°C) or higher than 158°F (70°C), the display shows only " _ _ " though it is operating. This is not a problem.**

INSTRUMENTS AND CONTROLS



CAUTION

- ***The outside temperature sensor is installed in the front of the radiator. The display may not indicate the precise temperature due to the heat of the road and engine depending on the direction of the wind and driving conditions, etc.***
- ***Use the “ICE” indication for reference only. Confirm the traffic information and road conditions to drive safely.***

Compass display (If so equipped)

Push the switch when the ignition key is in the “ACC” or “ON” position. The direction will be displayed.

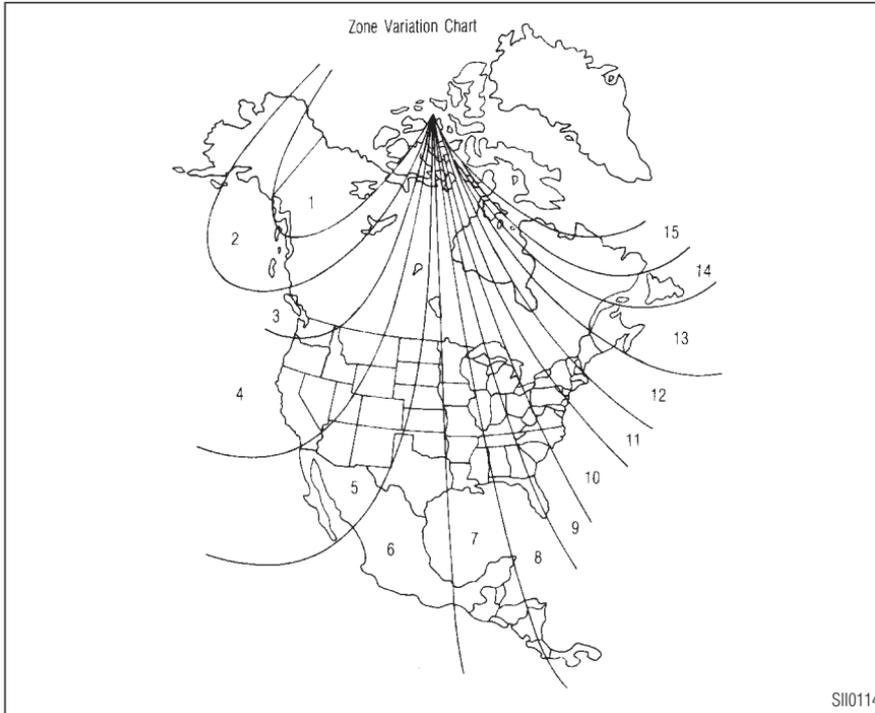
Zone variation change procedure

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

1. Establish your location on the zone map. Record your zone number.
2. Push the “ON/OFF” switch in for five seconds until the current zone entry number is displayed.
3. Press the “ON/OFF” switch repeatedly until the new zone entry number is displayed.

Once the desired zone number is displayed, stop pressing the “ON/OFF” switch and the display will show compass direction within a few seconds.

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- If a magnet is located near the compass or the vehicle is driven where the terrestrial magnetism is disturbed, the compass display may not indicate the correct direction.
- In places where the terrestrial magnetism is disturbed, the correction of the direction starts automatically, extinguishing the direction bar. If turn is made one or two times, the correction is complete and the direction bar comes back on.

Correction functions of the compass display

The compass display is equipped with automatic correction function. If the direction is not shown correctly, carry out the manual correction procedure set out below.

Manual correction procedure

1. Push the switch for about 10 seconds. The direction bar starts blinking.

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2. Drive the vehicle slowly in an open and safe area. The initial correction is completed while turning in one or two turns.



CAUTION

In places where the terrestrial magnetism is extremely disturbed, the initial correction procedure may start automatically.

INSTRUMENTS AND CONTROLS

WARNING/INDICATOR LIGHT AND BUZZER

| | | | | | |
|---|-------------------------------------|---|--|---|---|
|  or BRAKE | Brake warning light |  | Door open warning light | ATP | Automatic transmission park warning light |
|  | Turn signal/hazard indicator lights |  | Seat belt warning light | CRUISE | CRUISE indicator light |
|  | High beam indicator light (Blue) | AIR BAG | Supplemental air bag warning light | 4WD | 4-wheel drive warning light |
|  | Charge warning light | ABS or  | Anti-lock brake system warning light | 4LO | Transfer 4LO position indicator light |
|  | Engine oil pressure warning light | O/D OFF | Overdrive off indicator light |  | 4-wheel drive indicator light |
|  | Low fuel warning light | A/T OIL TEMP | Automatic transmission oil temperature warning light |  or SERVICE ENGINE SOON | Malfunction indicator light |
|  | Low washer fluid warning light | | | | |

Checking bulbs

Turn the ignition key to "ON" without starting the engine. The following lights will come on:

 ,  or **BRAKE** ,  ,  or **SERVICE ENGINE SOON** , **A/T OIL TEMP** , **4WD**

The following lights come on briefly and then

go off:

ABS or  , **AIR BAG** , **O/D OFF** , 

If any light fails to come on, it may indicate a

INSTRUMENTS AND CONTROLS

burned-out bulb or an open circuit in the electrical system. Have the system repaired promptly.

Engine oil pressure warning light

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

The oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See “Engine oil” in the “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. See Section 5, In case of emergency.

Charge warning light

If the light comes on while the engine is running, it may indicate that there is something wrong with the charging system. 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 dealer immediately.

CAUTION

Do not continue driving if the belt is loose, broken or missing. In case of emergency, see Section 5.

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 should be a small reserve of fuel remaining in the tank when the fuel gauge needle reaches “E”.

Door open warning light

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

Supplemental air bag warning light

When the ignition key is in the “ON” or “START” position, the supplemental air bag light will illuminate for about 7 seconds and then turn off. This means the system is operational.

If any of the following conditions occur, the

INSTRUMENTS AND CONTROLS

supplemental air bag needs servicing and your INFINITI must be taken to your nearest authorized INFINITI dealer.

1. The supplemental air bag light goes off within 7 seconds.
2. The supplemental air bag light flashes intermittently or remains on (after 7 seconds).
3. The supplemental air bag light does not come on at all.

Unless checked and repaired, the Supplemental Restraint System may not function properly.

For additional details on the Supplemental Air Bag System, see section 2.



WARNING

If the supplemental air bag warning

light is on, it could mean that the supplemental air bag system will not operate in an accident.



Seat belt warning light and buzzer

The light and buzzer 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 buzzer will sound for about six seconds unless the driver’s seat belt is securely fastened.

Refer to “Seat belts” in the “Pre-driving checks and adjustments” section for precautions on seat belt usage.



Low washer fluid warning light (For Canada)

This light comes on when the washer tank

fluid is at a low level. Add washer fluid as necessary. See the “Do-it-yourself” section.



or



Brake warning light

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

Parking brake indicator

The light comes on when the parking brake is applied.

Low brake fluid warning

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 “Do-it-yourself” section.
2. If the brake fluid level is correct, have the

INSTRUMENTS AND CONTROLS

warning system checked by your INFINITI dealer.



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 could increase your stopping distance and braking will require greater pedal effort as well as pedal travel.***
- ***If the level is below the MINIMUM mark on the brake fluid reservoir, do not drive until the brake system has been checked at an INFINITI dealer.***

ABS

or



Anti-lock brake warning light

The light should turn off within 1 second after turning the ignition switch to "ON". If not, the system is malfunctioning.

If the light comes on while the engine is running, it may indicate there is something wrong with the anti-lock portion of the brake system. In either case, have the system checked by your INFINITI dealer.

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 dealer for repair.

A/T OIL TEMP

Automatic transmission oil temperature warning light

This light comes on when the automatic transmission oil temperature is too high. If the

light comes on while driving, reduce the vehicle speed as soon as safely possible until the light turns off.



CAUTION

Continued vehicle operation when the A/T oil temperature warning light is on may damage the automatic transmission.

ATP

Automatic transmission park warning light

This light indicates that the automatic transmission parking function is not engaged. If the transfer control is not secured in any drive position while the automatic transmission selector lever is in the "P" position, the transmission will disengage and the wheel will not lock.

Shift the transfer control lever into the "H" or

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“4LO” position when the warning light comes on.



WARNING

- **When parking, always make sure that the transfer shift lever is in “H” or “4LO” and the parking brake is set.**
- **If the ATP light is “ON”, this indicates that the automatic transmission “park” position will not function and the transfer shift lever is in neutral.**
- **Failure to engage the transfer shift lever in “H” or “4LO” could result in the vehicle moving unexpectedly, resulting in serious personal injury or property damage.**



Turn signal/hazard indicator lights

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



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.



CRUISE indicator light

The light comes on while the vehicle speed is controlled by the cruise control system.



Overdrive off indicator light

This light comes on when the automatic transmission overdrive switch is set in the off () position.

4WD

4-wheel drive warning light

The 4-wheel drive warning light comes on when the key switch is turned to “ON”. It turns off soon after the engine is started.

If any problem occurs during engine or vehicle operation, the warning light will either remain illuminated or blink.



CAUTION

If the warning light comes on or blinks during operation, have your vehicle checked by an authorized INFINITI dealer as soon as possible.

4LO

Transfer 4LO position indicator light

This light comes on when the transfer shift lever is set in the “4LO” position with ignition key in the “ON” position.

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4-wheel drive indicator light

The light should turn off within 1 second after turning the ignition switch to “ON”.

While the engine is running, the 4-wheel drive indicator light will illuminate the position selected by the transfer shift lever and/or 4WD shift switch.

The 4-wheel drive indicator light will blink while shifting from one drive mode to the other.

Key reminder buzzer

The buzzer will sound if the driver side door is opened while the key is left in the ignition switch. Remove the key and take it with you when leaving the vehicle.

Light reminder buzzer

A buzzer will sound when the driver side door is opened if the light switch is turned on unless the ignition key is in the “ON” position.

Turn the light switch off when you leave the vehicle.

Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it will make a high pitched scraping sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the warning sound is heard when the vehicle is moving, whether or not the brake pedal is depressed.



or



Malfunction indicator light (MIL)

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

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

- Malfunction indicator light on steady —

An emission control system malfunction has been detected. Have the vehicle inspected by an authorized INFINITI dealer. You do not need to have your vehicle towed to the dealer.

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

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

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

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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, which may affect your warranty coverage.

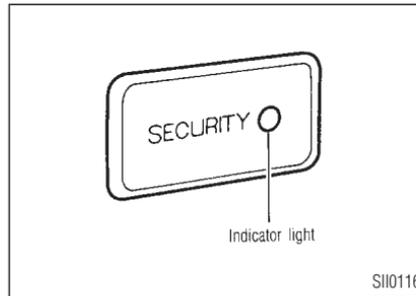
Some conditions may cause the malfunction indicator light to come on steady or blink. Example are as follows:

- vehicle ran out of fuel, which caused the engine to misfire.
- fuel filler cap was left off or improperly installed, allowing fuel to evaporate into the atmosphere.

If you suspect that you experienced one or

both of the above conditions, drive the vehicle to an authorized INFINITI dealer and have the vehicle inspected. Avoid any unnecessary diagnosis during the service by informing the dealer of the conditions listed above that may have occurred.

THEFT WARNING



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

How to activate the theft warning system

1. Close all windows.
2. Remove the key from the ignition switch.
3. Close and lock all doors, hood, back door and back door glass hatch. The doors can be locked either with or without the key.

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

4. Confirm that the indicator light comes on. The light will glow for about 30 seconds and then blink. The system is now activated. If, during this 30 second time period, the door is unlocked by the key or multi-remote controller, or the ignition key is turned to "ACC" or "ON", the system will not activate.

- **If the key is turned slowly when locking the door, the system may not activate. Furthermore, if the key is turned excessively to the unlock po-**

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sition, the system may be deactivated when the key is removed. If 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, back door and back door glass hatch locked and ignition key off. Turn the ignition key to “ACC” to turn the system off.

Theft warning system operation

The warning system will give the following alarm:

- The headlights blink and the horn sounds intermittently. In addition, the starter motor will not operate.
- The alarm automatically turns off after 2 to 3 minutes; however, the alarm will reactivate if the vehicle is tampered with again.

The alarm is activated by:

- Unlocking the door or back door without using the key or multi-remote controller. (Even if the door is opened by releasing the door inside lock knob, the alarm is activated.)
- Opening the hood. (Even if the hood is opened by the hood release handle, the alarm is activated.)
- Opening the back door glass hatch (Even if the back door glass hatch is opened by the opener switch, the alarm is activated.)

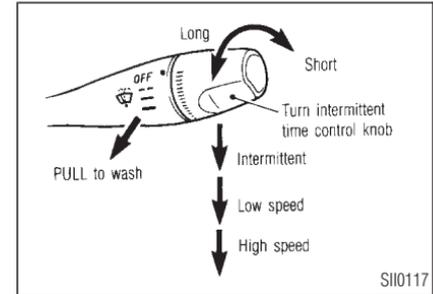
How to stop alarms

The alarm will stop only by unlocking a door or back door with the key or multi-remote controller. The alarm will not stop if the ignition switch is turned to “ACC” or “ON”.

If the system does not operate as de-

scribed above, have it checked by your INFINITI dealer.

WINDSHIELD WIPER AND WASHER SWITCH



The windshield wiper and washer operates when the ignition key is in the “ACC” or “ON” position.

Push the lever down to operate the wiper.

Intermittent operation can be adjusted from 4 to 12 seconds by turning the knob.

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

CAUTION

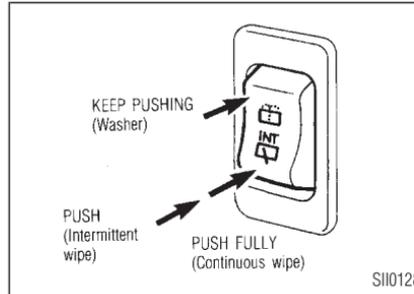
The following could damage the washer system:

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

WARNING

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

REAR WINDOW WIPER AND WASHER SWITCH



To operate the wiper, push the switch to the “

To operate the washer, hold the switch down to the “

Then the wiper will also operate several times.

CAUTION

- *Do not operate the washer continuously for more than 30 seconds.*
- *Do not operate the washer if reservoir tank is empty.*
- **The rear window wiper will not operate when the rear window is open.**
- **The rear window wiper will not operate if the rear window is closed with the wiper switch “ON”. To operate the window wiper, turn the switch to “OFF” and then to “ON”.**
- **The rear window will not open while the rear window wiper is operating.**

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The clearance, 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.

Daytime running light system (For Canada)

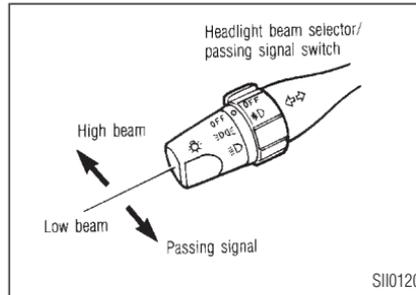
The headlights automatically illuminate at a reduced intensity when the engine is started with the parking brake released. The daytime running lights operate with the headlight switch in the “OFF” position or in the “” position. Turn the headlight switch to the “” position for full illumination when 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 will not be on. It is necessary at dusk to turn on your headlights. Failure to do so could cause an accident injuring yourself and others.



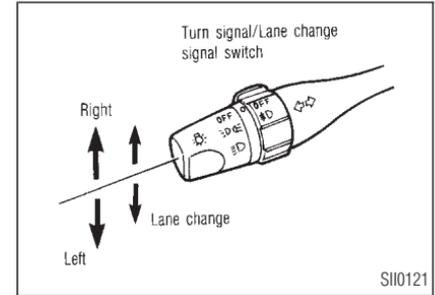
To select the high beam, push the lever for-

ward. Pull it back to select the low beam.

Passing signal

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

Turn signal



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

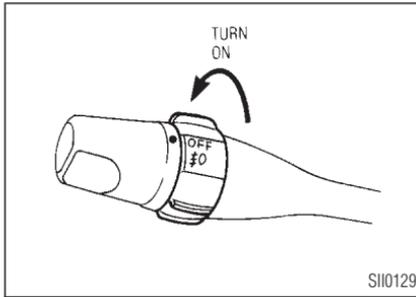
Lane change signal

To indicate a lane change, move the lever up

INSTRUMENTS AND CONTROLS

or down to the point where lights begin flashing.

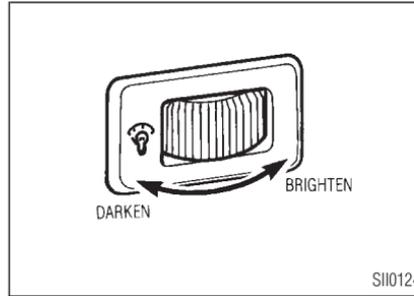
FRONT FOG LIGHT SWITCH



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

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

INSTRUMENT BRIGHTNESS CONTROL



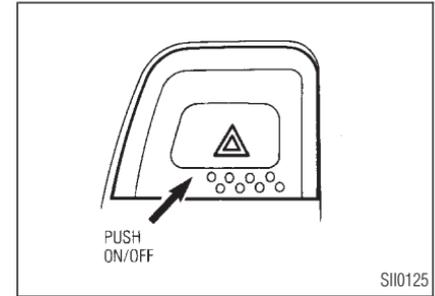
The instrument brightness control operates when the head light switch is in the "☸" or "☸" position.

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

When the control is turned to the right until a click sound is heard, the light intensity will be at maximum. When the control is turned to the

left until a click sound is heard, the light will be turned off.

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.

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

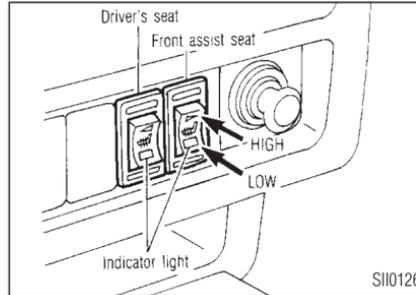
INSTRUMENTS AND CONTROLS

WARNING

- **When stalled or stopped on the roadway under emergency conditions, move the vehicle well off the road.**
- **Do not use the switch 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 switch is operating.**

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

HEATED SEATS (If so equipped)



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

1. Start the engine.

The battery could run down if the heater is operated while the engine is not running.

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

CAUTION

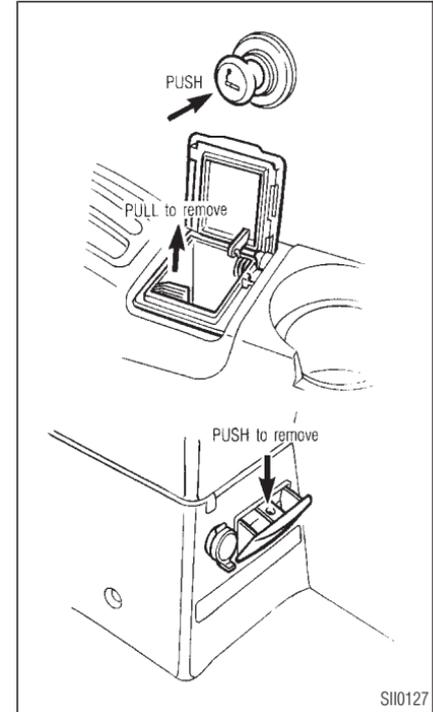
- **Do not use the seat heater for a long time or when no one is seated there.**
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**

INSTRUMENTS AND CONTROLS

- **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 immediately wiped up 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 dealer.**

CIGARETTE LIGHTERS AND ASHTRAYS

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



INSTRUMENTS AND CONTROLS

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

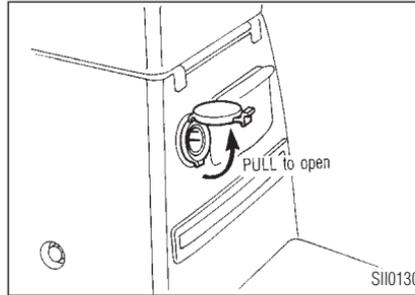
The cigarette lighter should not be used while driving in order that full attention may be given to the driving operation.



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.

POWER SOCKET



CAUTION

- *Take care as the socket and plug may be hot during or immediately after use.*
- *This power socket is not designed for use with a cigarette lighter unit.*

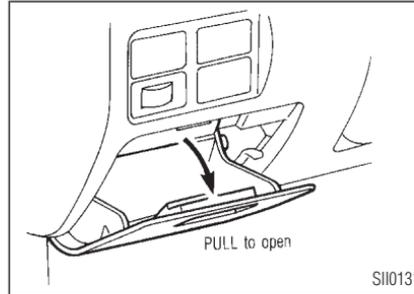
- *Do not use with accessories that exceed a 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.*
- *Use this power socket with the engine running. (If the engine is stopped, this could result in a discharged battery.)*
- *Avoid using when the air conditioner, headlights or rear window defogger is on.*
- *When not in use, be sure to close the cap. Do not allow water to contact the socket.*
- *Before inserting or disconnecting a plug, be sure to turn off the power switch of electrical accessory being used or the ACC power*

INSTRUMENTS AND CONTROLS

of the vehicle.

- **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.**

COIN TRAY

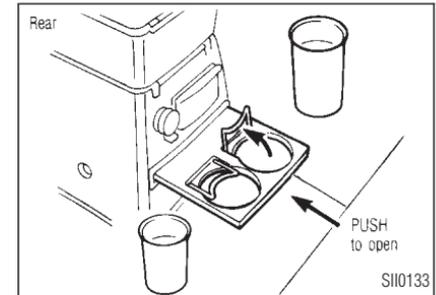
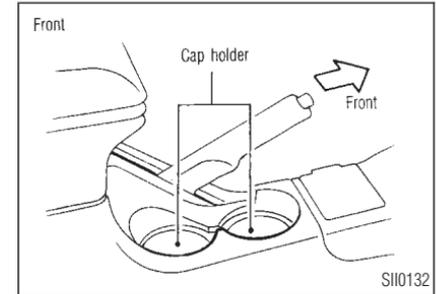


WARNING

The coin tray should not be used while driving in order that full attention may be given to the driving operation.

Do not place valuable items in the tray.

CUP HOLDER



INSTRUMENTS AND CONTROLS

To open, push the cup holder.

To close, fully push the cup holder.

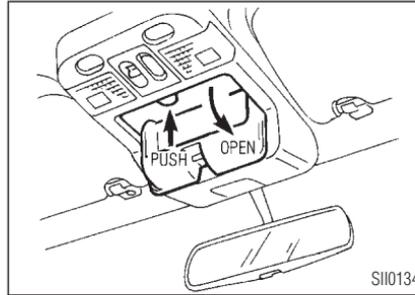
WARNING

The cup holder should not be used while driving in order that full attention may be given to the driving 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.*

GLASSES CASE



The glasses case can be opened by pushing the button.

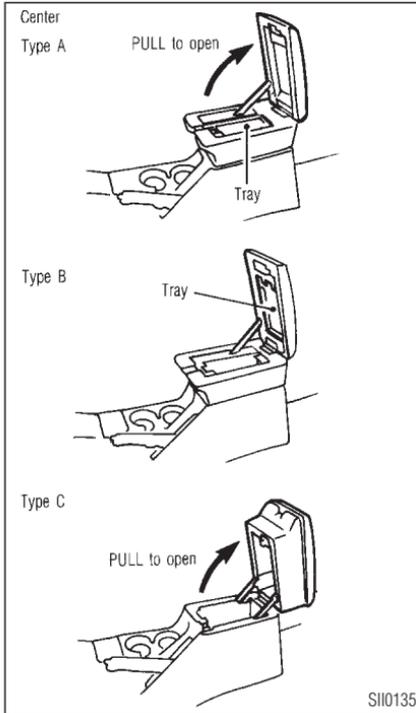
WARNING

The glasses case should not be used while driving in order that full attention may be given to the driving operation.

CAUTION

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

INSTRUMENTS AND CONTROLS

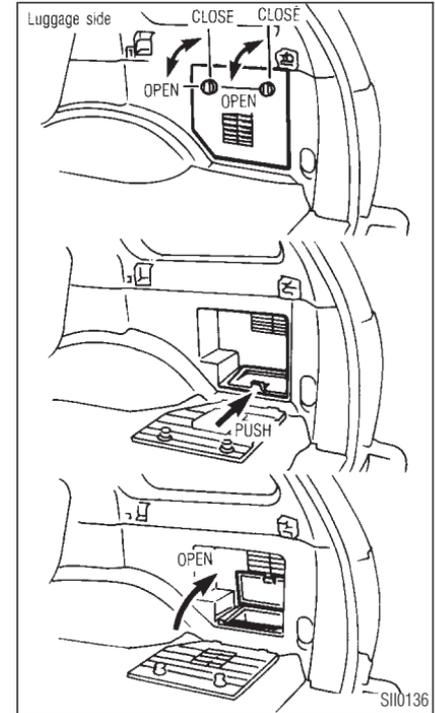


CONSOLE BOX

WARNING

- *The center console box should not be used while driving in order that full attention may be given to the driving operation.*
- *Keep the center console box lid closed while driving to prevent injury in an accident or a sudden stop.*

Do not place valuable items in the center console box.



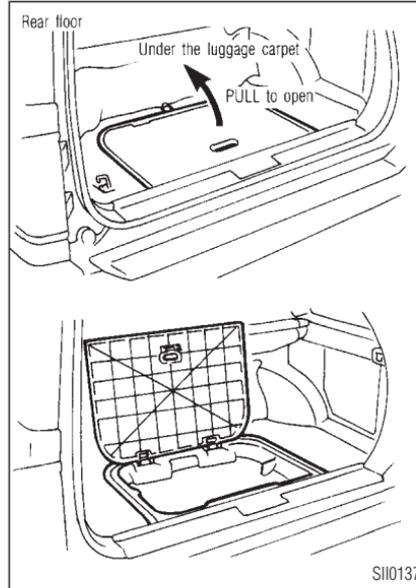
INSTRUMENTS AND CONTROLS

WARNING

Keep luggage side console box lids closed securely while driving to prevent injury in an accident or sudden stop.

Do not place valuable items in the luggage side console box.

LUGGAGE BOARD AND BOX



WARNING

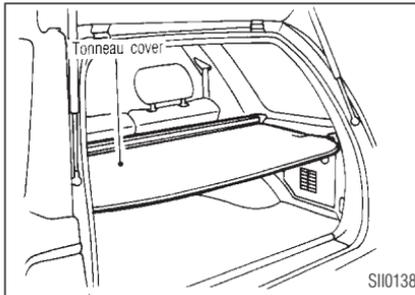
- *Make sure the luggage board closes securely.*
- *Do not drive with the board removed.*
- *Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.*
- *Never allow anyone to ride in the luggage area or on the rear seat when it is in the fold-down position.*
- *It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding*

INSTRUMENTS AND CONTROLS

in these areas are more likely to be seriously injured or killed.

- *Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.*

TONNEAU COVER



The tonneau cover keeps the luggage compartment contents hidden from the outside.



WARNING

- **Never put anything on the tonneau cover, no matter how small. Any object on it could cause an injury in an accident or sudden stop.**
- **Do not leave the tonneau cover in the vehicle with it disengaged from the holder.**
- **Properly secure all cargo to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.**

POWER WINDOW

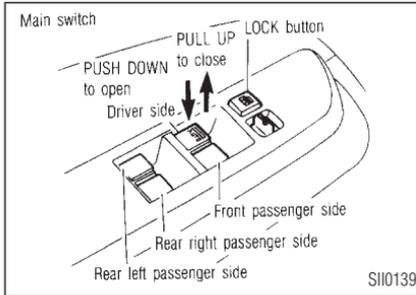


WARNING

- **Make sure that all passengers have their hands, etc. inside the vehicle before closing the windows.**
- **Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls and become trapped in a window. Unattended children could become involved in serious accidents.**

The power windows only operate when the ignition key is in the "ON" position.

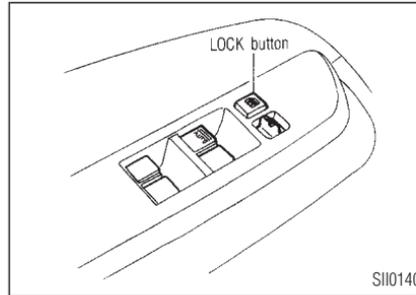
INSTRUMENTS AND CONTROLS



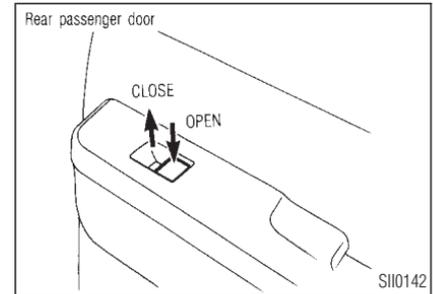
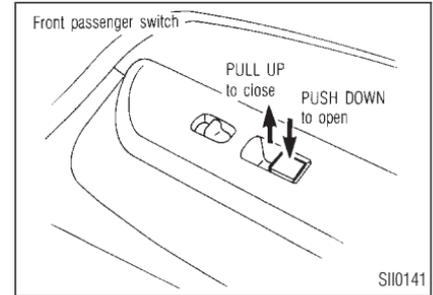
To open or close the window, push down or pull up the switch and hold it. The main switch (driver side switches) will open or close all the windows.

Locking passenger's window

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

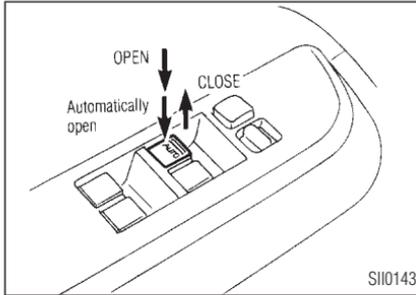


The passenger side switch will open or close only the corresponding window. To open or close the window, hold the switch down or up.



INSTRUMENTS AND CONTROLS

AUTOMATIC OPERATION



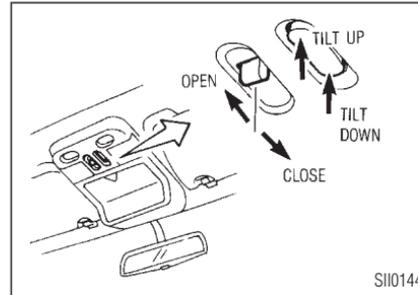
To fully open the driver side window, completely press down the switch and release it; it need not be held. The window will automatically open all the way. To stop the window, just pull up the switch toward the "CLOSE" side.

A light press on the switch will cause the window to open until the switch is released.

SUNROOF (If so equipped)

The sun roof will only operate when the ignition key is in the "ON" position.

Sliding the sunroof



To open the roof, keep pressing the switch to the "←" side.

To close the roof, keep pressing the switch to the "→" side.

Tilting the sunroof

To tilt up, first close the sunroof, then keep

pushing the "↑" side of the tilt switch.

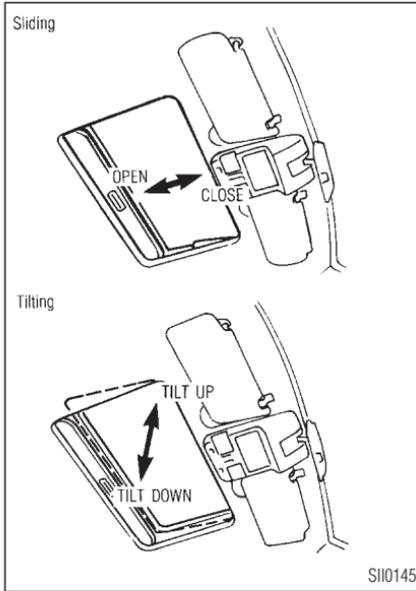
To tilt down the sunroof, keep pushing the "↓" side.

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.

INSTRUMENTS AND CONTROLS



WARNING

- *In an accident you could be thrown from the vehicle through an open sunroof. Always use seat belts and child restraints properly.*
- *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 any heavy object on the sunroof or surrounding area.*

If the sunroof does not close

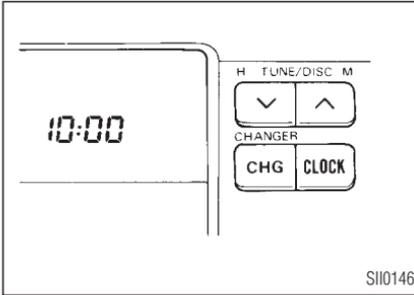
Have your INFINITI dealer check and repair the sunroof.

CLOCK

The digital clock displays time when the ignition key is in "ACC" or "ON".

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

INSTRUMENTS AND CONTROLS



Clock set (Adjustment)

Depressing the "CLOCK" and the "∨" buttons together will set hours. Depressing the "CLOCK" and "∧" buttons together will set minutes.

Clock operation

By pressing the "CLOCK" button, you can alternate the clock and the radio/cassette tape options in the display.

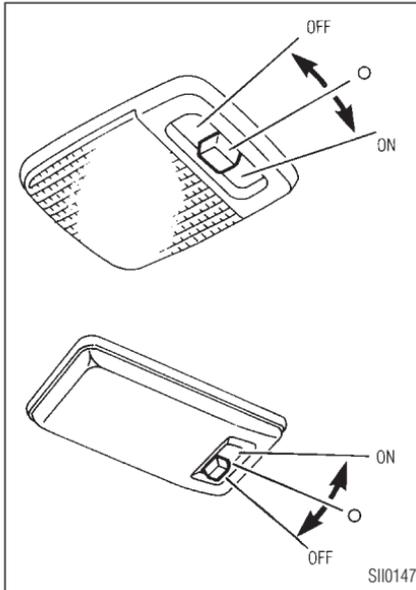
Clock priority mode

In this mode the clock will be shown in the display. If any radio, cassette tape or CD functions are activated, the radio, cassette or CD display will illuminate for ten seconds then return to the clock mode.

After clock adjustment, the radio is in the clock priority mode.

INSTRUMENTS AND CONTROLS

INTERIOR LIGHT



The interior light has a three-position switch.

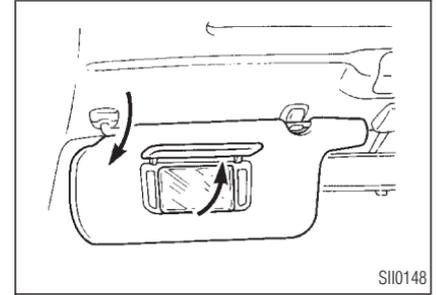
The interior light will operate regardless of ignition key position.

- When the switch is in the “OFF” position, the interior light will not illuminate, regardless of door position.
- When the switch is in the center “O” position, the light will illuminate when a door is opened.
- When the switch is in the “ON” position, the interior light will illuminate, whether any door is open or closed.

CAUTION

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

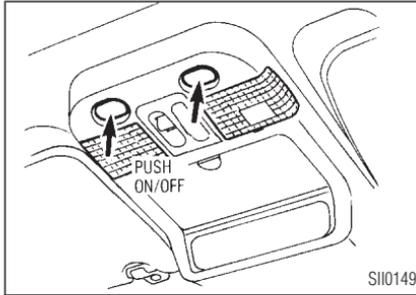
VANITY MIRROR LIGHTS



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

INSTRUMENTS AND CONTROLS

PERSONAL LIGHT



CAUTION

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

INTEGRATED HomeLink® TRANSMITTER (If so equipped)

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

THE INTEGRATED HomeLink® TRANSMITTER:

- will operate garage doors, gates, home/office lighting systems and security systems by storing and transmitting the programming information of your current hand-held transmitters.
- is built-in and powered by your vehicle's battery and charging system. No separate batteries are necessary.

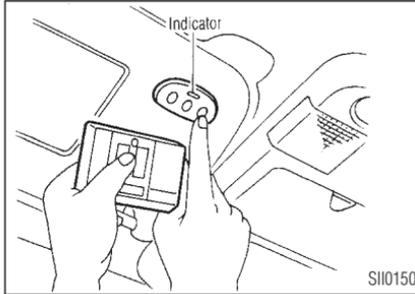


WARNING

Do not use this Integrated HomeLink® Transmitter 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.

INSTRUMENTS AND CONTROLS

PROGRAMMING THE HomeLink® TRANSMITTER



WARNING

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 Integrated HomeLink® Transmitter may not work with older garage door openers that do not meet current Federal Consumer Safety Standards.

1. Test the Integrated HomeLink® Transmitter by pressing any button. The red indicator light should come on. If you have previously programmed a button proceed to step 3.
2. Clear all channels on the Integrated HomeLink® Transmitter by holding down both outside buttons (#1 & #3) until the red light begins to flash rapidly (approximately 20 seconds). Then release both buttons.
3. Select which of the three Integrated HomeLink® Transmitter buttons you want to program.
4. Hold your hand-held transmitter against the bottom surface of the Integrated HomeLink® Transmitter so that you can still see the red indicator light.
5. Press the desired button until the red indicator light flashes slowly. Do not release the button. Continue holding and press the hand-held transmitter button through step 6.
6. Hold down both buttons until the red indicator light on the Integrated HomeLink® Transmitter flashes rapidly (This may take 1-90 seconds). Then release both buttons. The rapid flashing means that the transmitter has been successfully programmed to match your

INSTRUMENTS AND CONTROLS

hand-held transmitter. You can now use the Integrated HomeLink® Transmitter instead of your hand-held transmitter.

Note to Canadian users:

Prior to 1992, D.O.C. regulations required many hand-held transmitters to stop transmitting after one or two seconds, even though you continue to hold down the button. If you think you have one of these hand-held transmitters, you should press and re-press the transmitter button every 2 seconds without ever releasing the integrated HomeLink® Transmitter button. The indicator light on the Integrated HomeLink® Transmitter should blink rapidly indicating a successful programming procedure. If it returns to the slow blink of program mode, continue to periodically reactivate your hand-held transmitter until a successful programming procedure is indicated by the rapidly flashing indicator light.

OPERATING THE TRANSMITTER

To operate, simply press the appropriate button on the Integrated HomeLink® Transmitter. The red indicator light illuminates while the signal is being transmitted. The effective transmission range of the Integrated HomeLink® Transmitter may differ from your hand-held transmitter.

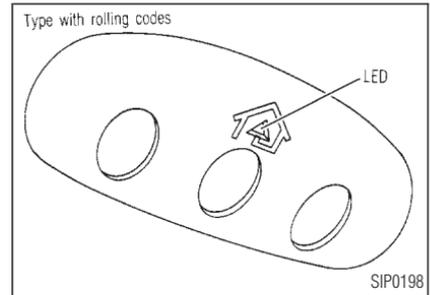
PROGRAMMING PROBLEM DIAGNOSIS

Be sure to keep your original hand-held transmitter for possible reprogramming if necessary.

- Make sure batteries in the hand-held transmitter are fully charged.
- Hold your hand-held transmitter against the bottom surface of the Integrated HomeLink® Transmitter so that you can still see the red indicator light.

- Hold buttons for duration of the programming without interruption.
- Rotate your hand-held transmitter end-over-end and program again. For best results, place the end opposite the battery compartment against the Integrated HomeLink® Transmitter when programming.

ROLLING CODES (If so equipped)



If your hand held transmitter appears to train

INSTRUMENTS AND CONTROLS

to the HomeLink® Transmitter, but does not open your garage door, and your garage door opener was manufactured after 1995, your garage door opener may have a “Code Protected” or “Rolling Code” feature. This type of system will change the “code” of your garage door opener every time you open or close your garage door.

To determine if you have one of these systems, depress the button on the HomeLink® Transmitter that you have just programmed. If the LED on the HomeLink® Transmitter flashes rapidly for 1 to 2 seconds, then remains on, your garage door opener has a rolling code system.

To operate your “Rolling Code” garage door opener from your HomeLink® Transmitter, follow these steps:

1. Program your hand held transmitter to the HomeLink® Transmitter by following the procedures outlined above (if not yet programmed).
2. Program your garage door opener receiver to recognize your HomeLink® Transmitter (The HomeLink® Transmitter follows the same procedure to train to the receiver as your hand held transmitter did when it was first installed):
 - a) Remove the cover panel from your garage door opener receiver. The receiver should be located by the garage door opener motor.
 - b) Locate the training button on the garage door opener receiver. The exact location and color of the button may vary by garage door opener brand. If you have difficulty locating the training button, reference your garage door opener manual. If you have difficulty programming your garage door opener equipped with a rolling code system to recognize the HomeLink® Transmitter with the “Rolling Code” feature, call INFINITI Consumer Affairs Department.
 - c) Press the training button on the garage door opener receiver for 1 to 2 seconds.
 - d) Return to the HomeLink® Transmitter in the vehicle, and depress the programmed HomeLink® button for the duration of the fast blink on the HomeLink® Transmitter (1 to 2 seconds). Release the button, and repress to confirm that the system has trained.
 - e) Your garage door opener should now recognize your HomeLink® Transmitter. You may use either your HomeLink® Transmitter or your original hand held transmitter to open your garage door.

INSTRUMENTS AND CONTROLS

CLEARING THE PROGRAMMING INFORMATION

Should you sell your vehicle, be sure to clear the channels of the Integrated HomeLink® Transmitter. To clear the channels, simultaneously hold down the outside two buttons (#1 & #3) until the red indicator light begins to flash rapidly (approximately 20 seconds). This will clear all three buttons. Individual buttons cannot be cleared, but can be reprogrammed at any time by following the programming procedures described above.

IF YOUR VEHICLE IS EVER STOLEN

If your vehicle has been stolen, you should change the codes of any device that was programmed into the Integrated HomeLink® Transmitter as soon as possible. Consult the owners manual of each device, or call the manufacturer or dealer of those devices.

When your vehicle is recovered, you will need to reprogram the Integrated HomeLink® Transmitter 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

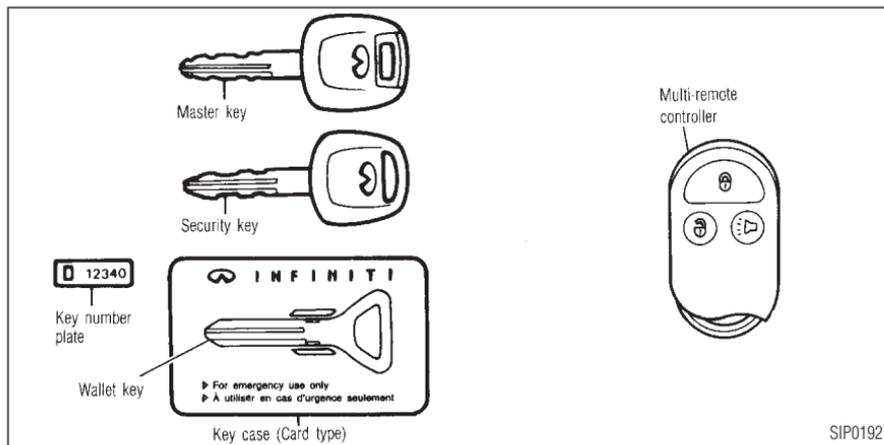
FCC I.D.: CB2V67690

2 PRE-DRIVING CHECKS AND ADJUSTMENTS

| | | | |
|--|------|---|------|
| Key | 2-2 | Supplemental air bag warning light | 2-27 |
| Door locks | 2-3 | Seat belts | 2-29 |
| Multi-remote control system | 2-5 | Child restraints for infants and small children | 2-37 |
| Hood release | 2-10 | Outboard shoulder/lap belt..... | 2-40 |
| Glove box lock | 2-10 | Tilting steering wheel | 2-46 |
| Back door lock | 2-11 | Sun visors | 2-46 |
| Rear window lock..... | 2-11 | Outside mirror remote control | 2-47 |
| Rear window opener | 2-12 | Foldable outside mirrors | 2-48 |
| Fuel filler lid lock | 2-12 | Inside mirror | 2-48 |
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| Rear seats | 2-17 | Luggage hooks..... | 2-49 |
| Supplemental restraint system (Supplemental air bag system)..... | 2-19 | Luggage rack..... | 2-51 |
| Warning labels | 2-26 | | |

PRE-DRIVING CHECKS AND ADJUSTMENTS

KEY



The master key and wallet key can be used for all the locks. The security key cannot be used for the glove box lock. To protect belongings when you leave a key with someone, give them the security key only. **Never leave this key in the vehicle.**

Record the key number on the key number plate and keep it in a safe place (such as your wallet), NOT IN THE CAR. A key number plate is supplied with your key. Keep the plate in a safe place. INFINITI does not record key numbers so it is very important to keep track

of your key number plate.

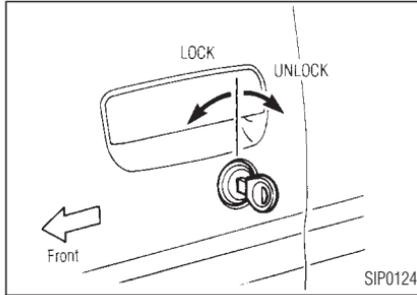
A key number is only necessary when you have lost all keys and do not have one to duplicate from. If you still have a key, this key can be duplicated by your INFINITI dealer or a lock smith shop.

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.

PRE-DRIVING CHECKS AND ADJUSTMENTS

DOOR LOCKS

Locking front doors with key

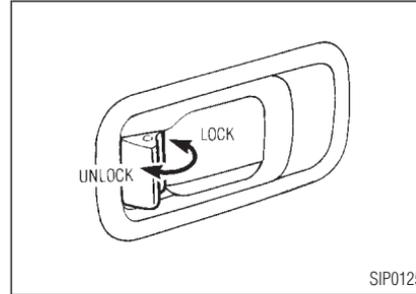


To lock the door, turn the key toward the front of the vehicle.

To unlock, turn it toward the rear.

Locking the front door will simultaneously lock the other doors. (Power door lock type B)

Locking the doors without key



To lock 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 doors opened and with the key in the ignition. If this is attempted, all doors will unlock. (Power door lock type B)



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**

PRE-DRIVING CHECKS AND ADJUSTMENTS

could become involved in serious accidents.

CHILD SAFETY REAR DOOR LOCK



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

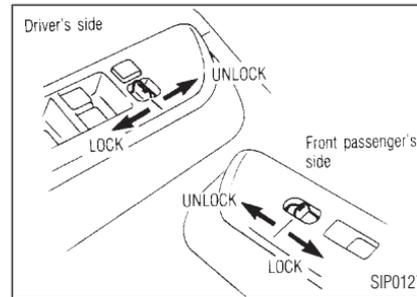
When the lever is in the lock position,

the rear door can be opened only from the outside.

POWER DOOR LOCK

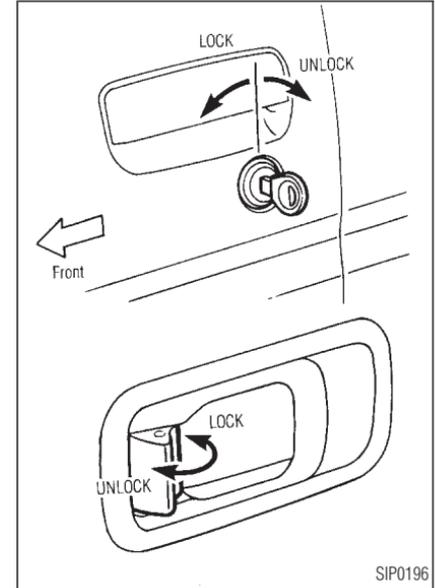
The power door lock system allows you to lock or unlock all doors simultaneously.

Type A



- Operating the lock-unlock switch will lock or unlock all doors including the back door.

Type B



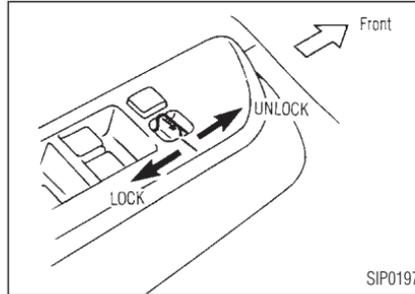
- Turning the front door key to the front of

PRE-DRIVING CHECKS AND ADJUSTMENTS

the vehicle will lock all doors including the back door.

- Turning the front 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 including the back door.
- Pushing the front door lock knob in will lock all doors including the back door.

If the front doors are open with the key in the ignition when the inside lock knob is set to the lock position, all the door knobs will lock then quickly unlock automatically.



- Operating the lock-unlock switch will lock or unlock all doors including the back door.



WARNING

- **Before opening the any door, always look for and avoid oncoming traffic.**
- **Do not leave children unattended in the vehicle. They could un-**

knowingly activate switches or controls. Unattended children could become involved in serious accidents.

MULTI-REMOTE CONTROL SYSTEM

It is possible to lock/unlock all doors including the back door.

Be sure to remove the key from the vehicle before locking the doors and leaving it.

The remote controller can operate at a distance of approximately 49 ft (15 m) from the vehicle. (The effective distance depends upon the conditions around the vehicle.)

As many as four remote controllers can be used with one vehicle. For information concerning the purchase and use of

PRE-DRIVING CHECKS AND ADJUSTMENTS

additional remote controllers, contact your INFINITI dealer.



CAUTION

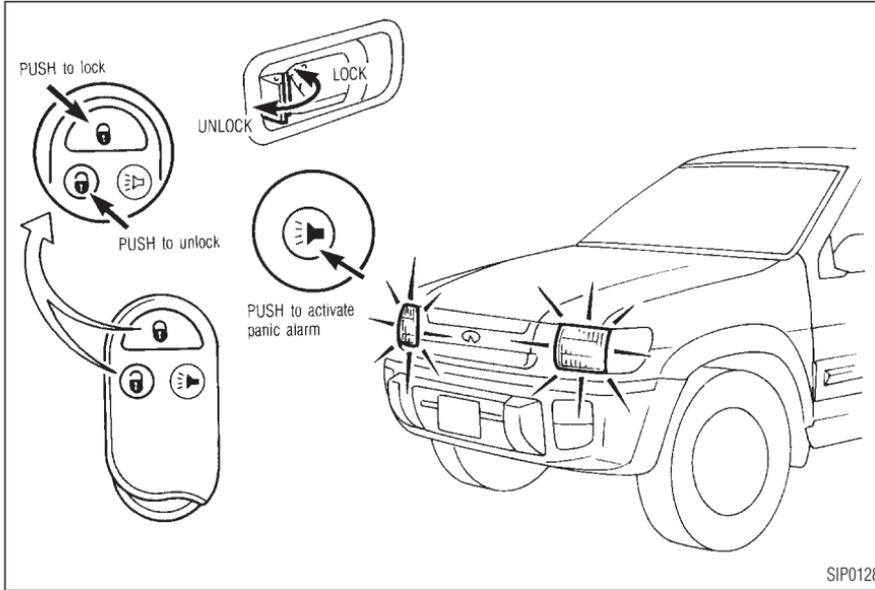
Listed below are conditions or occurrences which will damage the remote controller.

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

Locking doors

1. Remove the ignition key.
 2. Close all the doors.
 3. Push the “” button on the multi-remote controller.
 4. All the doors will lock.
 5. The hazard indicator flashes twice.
- When the “” button is pushed with all doors locked, the hazard indicator flashes twice as a reminder that the doors are already locked.

PRE-DRIVING CHECKS AND ADJUSTMENTS



Unlocking doors

1. Push the “” button on the multi-remote controller.
2. Only the driver side door will unlock. Push the “” button on the multi-remote controller again within 5 seconds.
3. All doors will unlock.
4. The interior light will stay on for 30 seconds when the interior light switch is in the center “” position.

The interior light can be turned off without waiting for 30 seconds by inserting the key into the ignition or by locking the doors with the multi-remote controller or by pushing the interior light button.

Using the panic alarm

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

PRE-DRIVING CHECKS AND ADJUSTMENTS

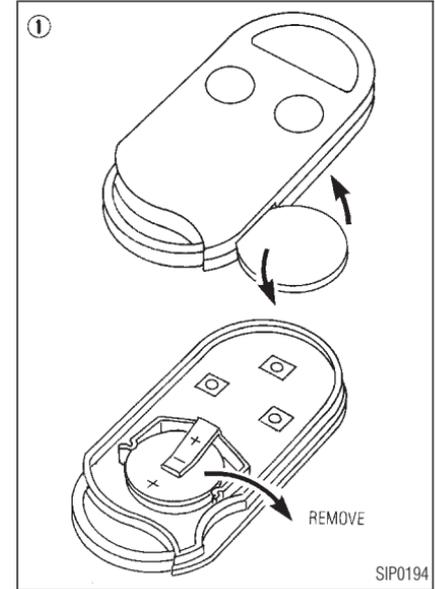
1. Push the “” button on the remote controller for **longer than 1.5 seconds**.
2. The theft warning alarm and headlights will stay on for 30 seconds.
3. The alarm will stop when any of the key functions are used. For example, when the “” or the “” button is pushed, or the “” button is pushed for longer than 1.5 seconds on the multi-remote controller, the panic alarm function will be cancelled.

The remote controller will not function.

- **When the key is inserted into the key switch.**
- **When the battery in the remote controller is dead.**
- **The distance between the remote controller and vehicle is more than approx. 49 ft (15 m).**
- **When one of the doors is ajar, only**

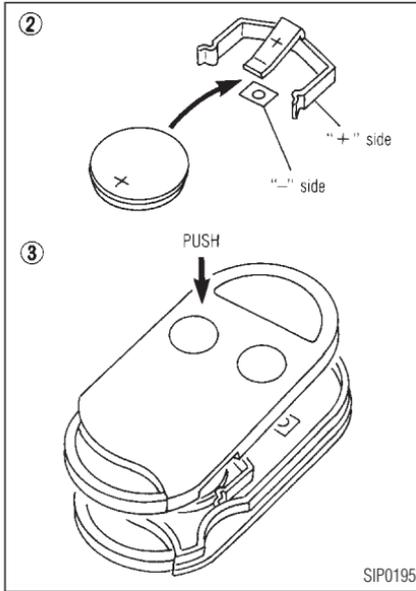
the unlock function can be operated.

BATTERY REPLACEMENT



1. Open the lid using a coin.

PRE-DRIVING CHECKS AND ADJUSTMENTS



2. Replace the battery with a new one. Insert the battery as illustrated above.

Recommended battery: Sanyo CR2025 or equivalent.

3. Close the lid securely.
4. Press the “” button, then the “” button two or three times to check the multi-remote controller operation.

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

- **An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.**
- **The remote controller is waterproof; however, if it does get wet, immediately wipe completely dry.**
- **When changing batteries, do not let dust or oil get on the controller.**

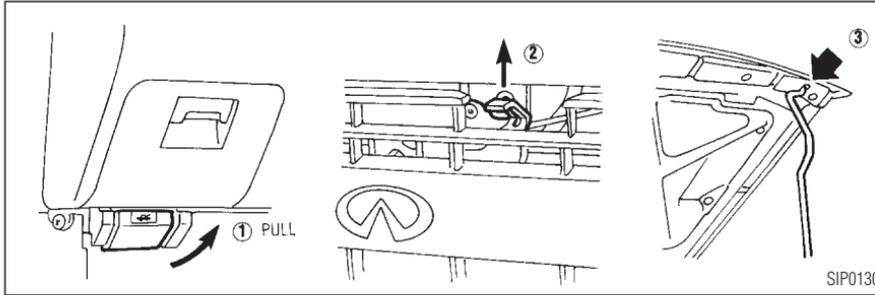
FCC Notice:

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.

PRE-DRIVING CHECKS AND ADJUSTMENTS

HOOD RELEASE



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. Insert the assist bar into the slot in the front edge of the hood.
4. When closing the hood, reset the assist bar to its original position, then slowly close the hood and make sure it locks into place.



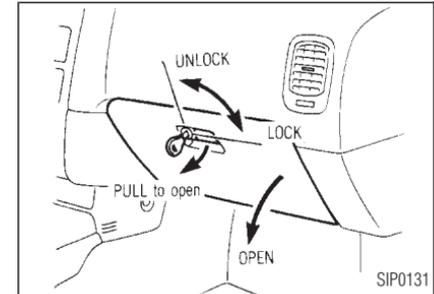
WARNING

- **Make sure the hood is completely closed and latched before driving. Failure to do so could cause**

the hood to fly open and result in an accident.

- *If you see steam or smoke coming from the engine compartment, to avoid injury, do not open the hood.*

GLOVE BOX LOCK



When locking or unlocking the glove box, use the master key.

PRE-DRIVING CHECKS AND ADJUSTMENTS

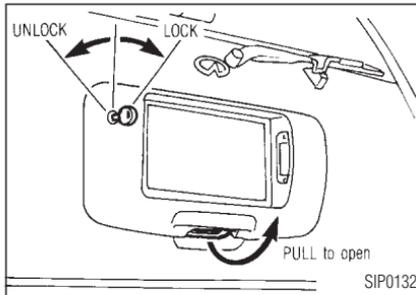
The glove box may be opened by pulling the handle.

WARNING

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

BACK DOOR LOCK

Key operation

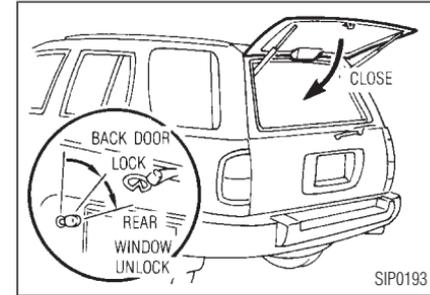


1. Turn the key counterclockwise to unlock the back door.
2. Pull the opener handle to open the back door.
3. To lock the back door, push it down firmly and turn the key clockwise.

WARNING

- **Always check the back door has been closed securely to prevent it from opening while driving.**
- **Do not drive with the back door open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas” in the “Starting and driving” section.**

REAR WINDOW LOCK



To open the rear window, turn the key fully clockwise and pull the handle. To close, lower and push the rear window down securely.

WARNING

Do not drive with the rear window open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas” in the

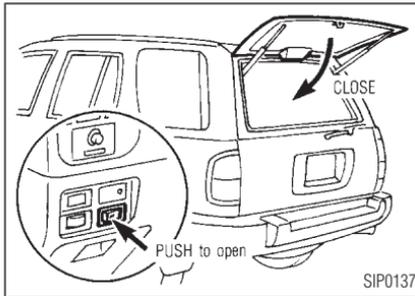
PRE-DRIVING CHECKS AND ADJUSTMENTS

“Starting and driving” section.

 **CAUTION**

Do not open the rear window unless the wiper is in the stowed position.

REAR WINDOW OPENER



Opening the rear window from the inside

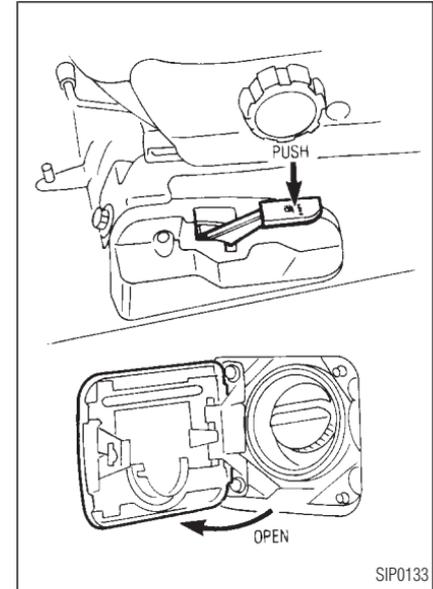
To open the rear window from the inside, push the rear window opener switch and pull the handle.

The rear window will not open while the rear window wiper is operating. Open the rear window after the rear window wiper returns to the STOP position. To close the rear window, push the rear window down securely.

 **WARNING**

Do not drive with the rear window open. This could allow dangerous exhaust gases to be drawn into the vehicle. See “Exhaust gas” in the “Starting and driving” section.

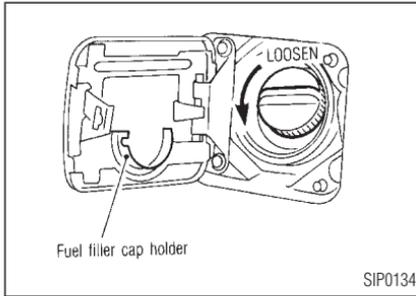
FUEL FILLER LID LOCK Opener lever



PRE-DRIVING CHECKS AND ADJUSTMENTS

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

FUEL FILLER CAP



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

WARNING

- **Gasoline is extremely flammable and highly explosive under cer-**

tain 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 fuel from spraying out and possible personal injury. Then remove cap.**
- **Use only a genuine 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.**

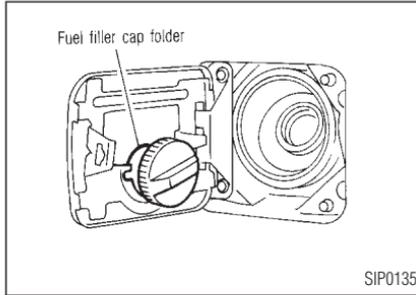
CAUTION

If fuel is spilled on the car body, flush it away with water to avoid paint damage.

If the fuel filler cap is not tightened properly, the Malfunction indicator light (MIL) may come on.

PRE-DRIVING CHECKS AND ADJUSTMENTS

FUEL FILLER CAP HOLDER



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

SEATS

POWER SEAT

WARNING

- **Do not adjust the driver's seat while driving in order that full attention may be given to the driving operations.**
- **Do not leave children unattended inside the vehicle. They may unknowingly activate switches and controls.**

Operating tips

- The power seat motor has an auto-reset overload protection circuit. If the motor stops during operation, wait 30 seconds, then reactivate the switch.
- Do not operate the power seat for a long

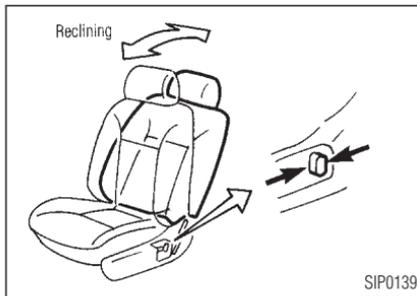
period of time when the engine is off. This will discharge the battery.

Forward and backward



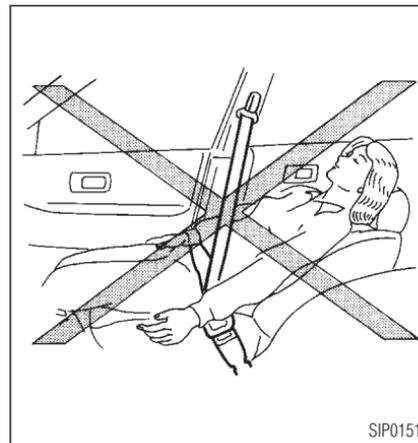
Pressing the switch forward or backward will slide the seat forward or backward to the desired position.

PRE-DRIVING CHECKS AND ADJUSTMENTS



Reclining

Moving the recline switch forward or backward will move the seatback forward or backward to the desired position.



WARNING

Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will

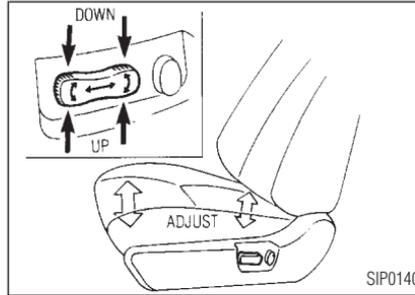
not be against your body. In an accident you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious in-

PRE-DRIVING CHECKS AND ADJUSTMENTS

ternal injuries.

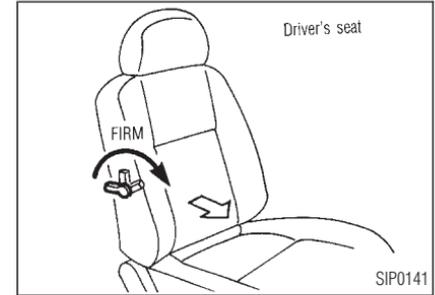
For most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat and adjust the seat belt properly. See “Precautions on Seat Belt Usage” later in this chapter.

Seat lifter



Pull or lower either side of the switch to adjust the seat cushion to the desired angle and height.

Lumbar support (Driver's seat)

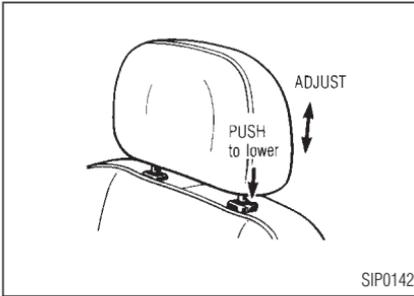


Turn the lever forward or backward to adjust the seat lumbar area.

PRE-DRIVING CHECKS AND ADJUSTMENTS

HEAD RESTRAINTS

Adjust the top of the head restraint level with the top of your ears.



To raise the head restraint, just pull it up. To lower, push the lock knob and push the head restraint down.



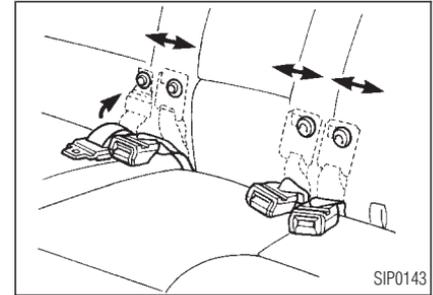
WARNING

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.

REAR SEATS

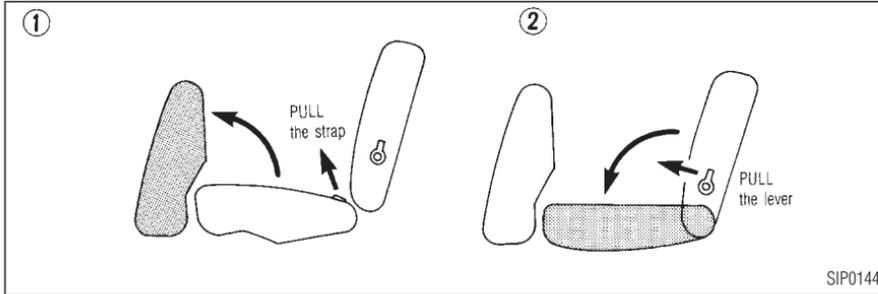
Before folding down the seat, hook the buckle sideways on to the button and hook on the tongue from the top.



Folding

1. Remove the head restraints.
2. Pull the strap forward and fold the seat cushion up.
3. Pull the lever and pull the seat back forward to fold it down.
4. When resetting the seat, be sure to install the head restraints.

PRE-DRIVING CHECKS AND ADJUSTMENTS



WARNING

- **Never allow anyone to ride in the luggage area or on the rear seat when it is in the fold-down position.**
- **It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to**

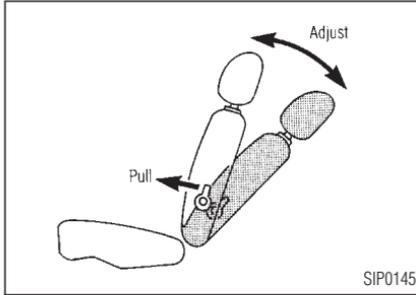
be seriously injured or killed.

- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

- **Head restraints should be adjusted properly as they may provide significant protection against injury in an accident. Always replace and adjust them properly if they have been removed for any reason.**
- **If the head restraints are removed for any reason, they should be securely stored to prevent them from causing injury to passengers or damage to the vehicle in case of sudden braking or an accident.**

PRE-DRIVING CHECKS AND ADJUSTMENTS

Reclining



Pull the reclining lever and position the seatback at the desired angle. Release the reclining lever after positioning the seatback at the desired angle.



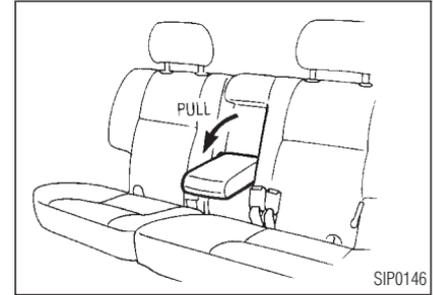
WARNING

- **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 chapter.**
- **After adjustment, check to be sure the seat is securely locked.**

Center armrest



Pull the armrest forward and lay it horizontal.

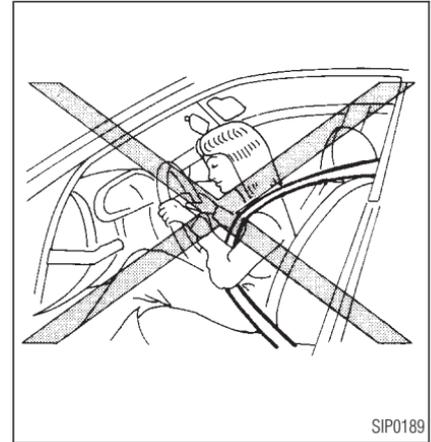
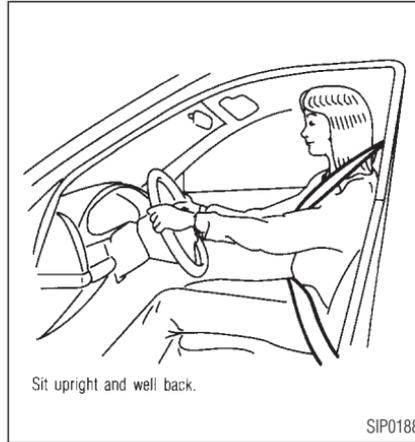
SUPPLEMENTAL RESTRAINT SYSTEM (SUPPLEMENTAL AIR BAG SYSTEM)

This Supplemental Restraint System section contains important information concerning the driver and passenger supplemental air bags. The Supplemental Restraint System Air Bag can help reduce impact force to the driver and

PRE-DRIVING CHECKS AND ADJUSTMENTS

to the front passenger in certain frontal collisions. The supplemental air bags are designed to **supplement** the crash protection provided by the driver and front passenger seat belts and are **not a substitute** for them. Seat belts should always be correctly worn. (See “Seat belts” 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 system is operational.



WARNING

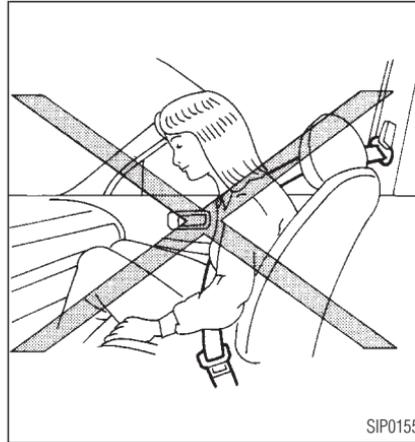
- **The supplemental air bags ordinarily will not inflate in the event of a side impact, rear impact, roll**

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.

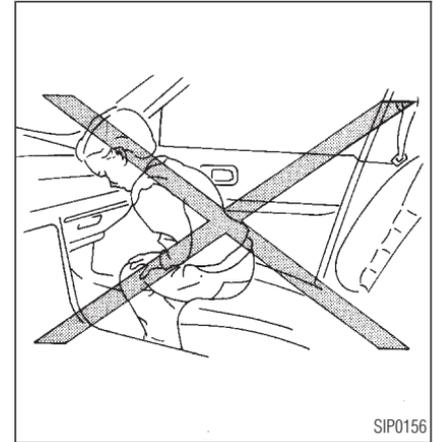
PRE-DRIVING CHECKS AND ADJUSTMENTS



- **The seat belts and the supplemental air bags are most effective when you are sitting back and upright in the seat. Supplemental air bags inflate with great force.**

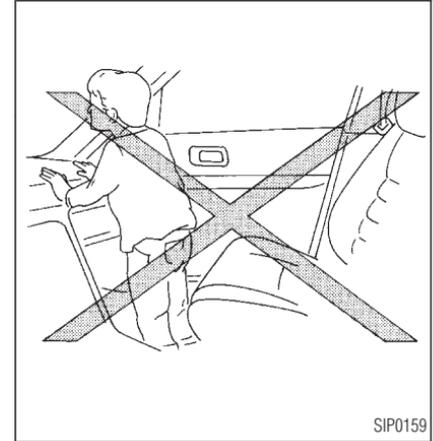
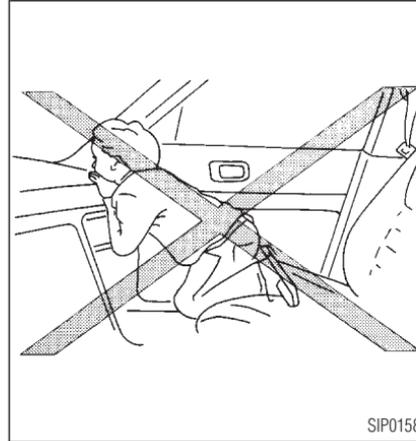
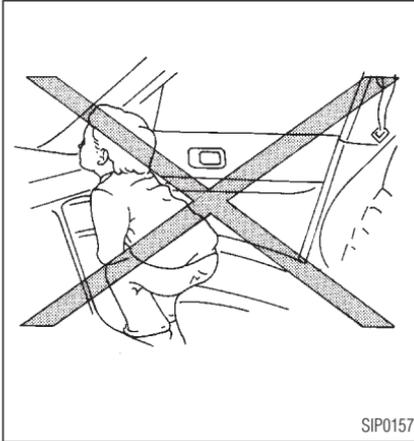


If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash and may also receive seri-



ous or fatal injuries from the supplemental air bag if you are up against it when it inflates. Always sit back against the seat-back and use the seat belts.

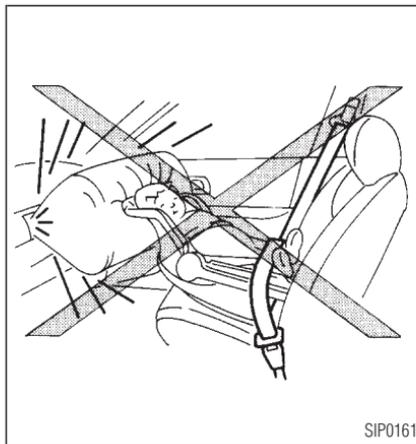
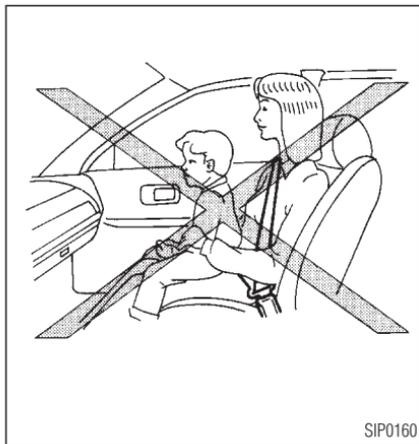
PRE-DRIVING CHECKS AND ADJUSTMENTS



- **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**

air bag inflates.

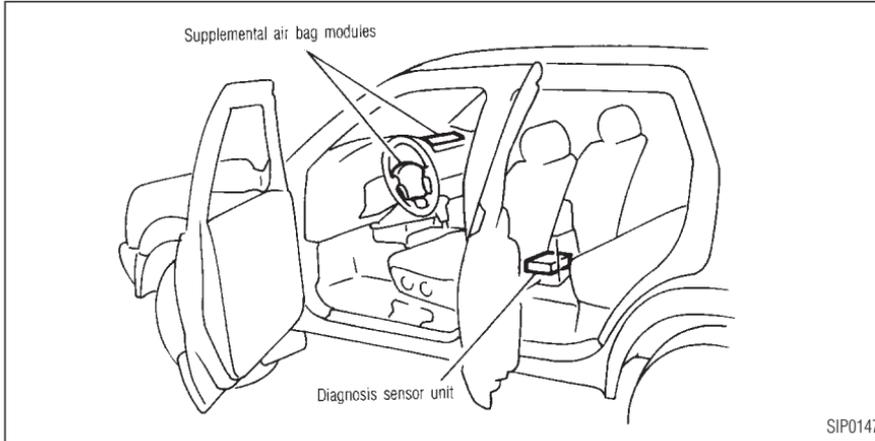
PRE-DRIVING CHECKS AND ADJUSTMENTS



WARNING

- **Never let children ride unrestrained. 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 air bag inflates if they are not properly restrained.**
- **Also never install a rear-facing child restraint in the front seat. An inflating supplemental air bag could seriously injury or kill your child. See “Child restraints for infants and small children” for details.**

PRE-DRIVING CHECKS AND ADJUSTMENTS



Supplemental 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 dashboard above the glove box. The supplemental air bags are designed to inflate in higher severity frontal collisions, although

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

When the supplemental 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, but care should be taken not to intentionally inflate it, as it may cause irritation and choking. Those with a history of breathing trouble should get fresh air promptly.

Supplemental air bags, along with the use of seat belts, help to cushion the impact force on the face and chest of the occupant. They can help save lives and reduce serious injuries. However, an inflating supplemental air bag may cause facial abrasions or other injuries. Supplemental 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 dash board. Since the supplemental air bags inflate quickly in order to help protect the occupant, the force of the supplemental air bag inflating can increase the risk of injury if the occupant is too close to or is against the supplemental air bag module during inflation. The supplemental air bag will deflate quickly

PRE-DRIVING CHECKS AND ADJUSTMENTS

after the collision is over.

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



WARNING

- *Do not attach any objects to the steering wheel pad and to 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 air bag inflates.*
- *Right after inflation, several supplemental air bag system*

components will be hot. Do not touch them; you may severely burn yourself.

- *No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.*
- *Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure. This could affect proper operation of the supplemental air bag system.*
- *Tampering with the supplemental air bag system may result in serious personal injury. Tampering*

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

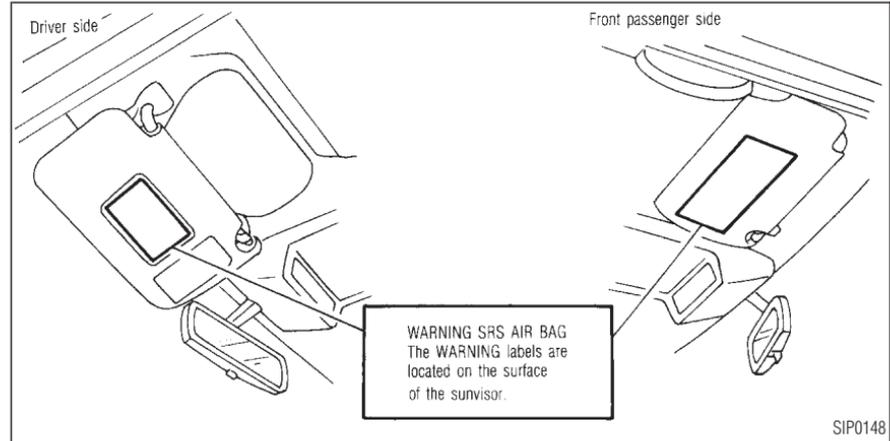
- *Work around and on the supplemental air bag system should be done by an authorized INFINITI dealer. Installation of electrical equipment should also be done by an authorized INFINITI dealer. The SRS wiring harnesses* should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the supplemental air bag system.*

PRE-DRIVING CHECKS AND ADJUSTMENTS

*** The SRS wiring harnesses are covered with yellow insulation either just before the harness connectors or for the complete harness, for easy identification.**

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

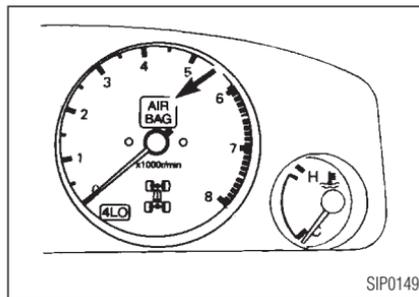
WARNING LABELS



The warning labels about the supplemental air bag system are placed in the vehicle.

PRE-DRIVING CHECKS AND ADJUSTMENTS

SUPPLEMENTAL AIR BAG WARNING LIGHT



The supplemental air bag light, displaying “AIR BAG” in the instrument panel, monitors the circuits of the supplemental air bag. The circuits monitored by the supplemental air bag light are the diagnosis sensor unit, supplemental air bag modules and all related wiring.

When the ignition key is in the “ON” or “START” position, the supplemental air bag light will illuminate for about 7 seconds and

then turn off. This means the system is operational.

If any of the following conditions occur, the supplemental air bag system needs servicing and should be taken to your nearest authorized INFINITI dealer.

1. The supplemental air bag light goes off within 7 seconds.
2. The supplemental air bag light flashes intermittently or remains on (after 7 seconds).
3. The supplemental air bag light does not come on at all.

Under these conditions, the Supplemental Restraint System Air Bag may not operate properly. It must be checked and repaired. Take your vehicle to the nearest authorized INFINITI dealer.



WARNING

If the supplemental air bag warning light is on, it could mean that the supplemental air bag will not operate in an accident.

Repair and replacement procedure

The supplemental air bag system is designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag light will remain illuminated after inflation has occurred. Repair and replacement of the supplemental air bag system should be done only by authorized INFINITI dealers.

To ensure long-term functioning, the system must be inspected 10 years after the date of manufacture noted on the certification label located on the

PRE-DRIVING CHECKS AND ADJUSTMENTS

driver side center pillar.

When maintenance work is required on the vehicle, the supplemental air bag system and related parts 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

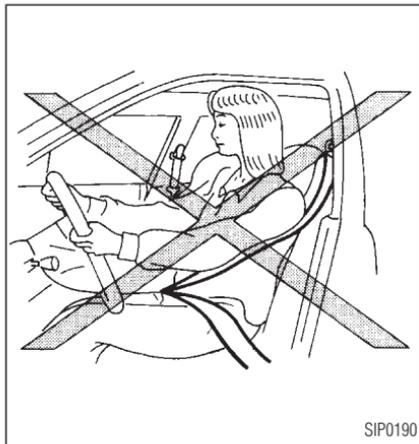
- ***Once the supplemental air bag has inflated, the supplemental air bag module will not function again and must be replaced. The supplemental air bag module should be replaced by an authorized INFINITI dealer. The supplemental air bag module cannot be repaired.***

- ***The supplemental air bag system should be inspected by an authorized INFINITI dealer if there is any damage to the front end portion of the vehicle.***
- ***If you need to dispose of the supplemental air bag or scrap the vehicle, contact an authorized INFINITI dealer.***

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

PRE-DRIVING CHECKS AND ADJUSTMENTS

SEAT BELTS



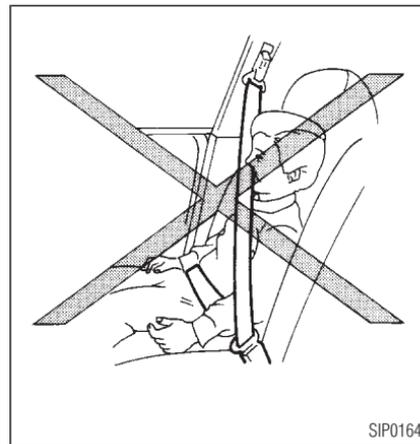
PRECAUTIONS ON SEAT BELT USAGE

Your chances of being injured in an accident and/or the severity of injury or killed 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.

Some states, provinces or 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 wear a seat belt at all times. Children should**

PRE-DRIVING CHECKS AND ADJUSTMENTS

be properly restrained and, if appropriate, in a child restraint.

- *The belt should be adjusted properly and 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 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 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 lamp glows continuously while the ignition is turned “ON” with all doors closed and all seat belts fastened, it may indicate a mal-*

function in the system. Have the system checked by your INFINITI dealer.

- *All seat belt assemblies including retractors and attaching hardware should be inspected after any collision by your INFINITI dealer. INFINITI recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.*

PRE-DRIVING CHECKS AND ADJUSTMENTS

Child safety

Children need adults to help protect them.



WARNING

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

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

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

Infant or small child

INFINITI recommends that infants or 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.

Children

Children who are too large for child restraints should be seated and restrained by the seat belts which are provided.

INFINITI recommends that children sit in the rear seat if available. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.

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

PRE-DRIVING CHECKS AND ADJUSTMENTS

moving. The child could be seriously injured or killed in an accident.

Pregnant women

INFINITI recommends that pregnant women use seat belts. Contact your doctor for specific recommendations. The lap belt should be worn snug and positioned as low as possible around the hips, not the waist.

Injured persons

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

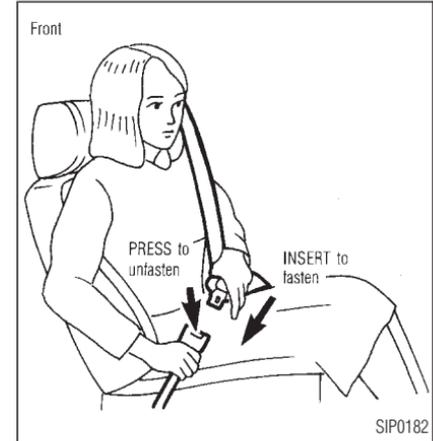
3-POINT TYPE WITH RETRAC-TOR



WARNING

Every person who drives or rides in this vehicle should wear a seat belt at all times.

Fastening the belts



1. Adjust the seat.

PRE-DRIVING CHECKS AND ADJUSTMENTS

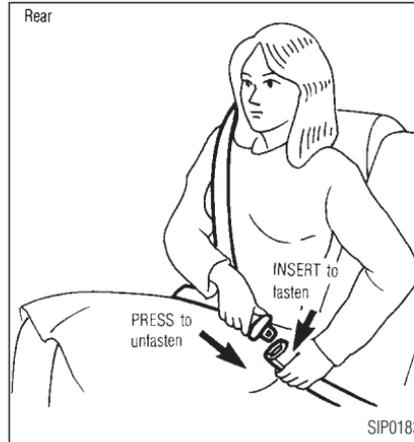


WARNING

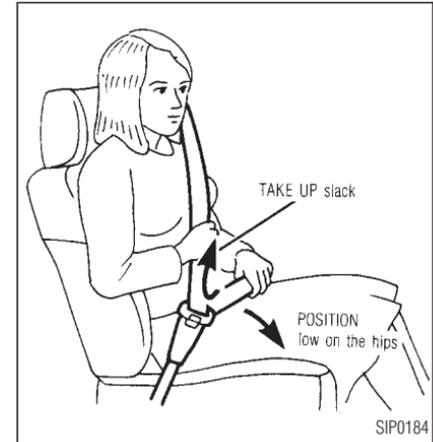
Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.

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.

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 side seat belt and rear 3-point seat belts have a cinching mechanism for child seat installation. It is referred to as

PRE-DRIVING CHECKS AND ADJUSTMENTS

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. Refer to “Child Restraint Systems for Infants and Small Children” later in this section for more information.

The automatic locking mode should be used only for child seat installation. During normal seat belt use by a passenger, the locking mode should not be activated. If it is activated it may cause uncomfortable seat belt tension.

Unfastening the belts

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

Checking seat belt operation (3-point type with retractor)

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

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

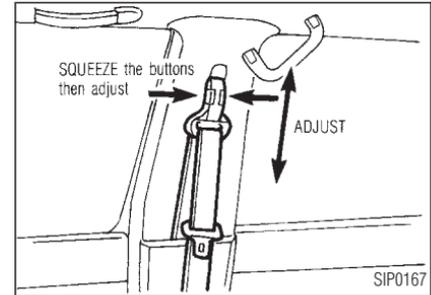
You can check their operation as follows:

- 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 dealer.

Shoulder belt height adjustment (For front seats)

The shoulder belt anchor height should be adjusted to the position best for you. (See “Precautions on seat belt usage”.)



To adjust, squeeze the release buttons, and then move it 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.



WARNING

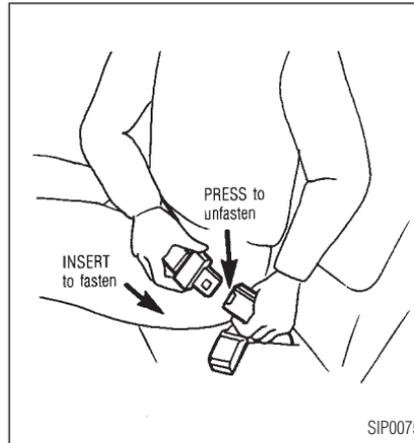
After adjustment, release the button and check that it does not move up and down to make sure the

PRE-DRIVING CHECKS AND ADJUSTMENTS

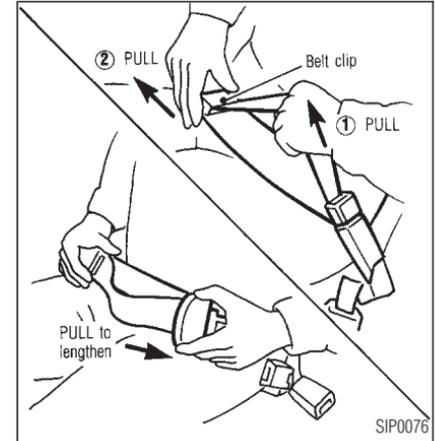
shoulder belt anchor is securely fixed in position.

2-POINT TYPE WITHOUT RETRACTOR (Rear center lap belt)

Fastening the belts



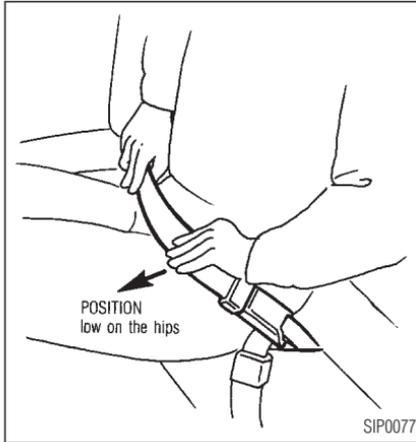
1. Insert the tongue into the buckle marked CENTER until it snaps.



2. To lengthen, hold the tongue at a right angle to the belt and pull on the belt.

To shorten, pull the free end of the belt away from the tongue, then pull the belt clip to take up the slack.

PRE-DRIVING CHECKS AND ADJUSTMENTS

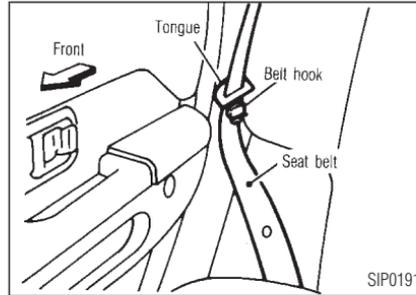


3. Position the lap belt **low and snug on the hips** as illustrated.

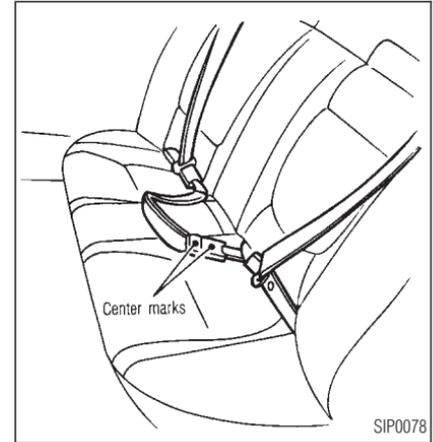
Unfastening the belts

To unfasten the belt, press the button on the buckle.

Belt hook



When the rear seat belt is not in use, hook it at the belt hook.



Selecting correct set of belts

The center seat belt buckle and tongue are identified by the “CENTER” label. The center seat belt tongue can be fastened **only** into the center seat belt buckle.

PRE-DRIVING CHECKS AND ADJUSTMENTS

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 inches (200 mm) of length and may be used for either the driver or front passenger seating position. See your INFINITI dealer for assistance if the extender is required.



WARNING

- **Only INFINITI belt extenders, made by the same company which made the original equipment 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.**

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 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 FOR INFANTS AND SMALL CHILDREN



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.**
- **Children and infants should never be carried on your lap. It is not**

PRE-DRIVING CHECKS AND ADJUSTMENTS

possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.

- ***INFINITI recommends that the 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 a lap belt or the lap portion of a three point type seat belt. Child restraints spe-

cially designed for infants and small children are offered by several manufacturers. When selecting any child restraint system, keep the following points in mind:

- 1) 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.
- 2) 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.
- 3) 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 U.S. states and provinces of Canada require that infants and small children be restrained in approved child restraint systems at all times while the vehicle is being operated.



WARNING

- ***Never install a rear-facing child restraint in the front seat. An inflating supplemental air bag could seriously injure or kill your child. A rear-facing child restraint must only be used in the rear seat. See "Installation on front passenger seat" for details.***
- ***Improper use of a child restraint can result in increased injuries for both the infant or child and other occupants in the vehicle.***

PRE-DRIVING CHECKS AND ADJUSTMENTS

- *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 seat 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 the restraint before you place the child in it. Tilt the restraint from side to side. Try to tug it forward and check to see if the belt holds it 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, if the seat position where it is installed has a 3-point type lap/shoulder belt, 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.*

- *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 center seating position

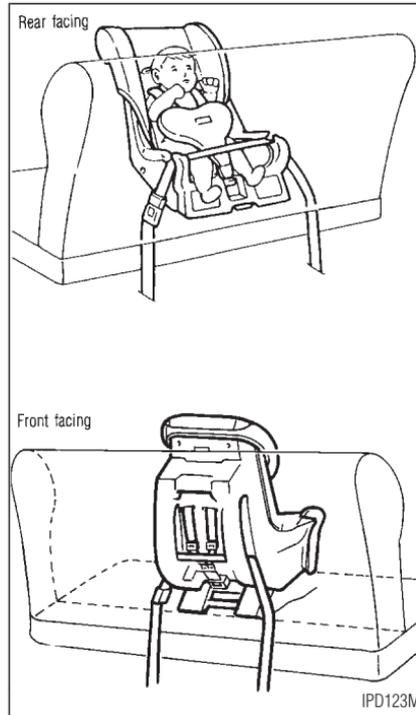
When you install a child restraint in a rear center seat, follow these steps:

1. Position the child restraint on the seat as

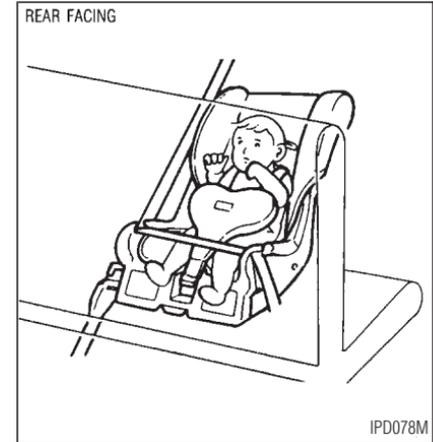
PRE-DRIVING CHECKS AND ADJUSTMENTS

illustrated. It can be placed in a forward facing or rear facing direction, depending on the size of the child. Always follow the restraint manufacturer's instructions.

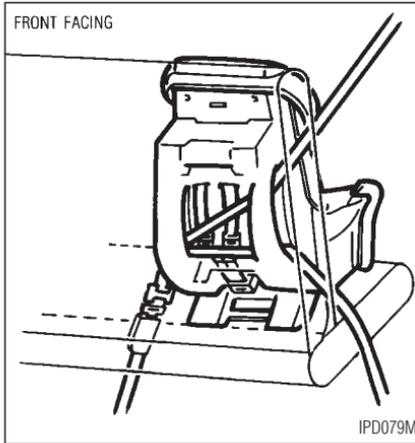
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage. Be sure to follow the child restraint manufacturer's instructions for belt routing.
3. Remove all slack in the lap belt for a very tight fit by pulling forcefully on the lap belt adjustment.
4. 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.
5. If it is not secure, try to tighten the belt again, or put the restraint in another seat.
6. Check to make sure the child restraint is properly secured prior to each use.



Installation on rear outboard seating positions



PRE-DRIVING CHECKS AND ADJUSTMENTS



WARNING

- **The 3-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 seat, follow these steps:

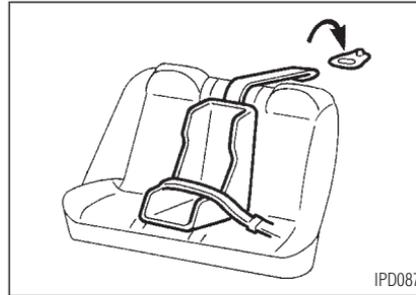
1. Position the child restraint on the seat. It can be placed in a forward facing or rear facing direction, depending on the size of the child. Always follow the restraint manufacturer's instructions.
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear 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 and a click is heard. At this time, the belt retractor is in the automatic locking mode (child restraint mode). It will revert back to "emergency locking" when the belt is fully retracted.
4. Allow the belt to retract. A clicking sound will be heard as the belt retracts. This indicates that the retractor is in the automatic locking mode. 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.

PRE-DRIVING CHECKS AND ADJUSTMENTS

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 may be used as normal and will only lock during a sudden stop or impact.

Top strap child restraint



If your child restraint has a top strap, install the anchor bracket to the provided anchor point.

The top strap anchor bracket is available through your INFINITI dealer.

Part #88894-89900

Secure the child restraint with the center lap belt or the lap portion of an outboard 3-point belt and latch the top strap hook onto the appropriate anchor bracket. To install the anchor bracket, a metric bolt of the dimen-

sions listed below must be used.

Bolt diameter: 8.0 mm

Bolt length: more than 1.18 in (30 mm)

Thread pitch: 1.25 mm

The top strap should be secured to the attaching bolt which provides the straightest installation of the top strap.

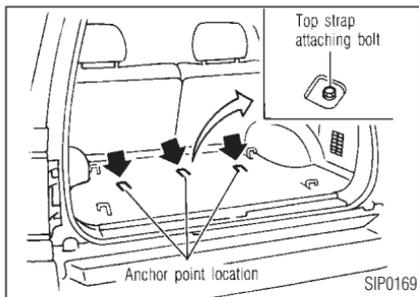


WARNING

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

PRE-DRIVING CHECKS AND ADJUSTMENTS

Anchor point locations



Anchor point attaching bolts are located under the carpet of the rear luggage area floor.

When installing a top strap child restraint on the rear seat for the first time, consult your INFINITI dealer for details.

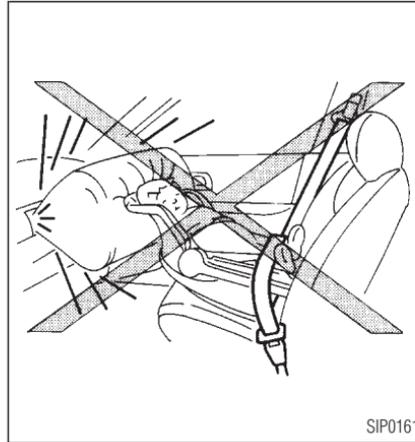


WARNING

The anchor bolt should be installed at all times to prevent the possibility of exhaust fumes entering the passenger compartment through the holes. See "Exhaust Gas" in the "Starting and driving" section.

PRE-DRIVING CHECKS AND ADJUSTMENTS

Installation on front passenger seat



WARNING

- **Never install a rear-facing child restraint in the front passenger seat. Supplemental air bags in-**

flate with great force. A rear-facing child restraint could be struck by the supplemental air bag in a crash and could seriously injure or kill your child.

- **If you install a forward-facing child restraint in the front-passenger seat, place the passenger seat as far back as possible.**
- **A child restraint with a top strap should not be used in the front passenger seat.**
- **The 3-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 lock-**

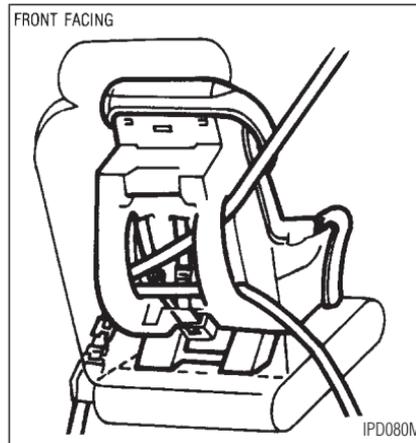
PRE-DRIVING CHECKS AND ADJUSTMENTS

ing mode may result in the child restraint not being properly secured. The restraint could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.

When you 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 forward facing direction only.** Move the seat as far back from the instrument panel as possible. 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 and a click is heard. At this time, the belt retractor is in the

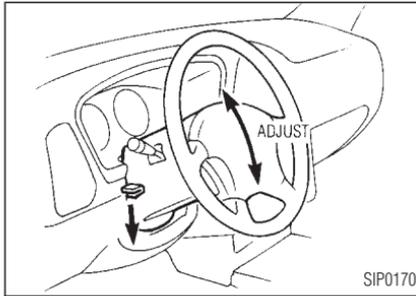
automatic locking mode (child restraint mode). (It will revert back to "emergency locking" when the belt is fully retracted.)

4. Allow the belt to retract. A clicking sound will be heard as the belt retracts. This indicates that the retractor is in the automatic locking mode. 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.

PRE-DRIVING CHECKS AND ADJUSTMENTS

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 may be used as normal and will only lock during a sudden stop or impact.

TILTING STEERING WHEEL



Tilt operation

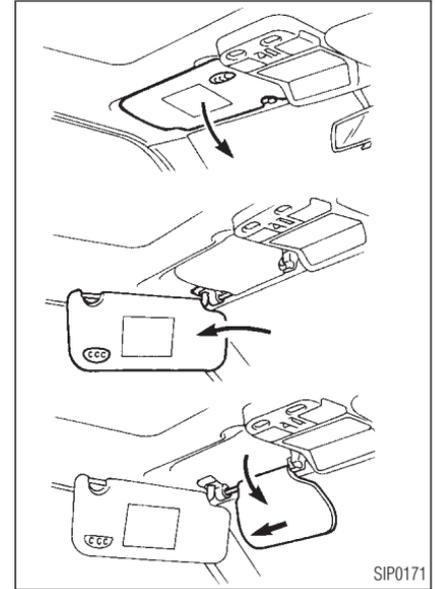
Push the lock lever and while holding it down, adjust the steering wheel up or down to the desired position.



WARNING

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

SUN VISORS



PRE-DRIVING CHECKS AND ADJUSTMENTS

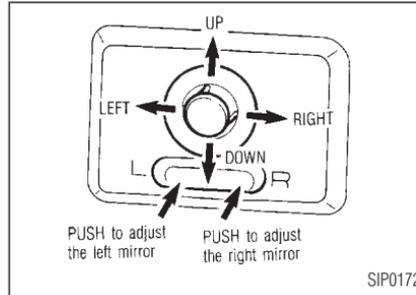
1. To block out glare from the front, swing down the main sun visor.
2. To block glare from the side, remove the main sun visor from the center mount and swing it to the side.
3. Then, to block glare from the front too, swing down the sub-sun visor.
4. To adjust the glare block position, slide the sub-sun visor to the left.



CAUTION

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

OUTSIDE MIRROR RE-MOTE CONTROL



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

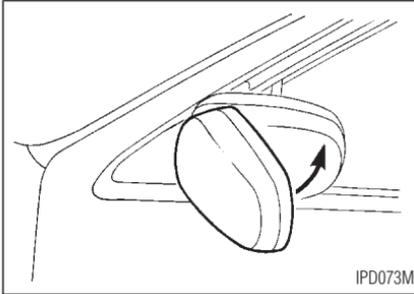
mirror could cause an accident. Use inside mirror or glance over your shoulder to properly judge distances to other objects.

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

Push the right or left end of the switch to select the right or left side mirror, then adjust using the control lever.

PRE-DRIVING CHECKS AND ADJUSTMENTS

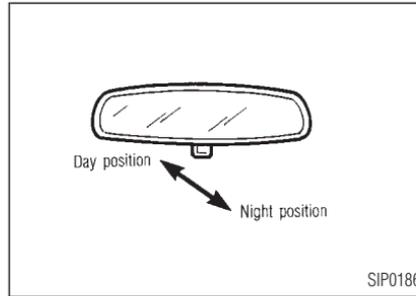
FOLDABLE OUTSIDE MIRRORS



Push the outside mirror backward to fold it.

INSIDE MIRROR

The night position will reduce glare from the headlights of vehicles behind you at night.



LUGGAGE NET

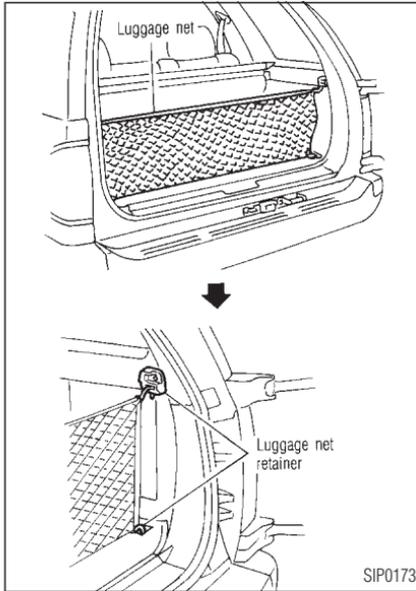
The luggage net keeps packages in the cargo area from moving around while your vehicle is driven.



WARNING

Use the night position only when necessary, because it reduces rear view clarity.

PRE-DRIVING CHECKS AND ADJUSTMENTS



To install the luggage net, attach the four hooks to the four retainers.

To remove the luggage net, detach the four

hooks from the luggage net retainers.



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.**
- **Be sure to secure all four hooks into the retainers. The cargo restrained in the net must not exceed 30 lbs. (13.6 kg) or the net may not stay secured.**

LUGGAGE HOOKS

The luggage hooks can be used to secure cargo with ropes or other types of straps.



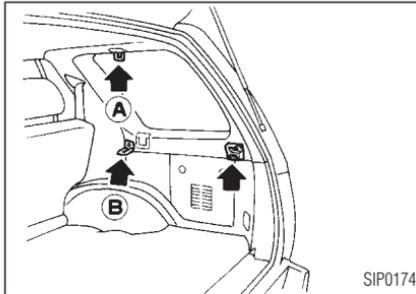
WARNING

- **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.**
- **Use suitable ropes and hooks to secure cargo.**
- **Never allow anyone to ride in the luggage area. It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.**

PRE-DRIVING CHECKS AND ADJUSTMENTS

- Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.
- Be sure everyone in your vehicle is in a seat and using a seat belt properly.

Side finisher

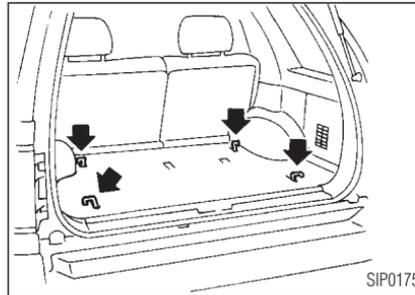


- When hooking on ropes, do not ap-

ply a load of more than 98 N (10 kg, 22 lb) to a single hook.

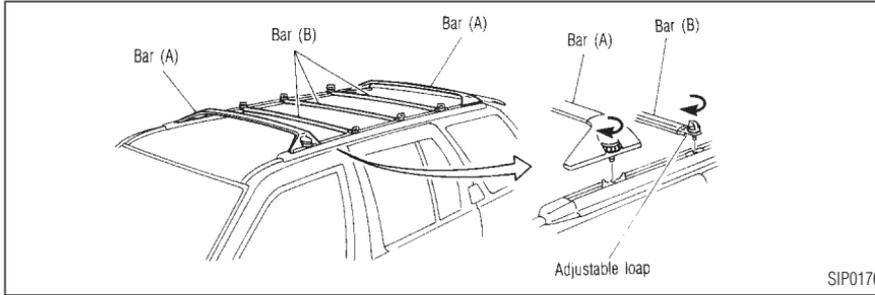
- Do not use the luggage net between the A and B hooks.

Floor hooks



PRE-DRIVING CHECKS AND ADJUSTMENTS

LUGGAGE RACK



The cross-bars can be adjusted forward and backward. Place your luggage between the bars (A), adjust the bars (A), and secure the luggage with rope to the bars (A). There are also adjustable loops on the side bars for the rope attachment.

Always evenly distribute the luggage on the luggage rack. **Do not load more than 100 lbs. (45 kg).** Be careful that your vehicle does not exceed the Gross Vehicle Weight Rating (GVWR) or its Gross Axle

Weight Rating (GAWR front and rear). The GVWR and GAWR are located on the Safety Compliance Certification Label (located on the driver's door pillar). For more information regarding GVWR and GAWR, refer to "Technical and customer information".

Ensure both front and rear bars (A) are installed correctly. See illustration for details.



CAUTION

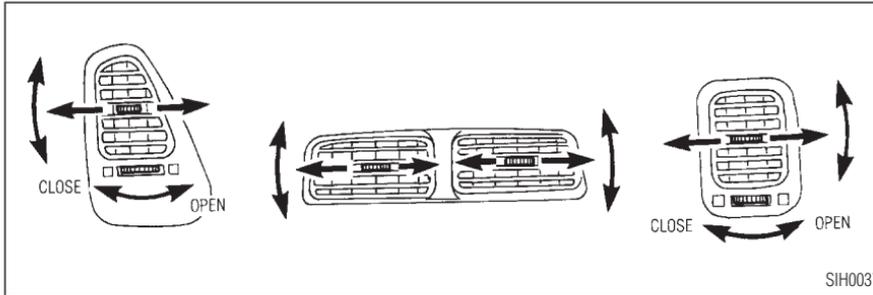
Use care when placing or removing items from the luggage rack. If you cannot comfortably lift the items onto the luggage rack from the ground, use a ladder or stool.

3 HEATER, AIR CONDITIONER AND AUDIO SYSTEM

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HEATER, AIR CONDITIONER AND AUDIO SYSTEM

VENTILATOR



Center ventilators

Adjust the air flow direction of ventilators.

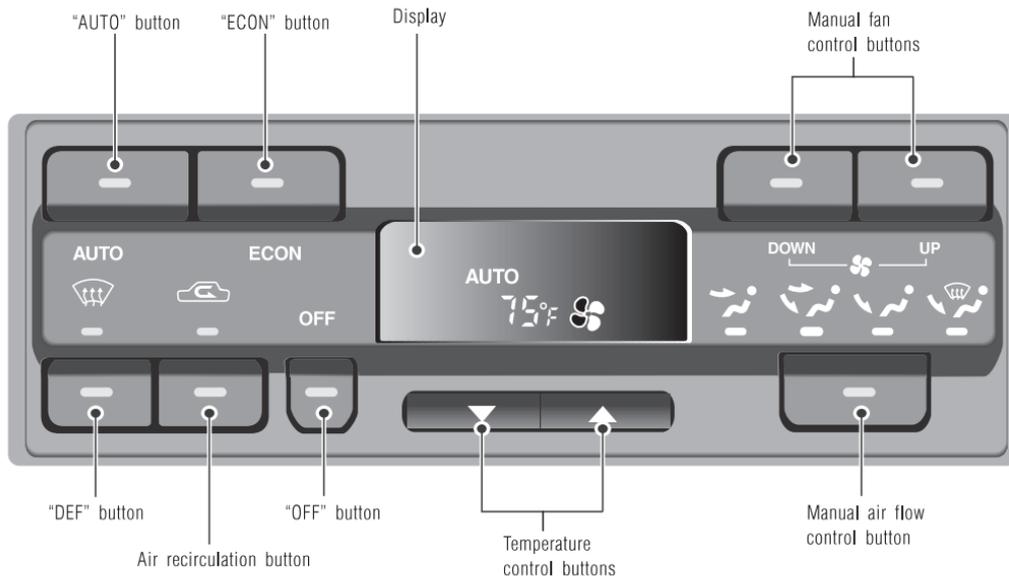
Open or close, and adjust the air flow direction of ventilators.

☒ : This symbol indicates that the vents are closed when the vent switch is moved to the left.

≡ : This symbol indicates that the vents are open when the vent switch is moved to the right.

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AUTOMATIC AIR CONDITIONER



SIH0038

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Start the engine and operate the controls to activate the air conditioner.



WARNING

- **The air conditioner cooling function operates only when the engine is running.**
- **Do not leave children, unreliable 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 heating or air conditioning controls should not be done while driving, in order that full attention may be given to the driving operation.**

Cooling and/or dehumidified heating (Auto mode)

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 button on. ("AUTO" will appear on the display.)
 2. Push the temperature control button "▽" "△" to set the desired temperature.
- For normal operation, adjust the temperature control button to about 75°F (24°C).

- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.

Heating (ECON mode)

Use this mode when you need to heat only.

1. Push the ECON (ECONOMY) button on. ("ECON" appears on the display.)
 2. Push the temperature control button "▽" "△" to set the desired temperature.
- The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
 - Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
 - If the windows fog up, do not use the ECON mode.

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Dehumidified defogging

1. Push the “DEF  ” switch on. (The indicator light will come on.)
2. Push the temperature control button “ ” “ ” to set the desired temperature.
 - To remove ice or fog from the outside of the windows, push the manual fan control button “ ” and set to the maximum position.
 - As soon as possible after the windshield is clean, push the AUTO button to return to the auto mode.
 - When the “DEF  ” button is pushed, the air conditioner will automatically be turned on at outside temperatures above 32°F (0°C) to defog the windshield. The air recirculation mode will automatically be turned off.

Outside air is drawn into the passenger

compartment to improve defogging performance.

Air recirculation button

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

Push it again to draw outside air into the passenger compartment. The indicator will go out.

- The air recirculation button cannot be activated when the air conditioner is in the DEF mode.

Manual fan speed control

Push the fan control button “ ” to change the fan speed manually.

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

Manual air flow control button

Pushing the manual air flow control button selects the air outlet to provide (The indicator light will come on):

 : Air flow from center and side ventilators.

 : Air flow from center and side ventilators and foot outlets.

 : Air flow mainly from foot outlets.

 : Air flow from defroster and foot outlets.

To turn the system off

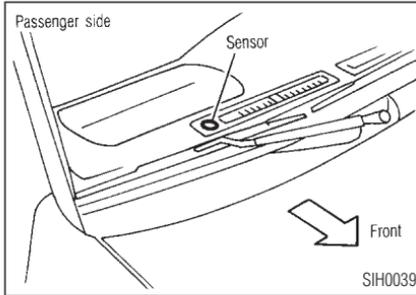
Push the OFF button.

Operating tips

- When the engine coolant temperature and outside air temperature are low, the air flow from the foot outlets may not operate for 0 to 126 seconds. This is not a malfunction. After the coolant temperature warms up, air flow from the foot outlets

HEATER, AIR CONDITIONER AND AUDIO SYSTEM

will operate normally.



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

Servicing air conditioner

The air conditioning 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 air conditioning system. See "Air Conditioning system refrigerant and lubricant recommendations" in the "Technical and consumer information" section of this manual.

Your INFINITI dealer will be able to service your environmentally "friendly" air conditioning system.

HEATER, AIR CONDITIONER AND AUDIO SYSTEM

RADIO

Turn the ignition key to “ACC” or “ON” and press the power on switch 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.

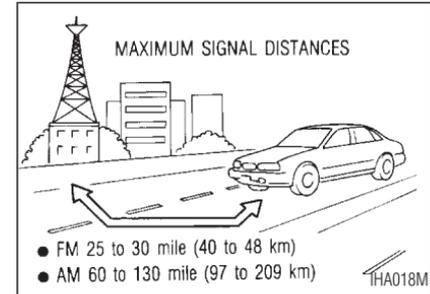
RADIO RECEPTION

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.

Remember that a moving vehicle is not the ideal place to listen to a radio. Because of the movement, reception conditions will constantly change. 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 character-

HEATER, AIR CONDITIONER AND AUDIO SYSTEM

istics 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

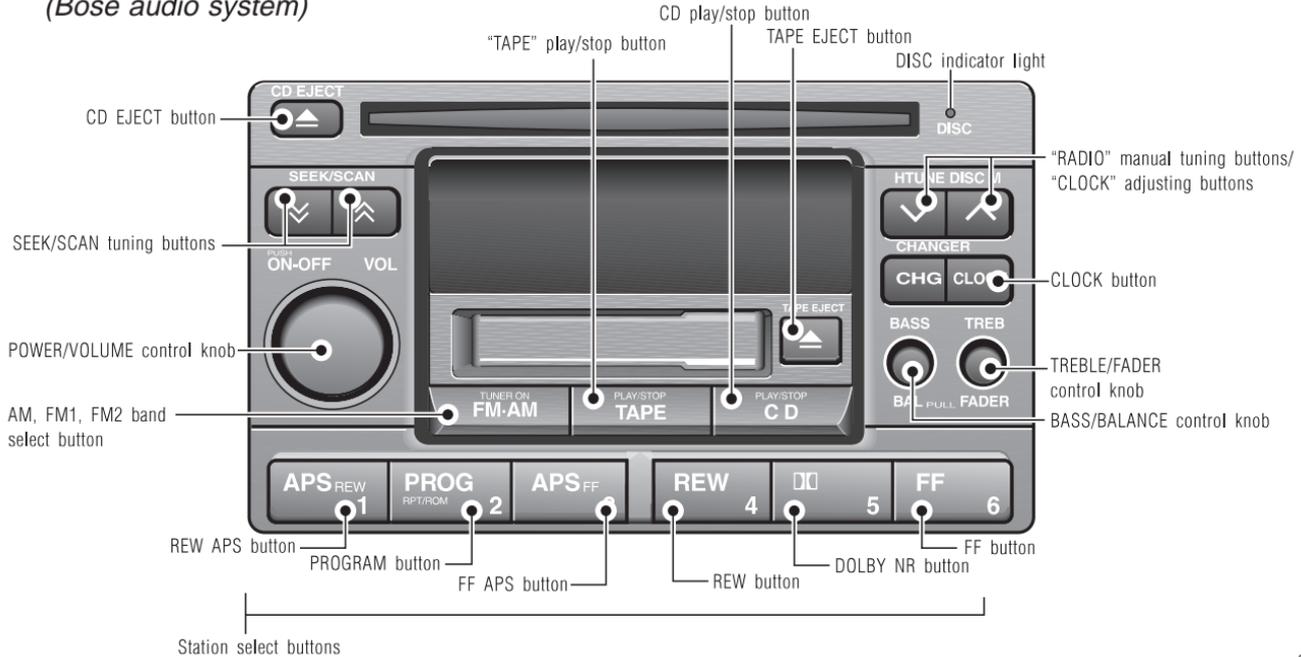
AM signals, because of their low frequency, can “bend” around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics. AM signals are also subject to interference as they travel from transmitter to receiver.

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.

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AUDIO SYSTEM (Bose audio system)



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Head unit

The radio has an FM Diversity reception system, which employs two antennas. One is a rod type antenna; the other is an antenna printed on the window. This system automatically switches to the antenna which is receiving less noise.

The tape deck employs an amorphous head which allows for improved reproduction of high frequency ranges. Noise is also greatly reduced by the combined use of the Dolby NR (noise reduction) system. The auto loudness circuit enhances the low frequency range automatically in both radio reception and tape playback.

Bose speaker

A large output amplifier featuring a low distortion ratio is connected directly to each speaker unit to provide increased output and excellent tonal quality. The equalizing circuit permits regeneration of forcible base sound.

This equalizing circuit permits the sound efficiency to be matched with the interior conditions of your INFINITI for a selection between "natural sound" and "high-fidelity sound".

POWER button

Turn the ignition key to "ACC" or "ON", then push the POWER/VOLUME control knob 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 the POWER/VOLUME control knob turns the system off.

To turn the radio off, press the POWER/VOLUME control knob.

VOL (volume) control knob

Push then turn the VOLUME control knob to adjust the volume.

Clock set (Adjustment)

Depressing the "CLOCK" and the "∨" buttons together will set hours. Depressing the "CLOCK" and "∧" buttons together will set minutes.

Clock operation

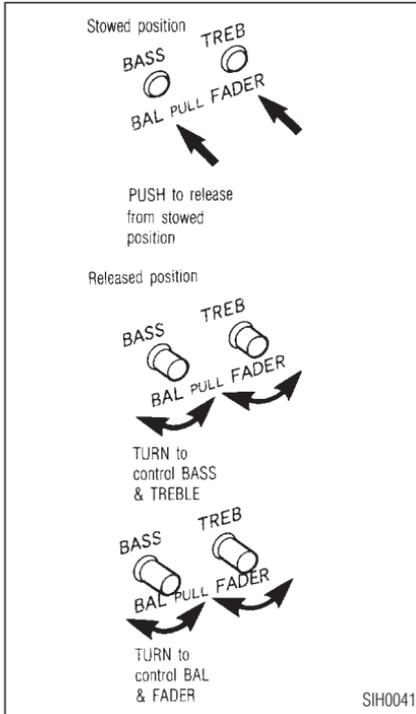
By pressing the "CLOCK" button, you can alternate the clock and the radio/cassette tape options in the display.

Clock priority mode

In this mode the clock will be shown in the display. If any radio or cassette tape functions are activated, the radio (or cassette tape) display will illuminate for ten seconds then return to the clock mode.

After clock adjustment, the radio is in the clock priority mode.

HEATER, AIR CONDITIONER AND AUDIO SYSTEM



Adjusting tone quality and speaker sound balance

To adjust BASS, TREB (treble), FADER, and BAL (balance) the control knobs must be released from their stowed positions. Pushing the knobs once moves them to the released position.

In the released position, the knobs control tone quality. Turn the control knobs to adjust BASS and TREB to the most pleasing level.

From the released position, the knobs must be pulled out in order to control FADER and BAL. FADER adjusts the sound level between the front and rear speakers, and BAL adjusts the sound level between the right and left speakers.

Once sound quality is set to the desired levels, return the control knobs to the stowed position by pushing them in completely and releasing.

RADIO OPERATION

FM-AM band select button



Pushing the FM-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 at "ACC" or "ON", the radio will come on at the station last played.
- The last station played will also come on when the power button is turned to ON.
- If a compact disc or tape is inserted when the FM-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 "ST" will glow during FM stereo reception. When the stereo broadcast signal is weak, the radio

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will automatically change from stereo to monaural reception.

TUNE button  

Use these buttons for manual tuning. To move quickly through the channels, hold either of the tuning buttons down for more than 0.5 seconds.



WARNING

The radio should not be tuned while driving in order that full attention may be given to the driving operation.

SEEK/SCAN tuning

buttons  

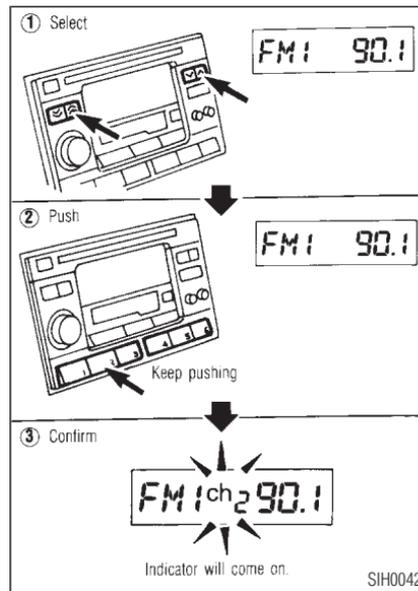
SEEK tuning

Push the SEEK/SCAN tuning button “” or “” for less than 1.5 seconds. SEEK

tuning begins from low to high frequencies and stops at the next broadcasting station.

SCAN tuning

Push the SEEK/SCAN tuning button “” or “” for more than 1.5 seconds. SCAN tuning begins from low to high frequencies and stops at each broadcasting station for five seconds. Pushing the button again during this five second period will stop SCAN tuning and the radio will remain tuned to that station.



Station memory operations

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

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Six stations can be set for the AM band.

Select the desired station.

1. Tune to the desired station.
2. Push the desired select button for more than 1.5 seconds. (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 radio 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 canceled. In that case, reset the desired stations.

Cassette tape operation

Turn the ignition key to "ACC" or "ON", 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 POWER/VOLUME control knob with the cassette tape still in the player, the tape will resume playing when the POWER/VOLUME control knob is pushed again.

TAPE button

- When this button is pushed with the system turned off and a tape loaded, the system will come on and the tape will play.

- When this button is pushed with either the radio or compact disc turned on and the tape loaded, the compact disc or the radio will automatically be turned off and the tape will play.

While the tape is playing, pushing the TAPE button stops the tape. Pushing the button again allows the tape to play.

FF (fast forward), REW (rewind) button



Push the FF (fast forward) button to fast forward the tape. To rewind the tape, push the REW (rewind) button. Either the indicator light "▶▶" or "◀◀" will come on when the FF or REW function is started.

APS (automatic program search) FF, APS REW button



When the APS FF button is pushed while the tape is being played, the next program will start to play from the beginning. Push the APS

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FF button several times to skip through programs. The tape will advance the number of times the button is pushed (up to 9 programs).

When the APS REW button is pushed once, the program being played starts over from the beginning. Push several times to fast rewind programs. The tape will go back the number of times the button is pushed. Either the indicator light “▶▶” or “◀◀” will come on when the APS FF or APS REW function is started.

This system searches at 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.

PROG (program) button

Push the PROG (program) 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.

Dolby NR (noise reduction) button

Push the  “DOLBY NR” button for Dolby NR encoded tapes to reduce high frequency tape noise. The indicator will come on.

Dolby NR is manufactured under license from Dolby Laboratories Licensing Corporation. “DOLBY NR” and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

TAPE EJECT button

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.

Metal or chrome tape usage

The cassette player will automatically set to high performance play when playing a metal or chrome cassette tape.

Precautions on cassette player operation

- **To maintain good quality sound, INFINITI recommends that you use 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, moisture or 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 that have peel-**

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ing or loose labels. 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. Loose tape may cause jamming and wavering sound quality.
- Over a period of time, the playback head, capstan and pinch roller may gather a tape coating residue as the tape passes over the head. This residue accumulation can cause a weak or wavering sound and should be removed periodically with a head cleaning tape.

INFINITI offers a genuine tape player cleaning kit. See your INFINITI dealer for details.

COMPACT DISC (CD) PLAYER OPERATION

Turn the ignition key to the "ACC" or "ON"

position and insert the compact disc into the slot with the label side facing up. The compact disc will be guided automatically into the slot and start playing.

If the radio or tape is already operating, it will automatically turn off and the compact disc will play.



CAUTION

Do not force the compact disc into the slot. This could damage the player.

If the system has been turned off while the compact disc was playing, pushing the POWER/VOLUME control knob will start the compact disc. (When the system is turned off by the CD EJECT button "▲", however, the previous mode will begin.)

CD button



- When this 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 this 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.
- When this button is pushed while the compact disc is playing, the compact disc will stop playing. When this button is pushed with the compact disc stopped, the compact disc will start to play.

FF (fast forward), REW (rewind) button



When the FF (fast forward) or REW (rewind) button is pushed while the compact disc is being played, the compact disc will play while fast forwarding or rewinding. When the button

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is released, the compact disc will return to normal play speed.

APS (automatic program search) FF, APS REW button



When the APS FF button is pushed while the compact disc is being played, the program next to the present one will start to play from its beginning. Push several times to skip through programs. The compact disc will advance the number of times the button is pushed. (When the last program on the compact disc is skipped through, the first program will be played.) When the APS REW button is pushed, the program being played returns to its beginning. Push several times to skip back through programs. The compact disc will go back the number of times the button is pushed.

PROG (program) button



When this button is pushed while the compact

disc is being played, play pattern will change as follows:

ALL: All the programs will be played repeatedly in sequence.

1: Only one program (the one being played when the PROG button is pushed) will be repeated.

RANDOM: Programs will be played at random, not following the sequence on the compact disc.

(no mark): All the programs will be played in sequence and stop when the last program is finished.

- **RANDOM** The same program may be repeated twice.
- When the compact disc is ejected, the play pattern will automatically change to ALL.

CD EJECT button



When the CD EJECT button is pushed with the

compact disc loaded, the compact disc will be ejected.

When this button is pushed while the compact disc is being played, the compact disc will come out and the system will turn off.

If the compact disc comes out and is not removed, it will be pulled back into the slot to protect it.

CD (DISC) indicator light

This light comes on when the compact disc is loaded.



CAUTION

- **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.**

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- ***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.***

POWER ANTENNA

The antenna will automatically extend when the radio is turned on, and retract when switched off. If the radio is left on, the antenna will retract and extend with the ignition key "OFF-ON" operation.



CAUTION

- ***Before turning the radio on, make sure that no one is near the antenna outlet and there is enough space for it to extend.***
- ***To prevent damage, be sure that antenna is fully retracted before the vehicle enters an automatic car wash.***
- ***Dirt and other foreign matter on the power antenna rod may interrupt its operation. Clean the rod periodically with a damp cloth. This type of cleaning is especially important during the winter seasons in areas where road salt and other chemicals may be spread on road surfaces and splashed onto the antenna rod.***

CB RADIO OR CAR PHONE

When installing a CB radio or a car phone 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.



CAUTION

- ***Keep the antenna as far as possible away from the Electronic Control Unit (including radio).***
- ***Keep the antenna wire more than 8 inches (20 cm) away from the PCME 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 dealer.***

4 STARTING AND DRIVING

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STARTING AND DRIVING

PRECAUTIONS WHEN STARTING AND DRIVING



WARNING

- *Do not leave children, unreliable 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.*
- *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.

EXHAUST GAS (Carbon Monoxide)



WARNING

Do not breathe exhaust gases. They contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous and 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 back door and window closed while driving, otherwise exhaust gases may be drawn into the passenger compartment. If you must drive with them open follow these precautions:*
 1. *Open all the windows.*
 2. *Set the air recirculate switch “OFF” and the fan control at “high” to circulate the air.*
- *If 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*

STARTING AND DRIVING

into the vehicle.

- *If 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 technician 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 pipe.

- *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 will seriously reduce the three way catalyst ability to 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*

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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 dealer.

- *Avoid driving with an extremely low fuel level. Running out of fuel could cause the engine to misfire, damaging the three way catalyst.*
- *Do not race the engine while warming it up.*
- *Do not push or tow your vehicle to start the engine.*

ON-PAVEMENT AND OFF-ROAD DRIVING PRECAUTIONS

Utility vehicles have higher ground clearance than passenger cars and a narrower track to make them capable of performing in a wide variety of off-road applications. Specific design characteristics give them a higher center of gravity than ordinary cars. An advantage of higher ground clearance is a better view of the road, allowing you to anticipate problems. They are not designed for cornering at the same speeds as conventional 2-wheel drive vehicles any more than low-slung sports cars are designed to perform satisfactorily under off-road conditions. If at all possible, avoid sharp turns or abrupt maneuvers. As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or vehicle rollover.

Be sure to read the driving safety precautions later in this section.

AVOIDING COLLISION AND ROLLOVER



WARNING

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident.

Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering 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

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(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 blood stream 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 injury.

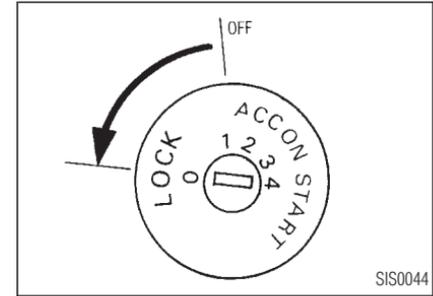
INFINITI is committed to safe driving. But, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all people differently and most people underestimate the effects of alcohol.

Remember, drinking and driving don't mix!

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

IGNITION SWITCH

The switch includes an anti-theft steering lock device.



“LOCK” Normal parking position (0)

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

When removing the key from the ignition,

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make sure the selector lever is in the “P” 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” 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 selector lever cannot be moved from “P” (Park). **The selector lever can be moved if the ignition switch is in the “ACC” position. The selector lever can also be moved if the ignition switch is in the**

“ON” position and the foot brake pedal is depressed.

There is an “OFF” position in between “LOCK” and “ACC”, although it does not show on the lock cylinder. When the ignition is in “OFF” the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/6 of a turn clockwise from the straight up position.

To 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.



WARNING

Never remove the key while driving. If the key is removed, the steering wheel will lock. This may cause the

driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.

Key positions

“OFF” (1)

The engine can be turned off without locking the steering wheel.

“ACC” (Accessories) (2)

This position activates electrical accessories such as the radio when the engine is not running. The automatic transmission selector lever can be shifted.

“ON” Normal operating position (3)

This position turns on the ignition system and the electrical accessories.

STARTING AND DRIVING

"START" (4)

This position activates the starter motor, starting the engine.

BEFORE STARTING THE ENGINE

- Make sure all windows and lights are clean.
- Check fluid levels such as engine oil, coolant, brake and clutch fluid, window washer fluid as frequently as possible, at least whenever you refuel.
- Check to be sure that all windows and light lenses 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.

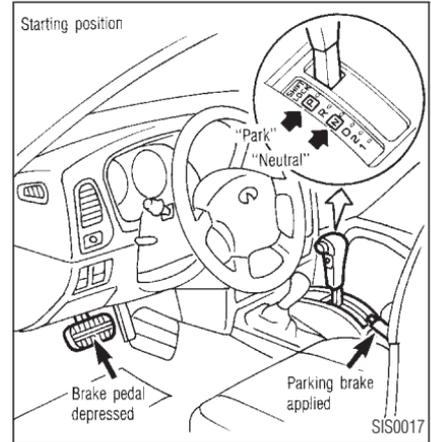
DRIVING WITH AUTOMATIC TRANSMISSION

The automatic transmission in your vehicle is electronically controlled by a microcomputer to produce maximum power and smooth operation.

Recommended operating procedures for this transmission are shown on the following pages. Follow these procedures for maximum vehicle performance and driving enjoyment.

See "Transfer case shifting procedures" later in this section.

Starting the vehicle



- After starting the engine, fully depress the foot brake pedal and push the selector lever button before shifting the selector lever from "P" to the "D", "R", "2" or "1" position. Be sure the vehicle is fully stopped before

STARTING AND DRIVING

attempting to shift the selector lever from or to “P” or “R”.

This automatic transmission is designed so that the foot brake pedal **MUST** be depressed before shifting from “P” to any drive position while the ignition switch is “ON”.

NOTE:

The selector lever cannot be moved out of “P” and into any of the other gear positions if the ignition key is turned to the “LOCK” position or if the key is removed from the switch.

1. Keep the foot brake pedal depressed and push the selector lever button to shift into a driving gear.
2. Release the parking brake and foot brake, then gradually start the vehicle in motion.

When the battery charge is low, the selector lever can be moved if the

ignition switch is in the “ACC” position.



WARNING

- *Do not depress the accelerator pedal while shifting from “P” or “N” to “R”, “D”, “2” or “1”. 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 higher, so use caution when shifting into a forward or reverse gear before the engine has warmed up.*
- *Never shift to “P” or “R” while vehicle is moving. This could cause an accident.*

- *On slippery roads, do not down-shift. 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 from “P” (Park)

If the ignition switch is in the “ON” position and the foot brake pedal is depressed, but the selector lever still cannot be moved out of “P” (Park), follow these instructions:

1. Shut the engine off and remove the key.
2. Apply the parking brake.

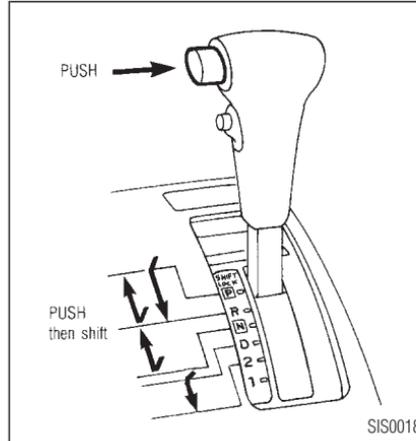
STARTING AND DRIVING

3. Reinsert the ignition key and turn it clockwise to the "ACC" position.
4. Depress the brake pedal, move the selector lever to "N" (Neutral) and start the engine.
5. Check stop light operation.

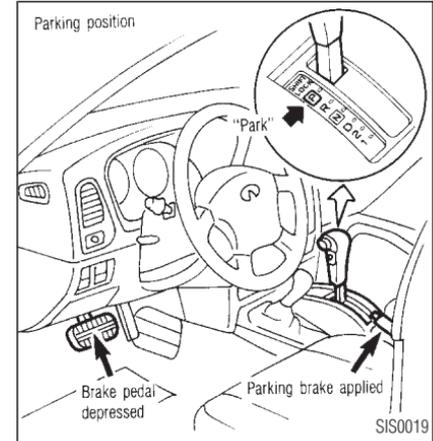
WARNING

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

These instructions for starting the vehicle in "N" (Neutral) should only be used until service can be obtained. Never drive the vehicle if the stop lights are not operating properly.



Push the button to shift into "P", or from "N" to "R", "P" to "R" and "D" to "2". All other positions can be selected without pushing the button.

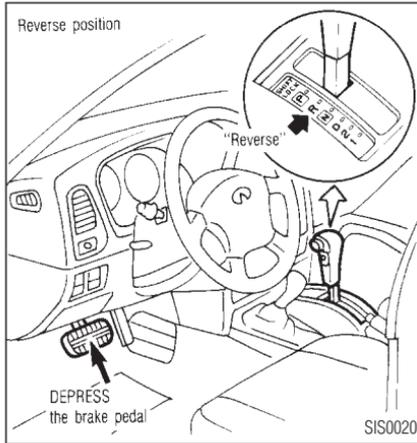


"P" (Park):

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 push in the selector lever button and move the lever to the "P" position. Apply the parking

STARTING AND DRIVING

brake. When parking on a hill, apply the parking brake first, then shift the lever into the “P” position.



“R” (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped when selecting “R”. With the brake pedal depressed,

push in the selector lever button and move the lever to the “R” position.

“N” (Neutral):

Neither forward or reverse gear is engaged. The engine can be started in this position. You may shift to “N” and restart a stalled engine while the vehicle is moving.

“D” (Drive):

Use this position for all normal forward driving.

“2” (Second gear):

Use for hill climbing or engine braking on downhill grades or starting on slippery roads.

Push in the selector lever button and move the selector lever from the “D” to “2” position.

Do not downshift into the “2” position at speeds over the following speeds and do not exceed the following speeds in the “2” position:

H (2WD AUTO):

60 MPH (95 km/h)

H (LOCK):

50 MPH (80 km/h)

4LO:

22 MPH (35 km/h)

“1” (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.

Do not downshift into the “1” position at speeds over the following speed and do not exceed the following speeds in the “1” position:

H (2WD AUTO):

30 MPH (50 km/h)

H (LOCK):

30 MPH (50 km/h)

4LO:

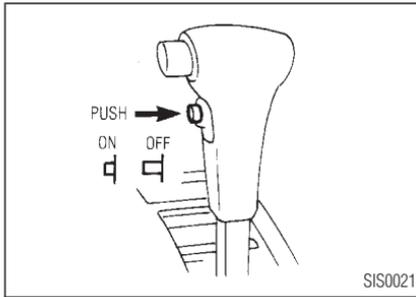
10 MPH (15 km/h)

STARTING AND DRIVING

Accelerator downshift — In “D” position —

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

Overdrive position



ON: For normal driving, push the overdrive switch “ON  ” with the selector switch in the “D” position. The transmission is upshifted into

OVERDRIVE as the vehicle speed increases.

The overdrive will not engage until the engine has warmed up.

OFF: For driving up and down long slopes where engine “braking” would be advantageous, push the switch “OFF  ”.

When cruising at a low speeds or climbing a gentle slope, you may feel uncomfortable shift shock as the transmission shifts between 3rd and overdrive repeatedly. In this case, set the overdrive switch in the “OFF  ” position.

The indicator light will come on at this time.

When driving conditions change, push the overdrive switch in the “ON  ” position.

Remember not to drive at high speeds for extended periods of time with the overdrive

switch set in the “OFF  ” position. This lowers the fuel economy.

Fail-safe

When the Fail-safe operation occurs, the next time the key is turned to the “ON” position, the O/D OFF 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 third 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

STARTING AND DRIVING

condition. If it does not return to its normal operating condition have your INFINITI dealer check the transmission and repair if necessary.

STARTING THE ENGINE

1. Apply the parking brake.
2. Move the selector lever to "P" (Park) or "N" (Neutral). ("P" preferred.)

NOTE:

The selector lever cannot be moved out of "P" and into any of the other gear positions if the ignition key is turned to "OFF" or if the key is removed from the switch.

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, depress the accelerator pedal and hold it to help start the engine.



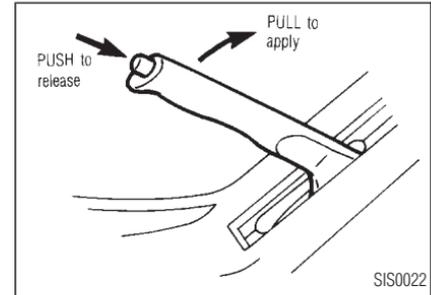
CAUTION

Do not operate the starter for more than 10 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.

PARKING BRAKE



To apply: pull the lever up.

To release:

1. Firmly apply the foot brake.
2. Move the selector lever to the "P" (Park) position.
3. While pulling up on the lever slightly, push the button and lower completely.
4. Before driving, be sure the brake warning light goes out.



WARNING

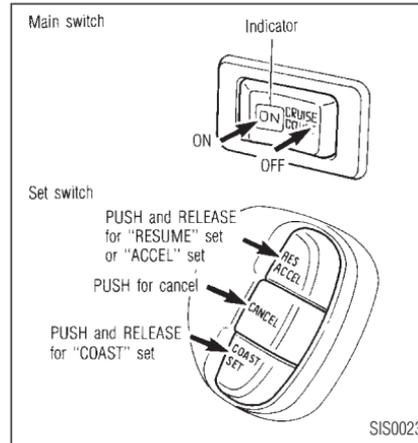
- **Be sure the parking brake is fully released before driving. Failure to do so can cause brake failure and lead to an accident.**
- **Do not release the parking brake from outside the vehicle.**
- **Do not use the gear shift in place of the parking brake. When parking, be sure the parking brake is fully engaged.**
- **Do not leave children unattended in a vehicle. They could release the parking brake and cause an accident.**

CRUISE CONTROL

The cruise control allows driving at a speed

STARTING AND DRIVING

between 30 to 90 MPH (48 to 144 km/h) without keeping your foot on the accelerator pedal.



To turn on the cruise control, push the main switch on. The indicator light on the switch will come on.

To set cruising speed, accelerate your

vehicle to the desired speed, push the COAST/SET switch and release it. (The "CRUISE" light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **When passing a vehicle**, depress the accelerator pedal. When you release the pedal, the vehicle will return to the previously set speed.
- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

To cancel the preset speed, follow any of these methods:

- a) Push the cancel button; The "CRUISE" light will go out.
- b) Tap the brake pedal; The "CRUISE" light will go out.
- c) Turn the main switch off. Both the "ON" indicator and "CRUISE" lights will go out.

STARTING AND DRIVING

- If you depress the brake pedal while pushing the “ACCEL/RESUME” 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 more than 8 MPH (13 km/h) below the set speed.
- Move the selector lever to the “N” position. The “CRUISE” light will go out.

To reset at a faster cruising speed, use one of the following methods:

- a) Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the “COAST/SET” switch.
- b) Push and hold the “ACCEL” set switch. When the vehicle attains the speed you desire, release the switch.
- c) Push, then quickly release the “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:

- a) Lightly tap the brake pedal. When the vehicle attains the desired speed, push the “COAST/SET” switch and release it.
- b) Push and hold the “COAST/SET” switch. Release the switch when the vehicle slows down to the desired speed.
- c) 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 “RESUME” set switch. The vehicle will resume the last set cruising speed when the vehicle speed is over 30 MPH (48 km/h).

Precautions

- If the cruise control system malfunctions,

it will cancel automatically. The cruise indicator in the meter assembly will then blink to warn the driver.

- If the cruise indicator blinks, turn the cruise control switch (Main switch) “OFF” and have the system checked by your INFINITI dealer.
- The cruise indicator may sometimes blink when the cruise control switch (Main switch) is turned “ON” while pushing the “ACCEL/RESUME” switch or “COAST/SET” switch or “CANCEL” switch (located on the steering wheel). To properly set the cruise control system, perform the steps above in the order indicated. (This is a fail-safe mode. Turn the main switch “OFF” and turn it “ON” again without pushing the set switch to return to normal operation.)



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.***

STARTING AND DRIVING

BREAK-IN SCHEDULE

Your driving habits during the first 1,000 miles (1,600 km) of vehicle operation are important to the future reliability and economy of your new INFINITI. Listed below are driving recommendations that will allow proper break-in of engine components. Driving the vehicle too hard during the break-in may result in vehicle damage or shortened engine life.

- Do not run the engine over 4,000 rpm.

Do not drive over the following speed limits:

H position:

50 MPH (80 km/h)

4L0 position:

30 MPH (50 km/h)

- Do not accelerate hard in top gear.
- Avoid quick starts and full acceleration.
- Avoid hard stops as much as possible.
- For the first 300 miles (500 km), it is

recommended that you drive in the 2-wheel drive (H) position.

- Do not tow a trailer for the first 500 miles (800 km).

ECONOMY HINTS

- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway.
- Driving at high speeds will lower fuel economy.
- 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.

STARTING AND DRIVING

- 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.
- Use “LOCK” position only when necessary. “LOCK” operation lowers fuel economy.

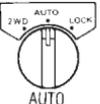
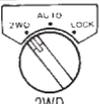
USING 4WD

TRANSFER CASE SHIFTING PROCEDURES

The transfer case is used to shift from the 2WD to the 4WD mode or vice versa.

Four types of drive mode can be selected using the transfer shift lever and 4WD shift switch.

STARTING AND DRIVING

| Transfer Lever Position | 4WD Shift Switch | Wheels Driven | Indicator Light | Use Conditions |
|-------------------------|---|--|---|--|
| H (high range) |  | Rear wheels or 4 wheels (Adjusted automatically) |  | For driving on paved or slippery roads. |
| |  | Rear wheels |  | For driving on dry, paved roads. |
| |  | 4 wheels |  | For driving on rocky, sandy or snow-covered roads. |
| N (neutral) | AUTO or LOCK | Neutral |  | Neutral disengages the automatic transmission mechanical parking lock, which will allow the vehicle to roll. Do not leave the transfer shift lever in "N". |
| 4LO (low range) | AUTO or LOCK | 4 wheels |  | For use when maximum power and traction is required (for example on steep grades or rocky, sandy, muddy roads.) |

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H (2WD) — Only the rear wheels are driven. Use when driving under the same conditions as standard 2WD vehicle.

H (AUTO) — Torque distributed to the front and rear wheels changes automatically, depending on road conditions encountered.

H (LOCK) — Four wheels are driven. Use when driving on roads where it is difficult to drive in the H (2WD) position (i.e., driving at normal speeds on snow covered, rocky or sandy roads).

The "H (LOCK)" position provides maximum power and traction. **Avoid excessive speed, as it will cause loss of traction. Speed over 50 MPH (80 km/h) in H (LOCK) is not recommend.**

N — No wheels are driven. Always keep the transfer shift lever out of the "N" position. Shift the lever quickly and smoothly when moving across the "N"

STARTING AND DRIVING

position with the vehicle stopped. The “N” position disengages the automatic transmission mechanical parking lock, which will allow the vehicle to roll unexpectedly. Do not leave the transfer shift lever in “N”.

4LO — Four wheels are driven. Use when climbing or descending steep hills, or during hard driving in sand, mud or deep snow. The “4LO” position provides maximum power and traction. **Avoid raising vehicle speed excessively, as the maximum speed is approximately 30 MPH (50 km/h).**

- The indicator light blinks while shifting from one drive mode to the other. It illuminates after shifting the drive mode. If the indicator light does not change illumination during drive mode shifts, look around the vehicle to check that safety is ensured. Set the steering wheel to the

straight-ahead position, then shift the drive mode while accelerating or decelerating the engine or backing up the vehicle.

- With the shift lever set to the “4LO” position, set the 4WD shift switch to either the AUTO or the LOCK position. If the 4WD shift switch is set to the 2WD position, moving the shift lever to the “H” position will set the drive system in the 2WD mode. This will cause the drive system to stick.
- If the shift lever is set midway between the “H” and the “4LO” position, the 4WD warning light will sometimes illuminate. When this occurs, move the shift lever to the “H” or “4LO” position.
If the key switch is turned off after the above condition, the 4WD warning light goes out.

- Limited slip differential equipped model:
Traction performance is high, so when making a turn on paved roads, vibration and tire squealing may occur.



WARNING

- *If the rear wheels spin on snow-covered roads, etc., do not attempt to operate the shift lever or 4WD shift switch.*
- *When parking the vehicle, apply the parking brake and shift the transfer control lever in the “H” or “4LO” position. Do not leave between the “H” and “4LO” positions. Otherwise, the vehicle could roll unexpectedly even if the automatic transmission is in*

STARTING AND DRIVING

the “P” position.

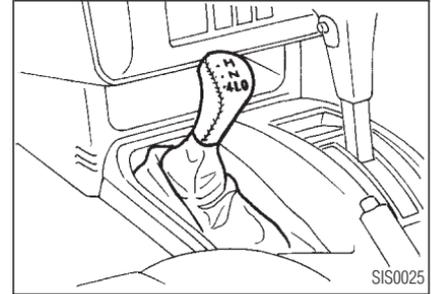
- If the ATP lamp is “ON”, this indicates that the automatic transmission “park” position will not function and the transfer shift lever is in the “N” position. Failure to engage the transfer shift lever in “H” or “4LO” could result in the vehicle moving unexpectedly, resulting in serious personal injury or property damage.
- While warming up the engine, idling speed becomes high. Be especially careful when starting or driving on slippery surfaces.

CAUTION

Do not drive the vehicle in the “H” (LOCK) or “4LO” position on dry pavement. Doing so will apply an undue strain on the 4WD mechanism, resulting in damage. It also may cause premature wear to the tires or increase fuel consumption.

Transfer shift lever

Move the transfer shift lever to the “H” or “4LO” position, depending on operating conditions.



Shifting the transfer shift lever

1. Stop the vehicle.
2. Move the selector lever to the “N” position.
3. Move the transfer shift lever from “H” to “4LO” or from “4LO” to “H” position.

Transfer “4LO” indicator light will come on when the transfer shift lever is set in the “4LO” position with the ignition key in the “ON” position.

STARTING AND DRIVING

WARNING

If the ATP lamp is “ON”, this indicates that the automatic transmission “park” position will not function and the transfer shift lever is in the “N” position. Failure to engage the transfer shift lever in “H” or “4LO” could result in the vehicle moving unexpectedly, resulting in serious personal injury or property damage.

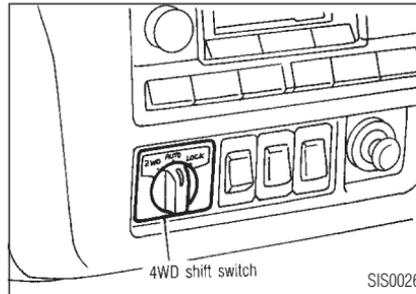
CAUTION

- Never shift the transfer shift lever while the vehicle is moving.
- Shift the transfer shift lever quickly and smoothly when moving across the “N” position with

the vehicle stopped.

4WD shift switch

- The 4WD shift switch is effected when the transfer shift lever is set to the “H” position.
- The 4WD shift switch is shifted to either the 2WD, AUTO or LOCK position, depending on driving conditions.



Operating the 4WD shift switch

1. Set the steering wheel to the straight-ahead position.

If the 4WD shift switch is operated while making a turn, accelerating or decelerating or if the key switch is turned off while in the 4WD mode, you may feel a jerk. This is not abnormal.

2. Turn the knob to the 2WD, AUTO or LOCK position.

- With the knob set to the AUTO position, distribution of torque to the front and rear wheels changes automatically, depending on road conditions encountered. This results in improved driving stability.

When the vehicle is stopped after making a turn, you may feel a slight jolt after the selector lever is shifted to “N” or “P”. This is because the transfer clutch is released and not because of a malfunction.

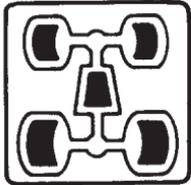
STARTING AND DRIVING

- With the shift lever set to the 4LO position, the 4WD shift switch is not effected.

CAUTION

Before placing the 4WD shift switch in the “LOCK” position, ensure the vehicle speed is less than 50 MPH (80 km/h).

4WD indicator light



SIS0027

The 4WD indicator light is located in the tachometer.

The light should turn off within 1 second after turning the ignition switch to “ON”.

While the engine is running, the 4-wheel drive indicator light will illuminate the position selected by the transfer shift lever and/or 4WD shift switch.

The 4-wheel drive indicator light will blink while shifting from one drive mode to the other.

CAUTION

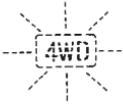
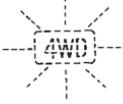
- **When the 4WD shift switch is shifted to the AUTO position at low ambient temperatures, the 4WD indicator light shows LOCK. In this case, torque distribution is in the vicinity of the LOCK condi-**

tion. Be careful as tight braking phenomenon will occur, or the vehicle may become difficult to turn. If the vehicle is operated for some time, the 4WD indicator light indication changes to AUTO.

- **If the 4WD indicator light indication changes to 2WD when the 4WD shift switch is shifted to the AUTO or LOCK position at low ambient temperatures, the 2WD mode may be being engaged due to malfunctioning drive system. If the indicator does not return to normal and the 4WD warning light comes on, have the system checked by the nearest INFINITI dealer.**

STARTING AND DRIVING

4WD warning light

| Warning light | Comes on or blinks when |
|---|---|
|  Comes on | There is a malfunction in the 4-wheel drive system. |
|  Blinks rapidly | The transfer oil temperature rises abnormally. |
|  Blinks slowly | The difference in wheel rotation is large. |

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The 4WD warning light is located in the meter.

If the transfer shift lever is set in the “N” position, the 4WD warning light may illuminate. When this occurs, move the transfer shift lever to the “H” or “4LO” position.

The 4WD warning light comes on when the key switch is turned to “ON”. It turns off soon after the engine is started.

If any problem occurs when the key switch is “ON”, the warning light will either remain illuminated or blink.

If the 4WD warning light comes on, the 4WD indicator light goes out.



CAUTION

If the warning light comes on or blinks during operation, have your vehicle checked by an authorized INFINITI dealer as soon as possible.

DRIVING SAFETY PRECAUTIONS

Your INFINITI is designed for both normal and off-road use. However, avoid driving in deep water or mud as your INFINITI is mainly designed for leisure use, unlike a conventional off-road vehicle.



WARNING

- ***Drive carefully when off the road and avoid dangerous areas. Always wear your seat belts to help keep you and your passengers in position when driving over rough terrain.***
- ***Do not drive across steep slopes. Instead drive either straight up or straight down the slopes. Off-road vehicles can tip over sideways***

STARTING AND DRIVING

much more easily than they can forward or backward.

- *Many hills are too steep for any vehicle. If you drive up them, you may stall. If you drive down them, you may not be able to control your speed. If you drive across them, you may roll over.*
- *Stay alert when driving to the top of a hill. At the top there could be a drop-off or other hazard that could cause an accident.*
- *If your engine stalls or you cannot make it to the top of a steep hill, never attempt to turn around. Your vehicle could tip or roll over. Always back straight down in reverse gear. Never back down in neutral (N), using only the*

brake, as this could cause loss of control.

- *Heavy braking going down a hill could cause your brakes to over-heat and fade, resulting in loss of control and an accident. Apply brakes lightly and use a low gear to control your speed.*
- *Unsecured cargo can be thrown around when driving over rough terrain. Properly secure it so that it will not be thrown forward and cause injury to you or your passengers.*
- *Avoid raising the center of gravity by loading things on the roof or equipping the vehicle with tires larger than specified in this manual. This could cause your*

vehicle to rollover. Put heavy loads in the cargo area as far forward and as low as possible.

- *Do not grip the inside or spokes of the steering wheel when driving off-road. The steering wheel could jerk and injure your hands. Instead drive with your fingers and thumbs on the outside of the rim.*
- *Before operating the vehicle, ensure that the driver and all passengers have their seat belts fastened.*
- *Always drive with the floor mats in place as the floor may become very hot. Particular care should be taken if you are barefoot.*

STARTING AND DRIVING

- *Lower your speed when encountering strong crosswinds. With its higher center of gravity, your INFINITI is more affected by gusty side winds. Slower speeds ensure better vehicle control.*
- *Do not drive beyond the performance of the tires even with 4WD.*

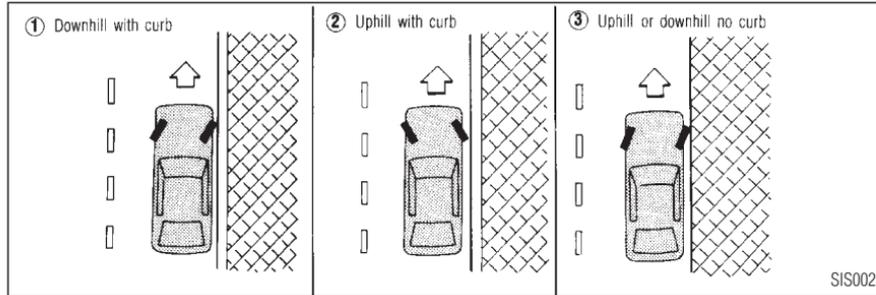
Accelerating quickly, sharp steering maneuvers or sudden braking may cause loss of control.

- *Install the same size of winter tires on all four (4) wheels (such as studless tires) or install tire chains to the rear wheels when driving on slippery roads (e.g., after a snow) and drive carefully.*

- *Be sure to check the brakes immediately after driving in mud or water as specified in “WET BRAKES” under the heading “Precautions when driving”.*
- *Avoid parking your vehicle on steep hills. If you get out of the vehicle and it rolls forward, backward or sideways, you could be injured.*
- *Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required. For details, refer to “Maintenance under severe driving conditions” under the heading “Maintenance schedule”.*

STARTING AND DRIVING

PARKING/PARKING ON HILLS



WARNING

- Do not park the vehicle over flammable materials such as dry grass, waste paper or rags, as they may burn easily.
- The transfer shift lever must be in

the “H” or “4LO” position and the parking brake set to prevent the vehicle from rolling.

- Never place the transfer shift lever in the “N” position, otherwise, the vehicle could roll unexpectedly even if the automatic transmission is in the “P” posi-

tion. This could result in serious personal injury or property damage.

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



WARNING

Safe parking procedures require setting the parking brake and placing the selector lever into the “P” (park) position. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident. Make sure the shift lever has been pushed as far forward as it can go and cannot be moved without depressing the button at the end of the lever.

STARTING AND DRIVING



WARNING

If the ATP lamp is “ON”, this indicates that the automatic transmission “park” position will not function and the transfer shift lever is in the “N” position. Failure to engage the transfer shift lever in “H” or “4LO” could result in the vehicle moving unexpectedly, resulting in serious personal injury or property damage.

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.



WARNING

- ***Never leave children unattended in the vehicle.***
- ***Never leave the engine running while the vehicle is unattended.***

POWER STEERING SYSTEM

The power assisted steering is designed to use a hydraulic pump, driven by the engine, to assist steering.

If the engine stops or 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.

BRAKE SYSTEM

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

Vacuum assisted brake

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.

STARTING AND DRIVING

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.

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, before going down a slope or long grade, reduce speed and downshift to a lower gear.



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.

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

STARTING AND DRIVING

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.

If a tire slips on rough roads for more than 10 seconds, the ABS brake warning light may come on. Turn OFF the ignition key, restart the engine and drive the vehicle at speeds above 20 MPH (30 km/h). If the warning light does not go out, have the vehicle checked at an INFINITI dealer.

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 check, or while you are driving, you should take your vehicle to your INFINITI dealer for repair at your earliest convenience.



WARNING

The anti-lock brake system is a sophisticated device, but it cannot pre-

vent 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 self and others rests in the hands of the driver.

Tire type and condition may also affect braking effectiveness.

- ***When replacing tires, install the specified size of tires on all 4***

wheels.

- **When installing a spare tire, make sure it is the proper size and type as specified on the tire placard. For tire placard location information, refer to “Tire placard” in the “Technical and consumer information” section of this Owner’s Manual.**

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.

Anti-freeze

When it is anticipated that the temperature will drop below 32°F (0°C), check the anti-freeze

STARTING AND DRIVING

(ethylene glycol base) to assure proper winter protection. For details, see “Engine cooling system” in the “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 details, see “Battery” in the “Do-it-yourself” section.

Draining of coolant water

If the vehicle is to be left outside without anti-freeze, drain the cooling system by opening the drain valves located under the radiator and on the engine block. Refill before operating the vehicle. See “Changing engine coolant” in the “Do-it-yourself” section.

Tire equipment

1. SUMMER tires are of a tread design to provide superior performance on dry pave-

ment. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, INFINITI recommends the use of MUD & SNOW or ALL SEASON tires on all four wheels. Please consult your INFINITI dealer for the tire type, size, speed rating and availability information.

2. For additional traction on icy roads, studded tires may be used. However, some provinces and states prohibit their use. Check local, state and provincial laws before installing studded tires.

Skid and traction capabilities of studded snow tires, on wet or dry surfaces, may be poorer than that of non-studded snow tires.

3. Tire chains may be used if desired. Make sure they are of proper size for the tires on your vehicle and are installed according to

STARTING AND DRIVING

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.

Do not use tire chains on dry roads.

Special winter equipment

It is recommended that the following items be carried in the vehicle during winter:

1. A scraper and stiff-bristled brush to remove ice and snow from the windows and wiper blades.
2. A sturdy, flat board to be placed under the jack to give it firm support.
3. A shovel to dig the vehicle out of snow-drifts.
4. Extra window washer fluid to refill the reservoir tank.

Driving on snow or ice



WARNING

- ***Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on.***

The vehicle will have 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***

STARTING AND DRIVING

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/
Engine heater (if so equipped)*

An engine block heater/engine heater to assist extreme cold temperature starting is available through your INFINITI dealer.



WARNING

Do not use your heater with an ungrounded electrical system or two-pronged (cheater) adapters. You can be injured by an electrical shock if you use an ungrounded connection.

5 IN CASE OF EMERGENCY

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| Flat tire | 5-2 |
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ROADSIDE ASSISTANCE PROGRAM

Every new INFINITI comes with a 4 year, unlimited mileage Roadside Assistance plan. In the event of a roadside emergency, Roadside Assistance Service is available to you. Please refer to your Warranty Booklet 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 four 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.

IN CASE OF EMERGENCY

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".



WARNING

The transfer shift lever must be in the "H" or "4LO" position.

Never place the transfer shift lever in the "N" position. Otherwise, the vehicle could roll unexpectedly even if the automatic transmission is in

the "P" position. This could result in serious personal injury or property damage.

4. Turn off the engine.



WARNING

- ***Make sure the parking brake is securely applied and the automatic transmission is in "P".***
- ***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.***

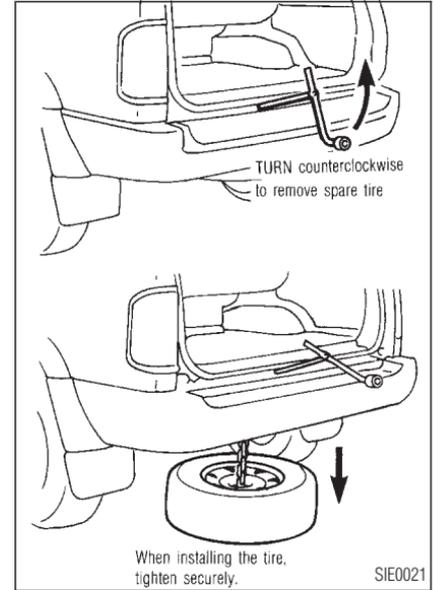
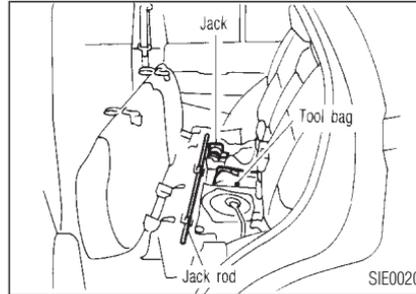
IN CASE OF EMERGENCY

5. Raise the hood to warn other traffic, and to signal professional road assistance personnel that you need help.
6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

If needed, Roadside Assistance is available. Please refer to your Warranty Booklet or Roadside Assistance I.D. Card for the toll-free number to call.

Getting the spare tire and tools

Remove jacking tools and spare tire from storage area.



Tightening torque of nuts:
48 to 66 ft-lb
(66 to 89 N-m)

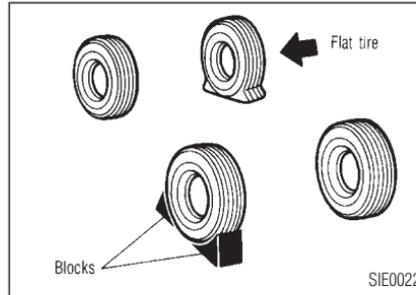
IN CASE OF EMERGENCY



CAUTION

- **Do not insert the jack rod straight as it is designed to be inserted obliquely.**
- **Make sure the rod tip fits in the fitting portion of the spare tire hanger and turn the rod.**
- **Be sure to center the spare tire suspending plate on the wheel and then lift the spare tire.**

Blocking wheels



Stop the engine and pull the parking brake lever all the way on.

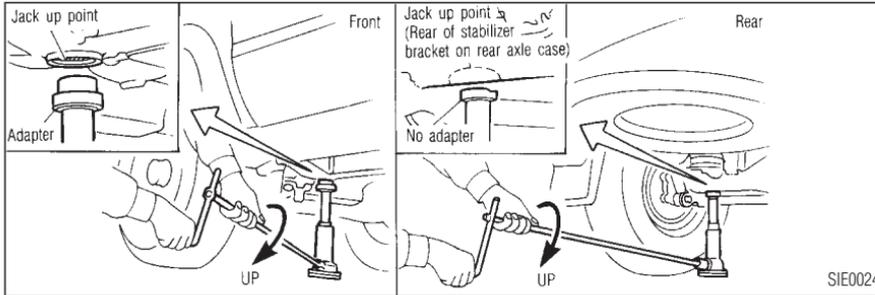
Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from rolling when it is jacked up.



WARNING

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

IN CASE OF EMERGENCY



Jacking up and removing wheel

Carefully read the following instructions.

1. Put the adapter stored in the tool bag on the jack when jacking up the front side.

Do not use the jack adapter for the rear.

2. Place the jack directly under the jack-up point.

The jack should be used on level firm ground.

3. 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.

4. 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 wheel. Do not remove the brake drum with the wheel.

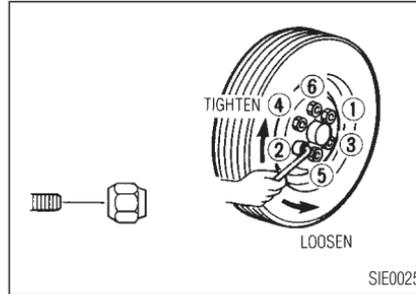
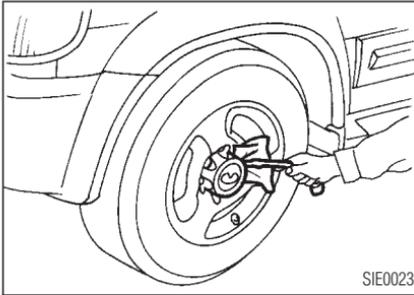


WARNING

- **Never get under the vehicle while it is supported only by the jack.**
- **Use 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.**

IN CASE OF EMERGENCY

- **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.**



Installing wheel

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 se-

curly 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:

87 to 108 ft-lb (118 to 147 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 affixed to the glove box lid.

Retighten the wheel nuts when the vehicle has been run for 600 miles (1,000 km) after installing the aluminum wheel.

5. Securely store the spare 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.

IN CASE OF EMERGENCY

JUMP STARTING

If you try to start your engine with a booster battery, follow the instructions and precautions below:



WARNING

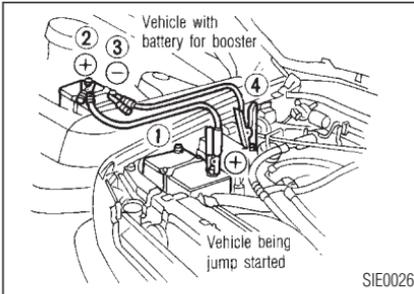
- ***If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.***
- ***Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from it.***
- ***Do not allow battery fluid 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 (e.g., goggles or industrial safety spectacles) and remove rings, metal bands, or any other jewelry. Do not lean over battery when jump starting.***

IN CASE OF EMERGENCY

- **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.**



⚠ CAUTION

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

1. Position the two vehicles to bring their batteries into close proximity to each other if the booster battery is in another vehicle. **Do not allow the two vehicles to touch.**
2. Apply parking brakes. Move the selector lever to "P". 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, engine lift bracket, etc. (not to the battery).**
 - **Make sure that cables do not touch any 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.

IN CASE OF EMERGENCY



CAUTION

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

IF YOUR VEHICLE OVERHEATS

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:



WARNING

- ***Do not continue to drive if your vehicle overheats. Doing so could cause a vehicle fire.***
- ***To avoid the danger of being burned, 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.***

IN CASE OF EMERGENCY

- **Do not open the hood if steam is coming out.**

1. Move the vehicle safely off the road, apply the parking brake and move the gearshift lever to the neutral position (automatic transmission to “P”).

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. If engine overheating is caused by climbing a long hill on a hot day, run the engine at a fast idle (approximately 1,500 rpm) until the temperature gauge indication returns to normal.
4. Get out of the vehicle. Look and listen for steam or coolant escaping from the radi-

tor before opening the hood. Wait until no steam or coolant can be seen before proceeding.

5. Open the engine hood.



WARNING

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

6. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking, the cooling fan 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 running fan or belts.

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

TOW TRUCK TOWING

When towing your vehicle, all State (Provincial in Canada) and local regulations for towing must be followed. Incorrect towing equipment could damage your vehicle. Towing instructions are available from your INFINITI dealer. Local service operators will generally be familiar with the applicable laws

IN CASE OF EMERGENCY

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.***

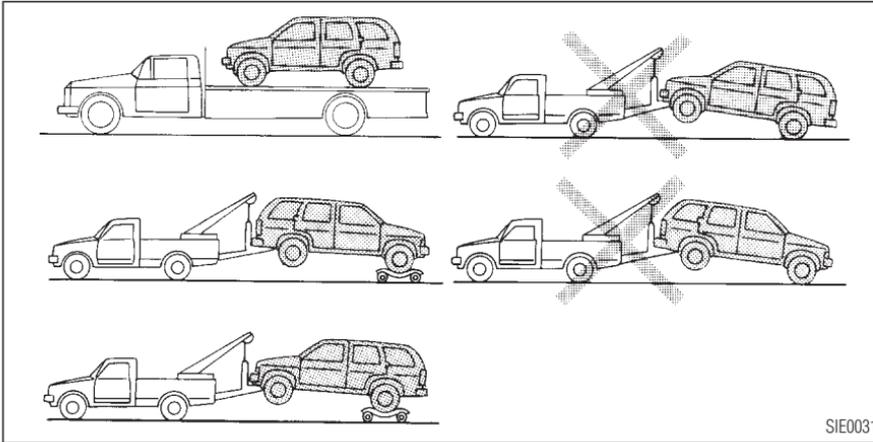


CAUTION

- ***When towing, make sure that the transmission, axles, steering system and power train are in good order. If any unit is damaged, a dolly must be used.***

- ***Attach safety chains for all towing.***

IN CASE OF EMERGENCY



INFINITI recommends that a dolly be used as illustrated when towing your vehicle or place it on a flat-bed truck.

If you have to tow your vehicle with four wheels on ground.

1. Release the parking brake.
2. Be sure to place the transfer case shift

lever into the "H" position and the transmission selector lever into the neutral ("N") position.

Observe the following restricted towing speeds and distances.

Automatic transmission model:

- **Speed: Below 30 MPH (50 km/h)**

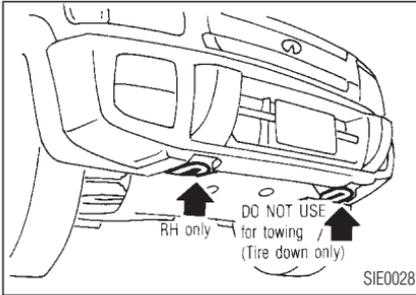
- **Distance: Less than 40 miles (65 km)**

If the speed or distance must necessarily be greater, remove the front and rear propeller shafts beforehand to prevent damage to the transmission.

CAUTION

Never tow your vehicle from the rear (i.e., backward) with four wheels on the ground as this may cause serious and expensive damage to the transmission.

IN CASE OF EMERGENCY



VEHICLE RECOVERY (Freeing a stuck vehicle)

- Use the towing **hook** only, not other parts of the vehicle. Otherwise, the vehicle body will be damaged.
- Use the towing hook **only** to free a vehicle stuck in sand, snow, mud, etc. **Never** tow the vehicle for a long distance using only the towing hook.
- The towing hook is under tremendous force when used to free a stuck vehicle.

Always pull the cable straight out from the front 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.

6 APPEARANCE AND CARE

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APPEARANCE AND CARE

CLEANING EXTERIOR AND INTERIOR

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 use 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.**

APPEARANCE AND CARE

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 dealer can assist you in choosing the proper product.

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

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

Removing spots

Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are available at your INFINITI dealer or automotive accessory stores.

Underbody

In areas where road salt is used in winter, the underbody must be cleaned regularly. This will prevent dirt and salt from building up and causing underbody and suspension corrosion. Before the winter period and again in the spring, the underseal must be checked and, if necessary, re-treated.

Cleaning glass

Use glass cleaner to remove smoke and dust film from the glass surfaces. It is normal for glass to become coated with a film after the vehicle is parked in the hot sun. Glass cleaner and a soft cloth will easily remove this film.



CAUTION

- ***When cleaning the inside of the window, do not use any sharp-edged tools, abrasive cleaners or chlorine based disinfectant cleaners.***
- ***These may damage the radio antenna elements or the rear window defogger.***

Cleaning 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.

APPEARANCE AND CARE

Bumpers and foldable mirrors

INFINITI recommends bumpers and foldable mirror housings be waxed with a non-abrasive wax from time to time to maintain appearance.

Cleaning interior

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

When interior trim or seats are stained, clean immediately as follows:

- Wipe clean using a clean, soft damp cloth and a neutral detergent. Wipe off all traces of the detergent with another clean soft damp cloth, finishing with a soft dry cloth.
- If the above method does not remove the stains, etc., rub the affected area using a soft wet brush and a neutral detergent. Wipe off all traces of the detergent with a clean soft damp cloth, finishing with a soft dry cloth.

Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

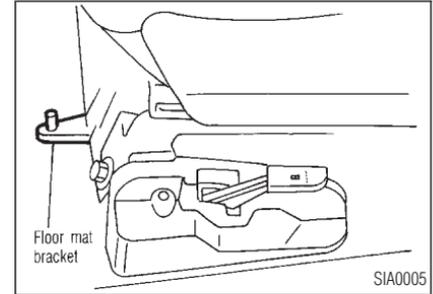
INFINITI offers vinyl and leather cleaner for more difficult stains or soiled surfaces. See your INFINITI dealer for assistance in choosing the proper product.



CAUTION

- ***Never use benzine, thinner or any similar material.***
- ***The 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.***

Floor mat positioning aid



This model includes a front floor mat bracket to act as a floor mat positioning aid. INFINITI floor mats have been specially designed for your vehicle model. The driver side floor mat has a grommet hole incorporated in it. Simply position the mat by placing the floor mat bracket hook through the floor mat grommet hole while centering the mat in the floorpan contour.

Periodically check to make certain that the mats are properly positioned.

APPEARANCE AND CARE

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.

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 belts to roll up in

the retractor. NEVER use bleach, dye, or chemical solvents since these may severely weaken the seat belt webbing.

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

APPEARANCE AND CARE

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

7 DO-IT-YOURSELF

| | | | |
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| Engine cooling system | 7-5 | Wiper blade | 7-18 |
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| Brake fluid | 7-13 | Fuses | 7-21 |
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DO-IT-YOURSELF

PRECAUTIONS

When performing any inspection or maintenance work on your vehicle, always take care to prevent serious accidental injury to yourself or damage to the vehicle. The following are general precautions which should be closely observed.



WARNING

- ***Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the selector lever to “P” (Park).***
- ***Be sure to turn the ignition key to the “OFF” or “LOCK” position when performing any replacement or repair.***

- ***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 remove ties and any jewelry, such as rings, watches, etc. before working on your vehicle.***
- ***If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases.***
- ***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 battery.***
- ***The fuel filter or fuel lines should be serviced by an INFINITI dealer because the fuel lines are under high pressure even when the engine is off.***



CAUTION

- ***Do not work under the hood while the engine is hot. Turn off the engine and wait until it cools down.***
- ***Never connect or disconnect either the battery or any transistor-***

DO-IT-YOURSELF

ized component connector while the ignition is on.

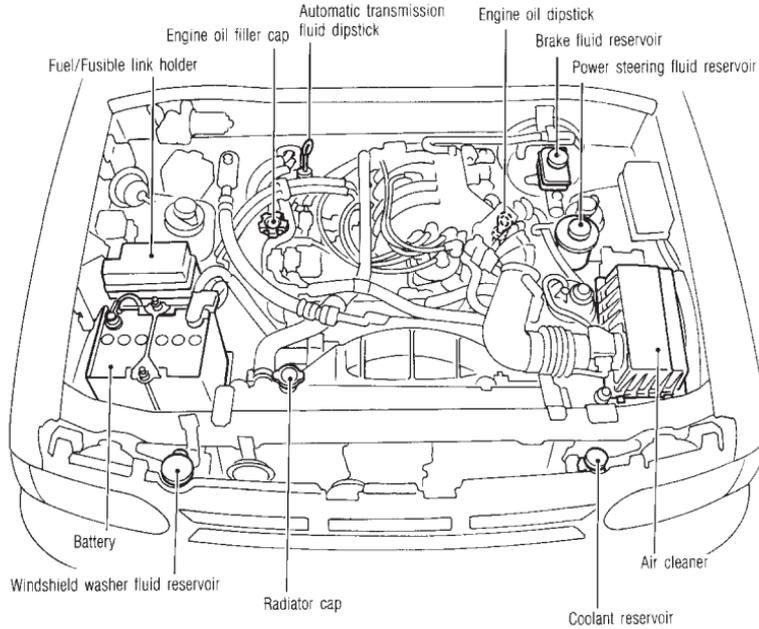
- ***Avoid direct contact with used engine oil. Improperly disposed motor oil and/or other vehicle fluids can hurt the environment. Always conform to local regulations for disposal of vehicle fluid.***

This “Do-it-yourself” section gives instructions regarding only those items which are relatively easy for most owners to perform. More involved service should be done by your INFINITI dealer.

You should be aware that incomplete or improper servicing may result in operating difficulties or excessive emissions, and could affect your warranty coverage. **If in doubt about any servicing, have it done by your INFINITI dealer.**

DO-IT-YOURSELF

CHECK LOCATIONS IN ENGINE COMPARTMENT



SID0082

DO-IT-YOURSELF

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, use only an ethylene glycol anti-freeze with the proper mixture ratio of 50% antifreeze and 50% distilled water.

The use of other types of coolant solutions may damage your engine cooling system.

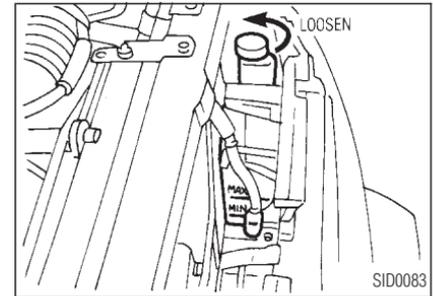
| Outside temperature down to | | Anti-freeze | Distilled water |
|-----------------------------|-----|-------------|-----------------|
| °C | °F | | |
| -35 | -30 | 50% | 50% |

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 precautions in “If your vehicle overheats” found in the “In case of emergency” section.**
- **The radiator is equipped with a**

pressure cap. Use a genuine cap or its equivalent when replacement is required.

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

DO-IT-YOURSELF

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 dealer.

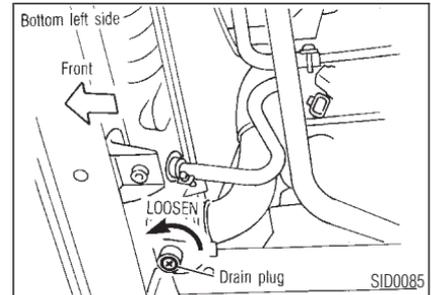
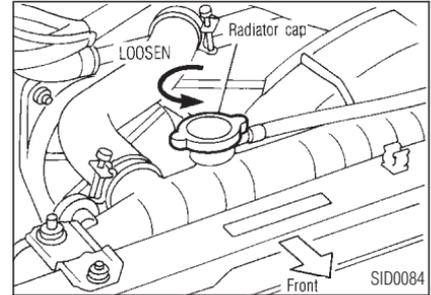
CHANGING ENGINE COOLANT

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



WARNING

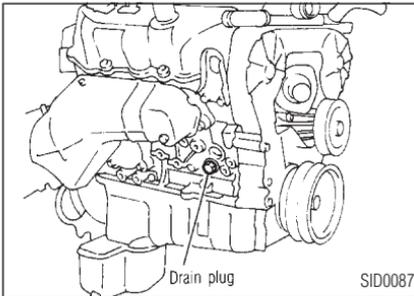
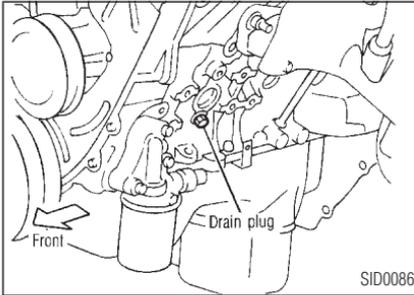
- *To avoid the danger of being scalded, never change the coolant when the engine is hot.*
 - *Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.*
1. Perform the following procedure to open the heater water cock.
 - Turn the ignition key from “OFF” to “ON”.
 - Move the heater or air conditioner temperature control dial to the maximum hot position then turn the ignition key to “OFF”.



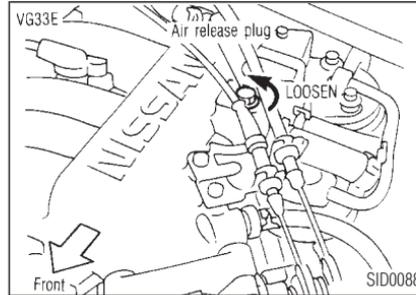
2. Open the radiator drain plug and radiator cap.

DO-IT-YOURSELF

Open the drain plugs on both sides of the engine block.



3. Open the air release plug to drain the coolant.



4. Flush the cooling system by running fresh water through the radiator.
5. Close the radiator drain plug and engine block drain plugs securely.
6. See the "Technical information" section for cooling system capacity.

Fill the radiator slowly with the proper mixture of coolant and water. Fill the reservoir tank slowly up to the "MAX"

level. Then install the radiator cap and close the air release plug.

7. Start the engine and warm it up until it reaches normal operating temperature. Then race the engine 2 or 3 times under no load.

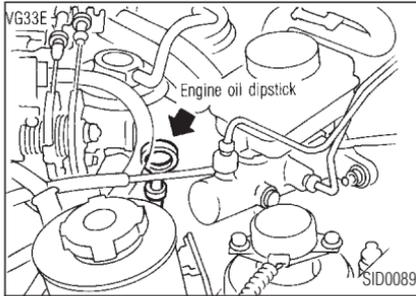
Watch the coolant temperature gauge for signs of overheating.

8. 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.
9. Check the radiator drain plug and engine block drain plugs for any sign of leakage.

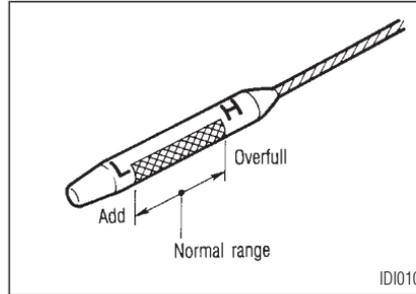
DO-IT-YOURSELF

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 10 minutes for the oil to drain back into the oil pan.**



4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be 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.**
6. Recheck oil level with dipstick.

It is normal to add some oil between oil maintenance intervals or during the

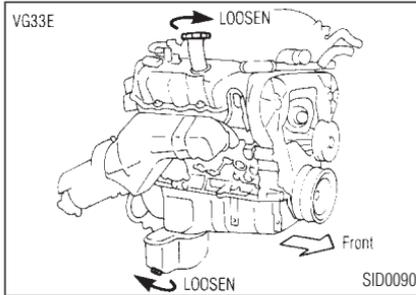
break-in period, depending on the severity of operating conditions.

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.

DO-IT-YOURSELF

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, and then turn it off.
3. Place a large drain pan under the drain plug.
4. Remove the oil filler cap.
5. 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 “Changing the oil filter”.



CAUTION

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

Waste oil must be disposed of properly. Check your local regulations.

6. Clean and re-install the drain plug and washer. 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.

7. Refill the engine with recommended oil and install the cap securely.

See the “Technical information” section for oil type and refill capacity.

8. Start the engine.

Check for leakage around the drain plug. Correct as required.

9. Turn the engine off and wait several minutes. Check the oil level. Add engine oil if necessary.

10. Dispose of waste oil in the proper manner.



WARNING

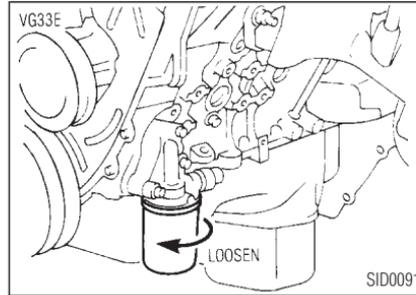
- ***Prolonged and repeated contact with used engine oil may cause skin cancer.***
- ***Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap or hand cleaner as soon as***

DO-IT-YOURSELF

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. (A special **cap-type** wrench will assist with oil filter removal on models with the V6 engine. This tool can be purchased from your INFINITI

dealer.) Then remove the oil filter by turning it by hand.



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.
7. Start the engine and check for leakage around the oil filter. Correct as required.
8. Turn the engine off and wait several

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minutes. Check the oil level. Add engine oil if necessary.

AUTOMATIC TRANSMISSION FLUID

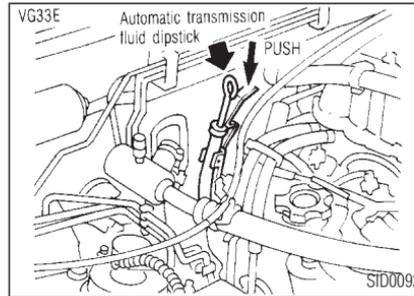
WARNING

- **When the engine is running, keep hands, jewelry and clothing away from any moving parts such as fan drive belt.**
- **Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.**

TEMPERATURE CONDITIONS FOR CHECKING

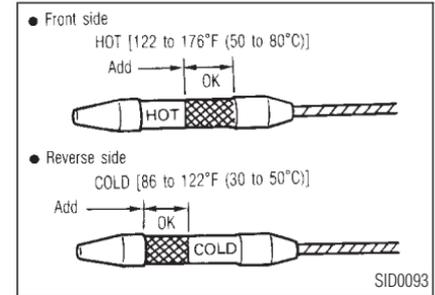
The fluid level should be checked using the “HOT” range (“L” & “H” marks) on the

dipstick at fluid temperatures between 122 and 176°F (50 and 80°C) after the vehicle has been driven approximately 5 minutes in urban areas after the engine is warmed up. The level can be checked at fluid temperatures between 86 and 122°F (30 and 50°C) using the “COLD” range on the dipstick for reference, after the engine is warmed up but before driving. However, the fluid level must be rechecked using the “HOT” range.



1. Park the vehicle on a level surface and set the parking brake.

2. Start the engine and then move the selector lever through each gear range ending in “P”.



3. Check the fluid level with the engine idling.
4. Expand the spring stopper and remove the dipstick. Wipe it clean with lint-free paper.
5. Reinsert the dipstick into the charging pipe as far as it will go.
6. Remove the dipstick and note the reading. If the level is at the low side of either

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range, add fluid to the charging pipe.

- When inserting the dipstick, set it so that the spring stopper presses the upper part of the dipstick rubber to lock the dipstick.

CAUTION

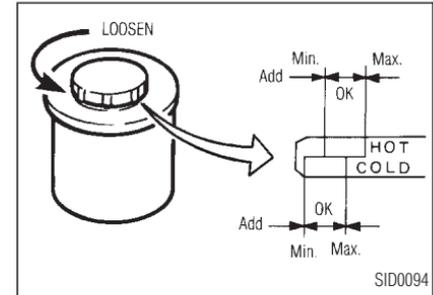
- Do not overfill.
- USE ONLY Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada). Dexron™ III/Mercon™ or equivalent may also be used. Outside the continental United States and Alaska contact an INFINITI dealer for more information regarding suitable fluids, including recommended brand(s) of Dexron™ III/Mercon™ or Dexron™ IIE/

Mercon® Automatic Transmission Fluid.

NOTE:

If the vehicle has been driven for a long time at high speeds, or in city traffic in hot weather, or if it is being used to pull a trailer, an accurate fluid level cannot be read. You should wait until the fluid has cooled down (about 30 minutes).

POWER STEERING 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).

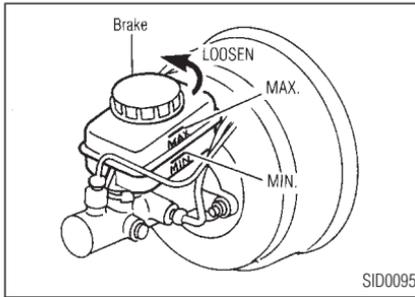
CAUTION

- Do not overfill.

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- **Recommended fluid is type DEXRON™IIIE, DEXRON™III 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 dealer.

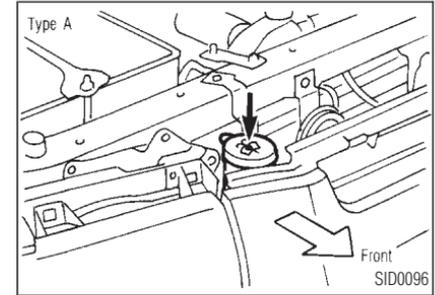
WARNING

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, wash with mild soap and water immediately.

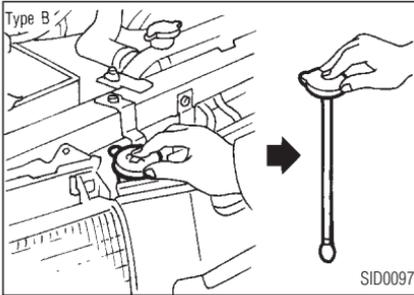
WINDOW WASHER FLUID



Type A

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.

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Type B

To check the fluid level, use your finger to plug the center hole of the cap/tube assembly (as shown above), then remove it from the tank. If there is no fluid in the tube, add fluid. 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 marked containers out of the reach of children.

CAUTION

Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.

BATTERY

- Keep the battery surface clean and dry. Any corrosion should be washed off with a solution of baking soda and water.
- Make certain the terminal connections are clean and securely tightened.

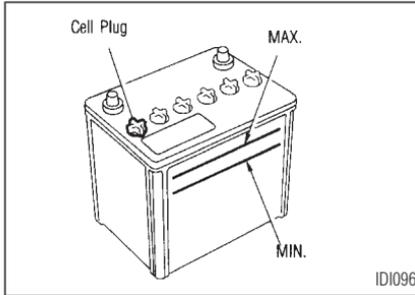
- If the vehicle is not to be used for 30 days or longer, disconnect the “—” negative battery terminal cable to prevent discharge.

WARNING

- *Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by battery action 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-IT-YOURSELF

- **When working on or near a battery, always wear suitable eye protection and remove all jewelry.**
- **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.

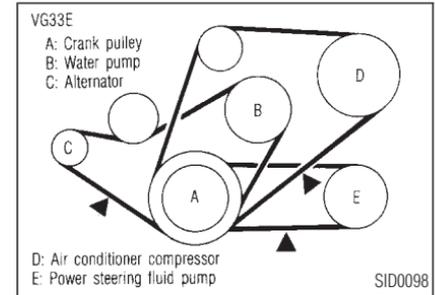
If it is necessary to add fluid, add only distilled water to bring the level to the indicator in each filler opening. **Do not overfill.**

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

JUMP STARTING

If jump starting is necessary, see the "In case of emergency" section. If the engine does not start by jump starting, the battery may have to be replaced. Contact your INFINITI dealer.

DRIVE BELTS



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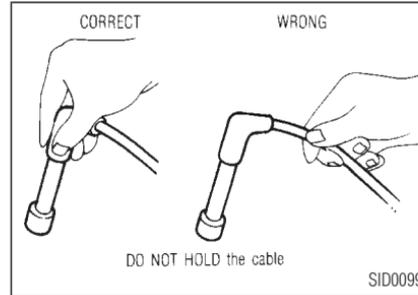


WARNING

**Be sure the ignition key is “OFF”.
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 dealer.
2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule in this manual.

SPARK PLUG REPLACEMENT

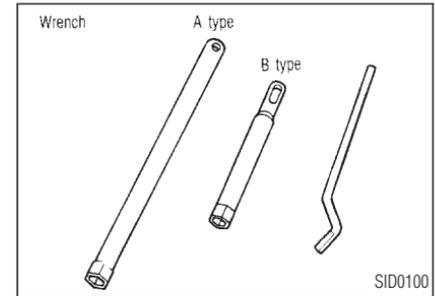


WARNING

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

1. Disconnect spark plug cables. Keep track of the original cable location.

When disconnecting, always hold the boots — not the cables. Mark all cables to identify their original location.



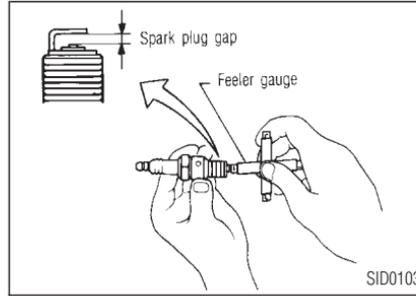
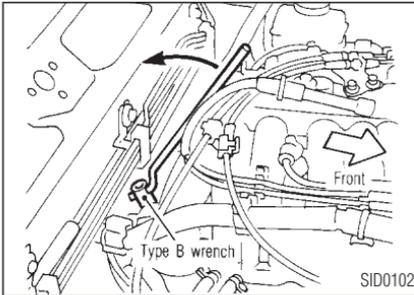
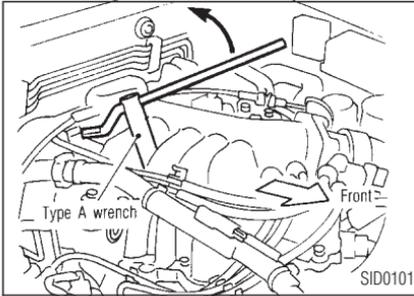
2. Remove spark plugs with a spark plug wrench. (Type A or B)



CAUTION

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

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3. Check each new spark plug gap with a feeler gauge. Correct it as required.
4. Install spark plugs.

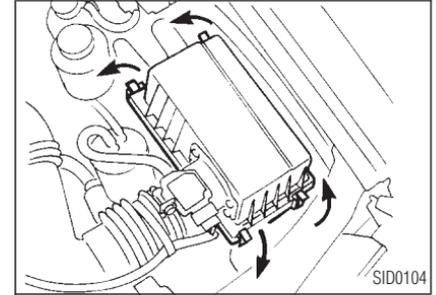
When installing a plug, turn it in two or three turns by hand and then tighten with a spark plug wrench. Be careful not to overtighten it.

Tightening torque:

14 to 22 ft-lb (20 to 29 N-m)

5. Reconnect the spark plug cables to their original positions.

AIR CLEANER



Viscous paper type

The filter element should not be cleaned and reused. Replace it according to the maintenance intervals shown in the "Maintenance" section. When replacing the filter, wipe the inside of the air cleaner housing and the cover with a damp cloth.

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WARNING

Operating the engine with the air cleaner off 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 is not there, and the engine backfires, you could be burned. Do not drive with it off, and be careful working on the engine with the air cleaner off.

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.

WIPER BLADE

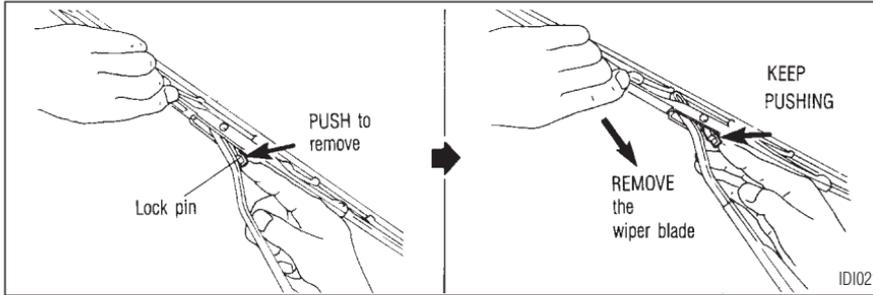
1) CLEANING

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

DO-IT-YOURSELF

2) REPLACEMENT



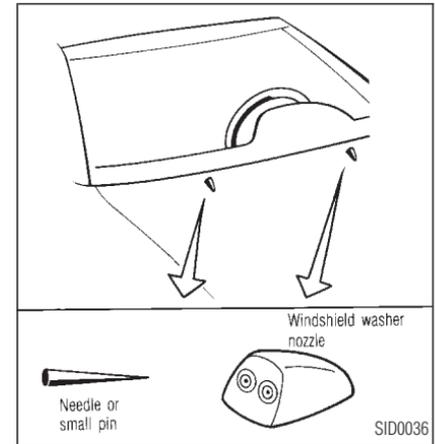
1. Pull the wiper arm.
2. Push the lock pin, then remove the wiper blade.
3. Insert the new wiper blade to the wiper arm until a click sounds.

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.

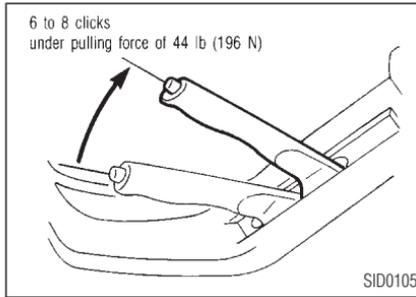


If you wax the surface of the hood, be careful not to let wax get into the washer nozzle. This may cause clog-

DO-IT-YOURSELF

ging or improper windshield washer operation. If wax gets into the nozzle, remove it with a needle or small pin.

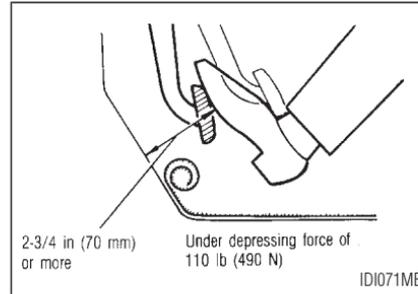
PARKING BRAKE



Pull the parking brake lever up. If the number of clicks is out of the range as listed above, see your INFINITI dealer.

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 dealer.



Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

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

parking brake is applied. If the brake pedal goes down farther than normal, it may be due to a lack of adjustment of the rear drum brakes. Apply the parking brake several times.



WARNING

See your INFINITI dealer for a brake system check if the brake pedal height does not return to normal.

Brake pad wear indicators

The disc brake pads on your vehicle have audible wear indicators. When a brake pad requires replacement, it will make a high pitched scraping or screeching sound when the vehicle is in motion whether or not the brake pedal is depressed. Have the brakes checked as soon as possible if the wear indicator sound is heard.

Under some driving or climate conditions,

DO-IT-YOURSELF

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 dealer.

Proper brake inspection intervals should be followed. For more information regarding brake inspections, see the appropriate maintenance schedule information in the “Maintenance Schedule” section of this manual.

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 one 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.

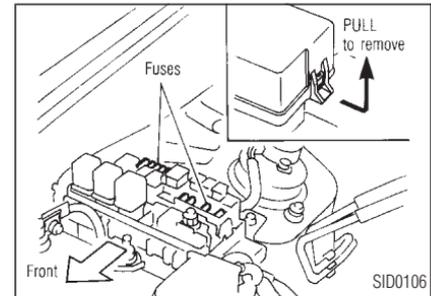
If the brakes do not operate properly, see your INFINITI dealer.

FUSES



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

Engine compartment



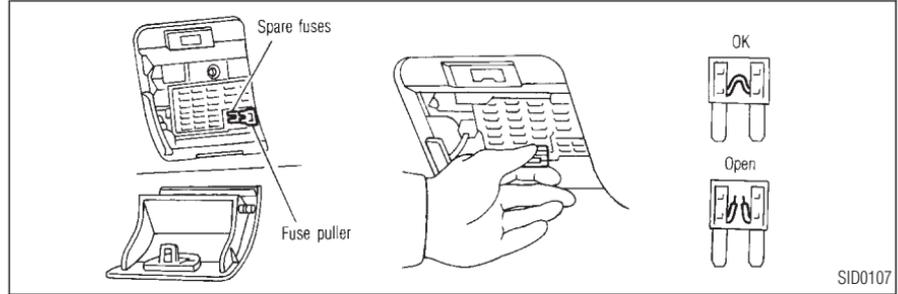
If any electrical equipment does not operate,

DO-IT-YOURSELF

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 dealer.

Passenger compartment



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

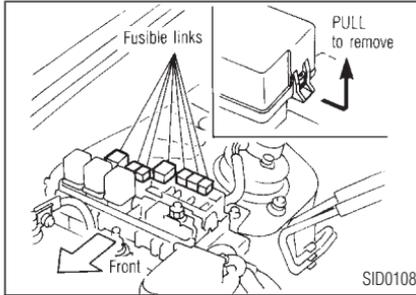
1. Be sure the ignition key and the headlight switch are "OFF".
2. Pull to open the fuse box cover/coin tray.
3. Pull the fuse box cover/coin tray horizontally to remove it.
4. Remove the fuse with the fuse puller.

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 dealer.

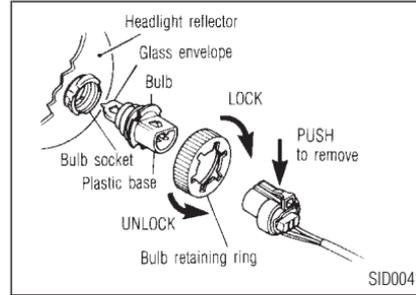
DO-IT-YOURSELF

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 dealer.

LIGHT BULBS



HEADLIGHTS

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. A bulb can be replaced from inside the engine compartment without removing the headlight assembly.

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.

Removing the headlight bulb

1. Disconnect the battery negative cable.
2. Disconnect the electrical connector from the rear end of the bulb.
3. Turn the bulb retaining ring counterclockwise until it is free from the headlight reflector, then remove it.
4. Remove the headlight bulb. Do not shake or rotate the bulb when removing it.

DO-IT-YOURSELF

Replacing the headlight bulb

1. Insert the bulb into the headlight reflector with the flat side of the plastic base facing upward.
2. Install the bulb retaining ring and turn it clockwise until it stops.
3. Push the electrical connector into the bulb plastic base until it snaps and stops.
4. Connect the battery negative cable.



CAUTION

DO NOT TOUCH THE BULB.

- **Use the same number and wattage as originally installed:**
Wattage 65/45
Bulb no. 9004
- **Aiming is not necessary after replacing the bulb. When aiming**

adjustment is necessary, contact your INFINITI dealer.

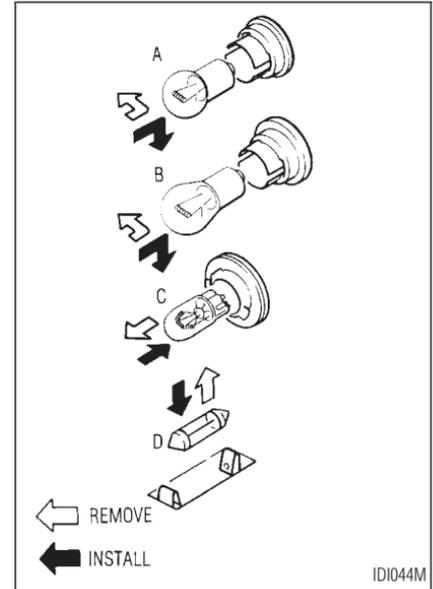
- ***Do not leave the bulb out of the headlight reflector for a long period of time as dust, moisture, and smoke may enter the headlight body and affect the performance of the headlight.***

DO-IT-YOURSELF

OTHER LIGHTS

| Item | Wattage (W) | Bulb No. |
|-----------------------------------|-------------|----------|
| Front turn signal light | 27 | 1156 |
| Front fog light (H3 type) | 55 | |
| Clearance light/Side marker light | 5 | 168 |
| Rear combination light | | |
| Turn signal | 27 | 1156 |
| Stop/Tail | 27/8 | 1157 |
| Back-up | 27 | 1156 |
| High mounted stop light | 5 | 168 |
| License plate light | 5 | 168 |
| Interior light | 10 | — |
| Vanity mirror light | 1.4 | — |
| Spot light | 8 | — |

Replacement procedures



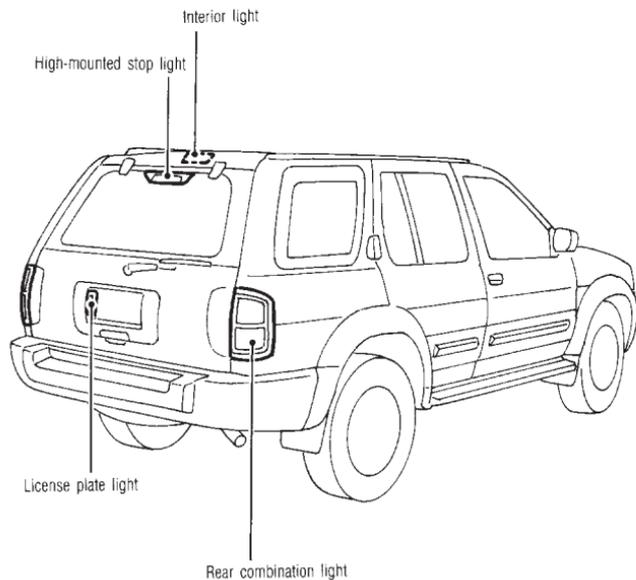
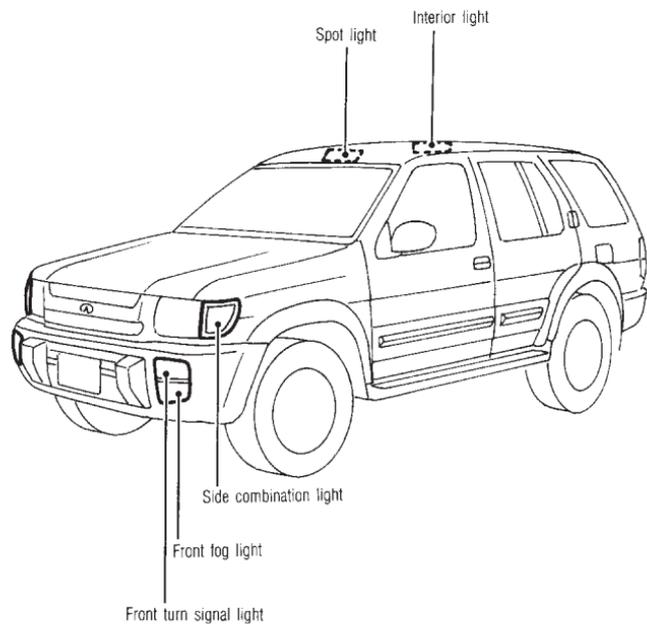
All other lights are either type A, B or C. When

DO-IT-YOURSELF

replacing a bulb, first remove the lens and/or cover .

DO-IT-YOURSELF

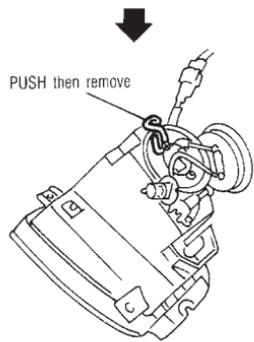
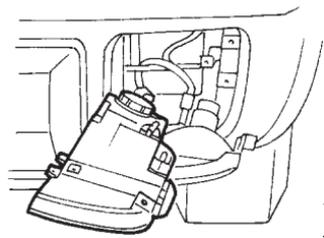
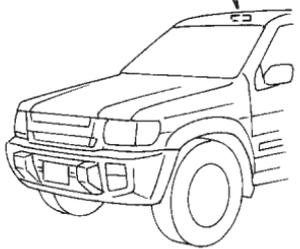
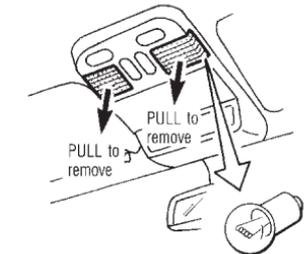
LIGHT LOCATION



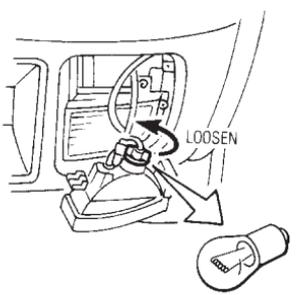
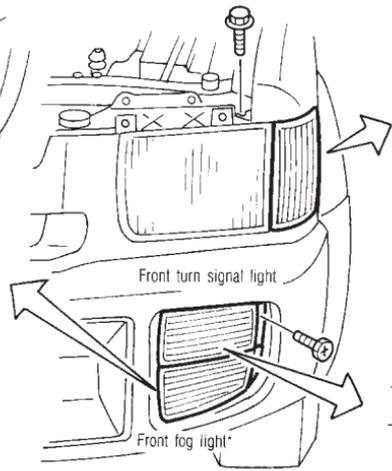
SID0109

DO-IT-YOURSELF

Spot light



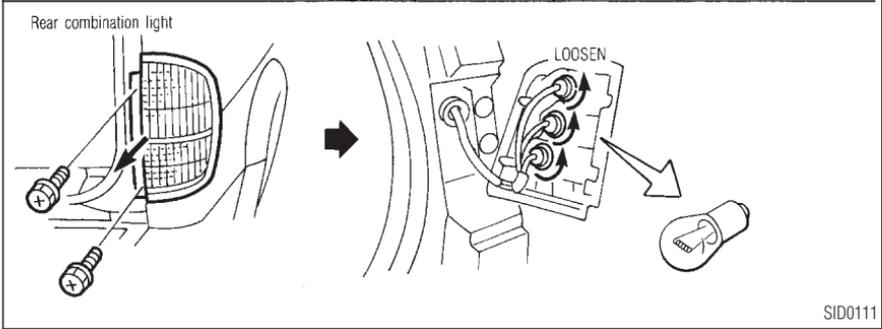
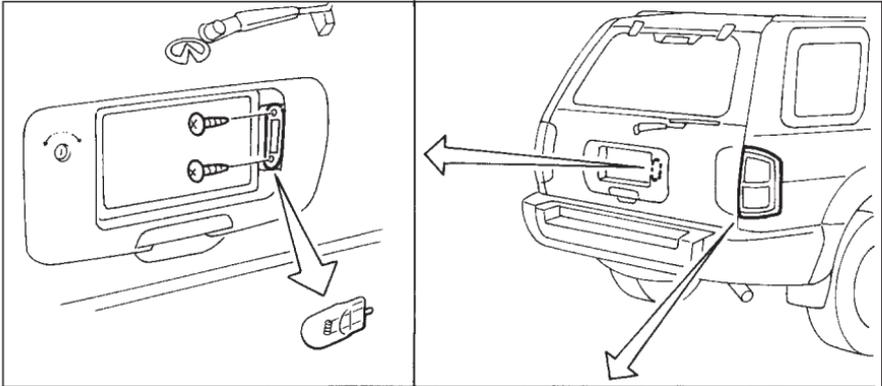
Side combination light



* Remove after removing front turn signal light.

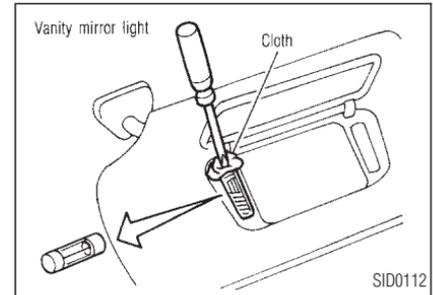
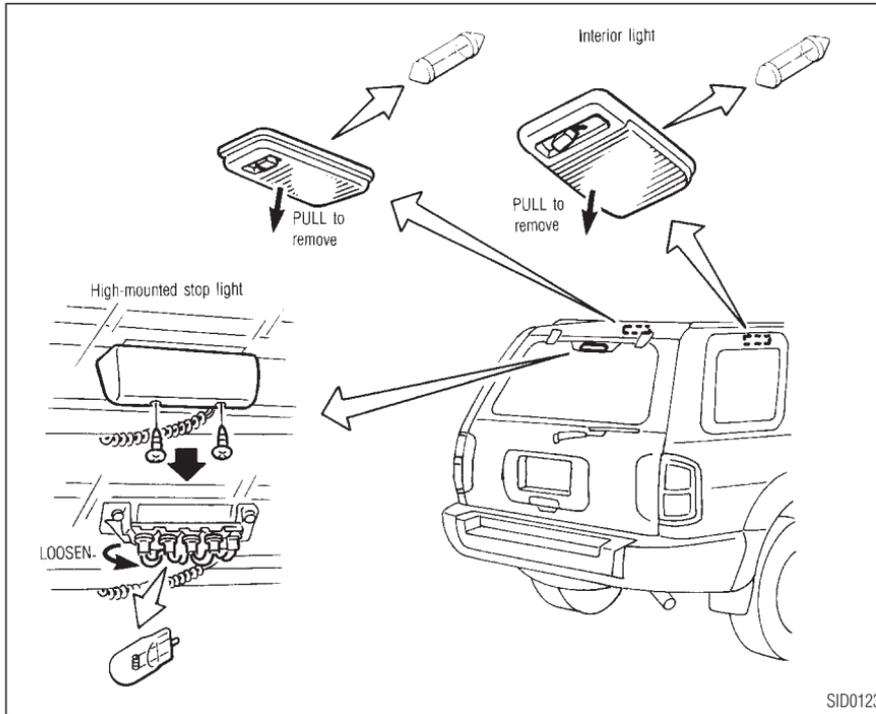
SID0110

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SID0111

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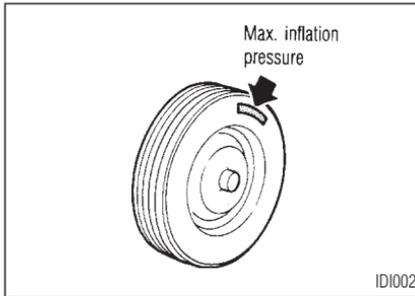


DO-IT-YOURSELF

WHEELS AND TIRES

If you have a flat tire, see “In case of emergency” section.

Maximum inflation pressure



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

Tire inflation pressure

Periodically check the tire pressure (including spare). Incorrect tire pressure may adversely affect tire life and vehicle handling. Tire pres-

sure should be checked when the tires are COLD. Tires are considered COLD after the vehicle has been parked for three or more hours, or driven less than 1 mile (1.6 km). COLD tire pressures are shown on the tire placard affixed to the center console lid.



WARNING

- **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 pressure is 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.**

DO-IT-YOURSELF

Types of tires



CAUTION

When changing or replacing tires, be sure all four tires are of the same type (i.e., Summer, All Season or Snow) and construction. Your INFINITI dealer may be able to help you with information about tire type, size, speed rating and availability. Replacement tires may have a lower speed rating than the factory equipped tires, and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

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.

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.

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.

4-wheel drive model

If you install snow tires, they must also be the same size, brand, construction and tread pattern on all four wheels.



CAUTION

ONLY use spare tires specified for each 4-wheel drive model.

Tire chains

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire

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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.

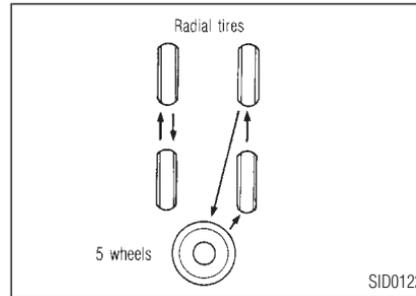
Do not use the chains on dry roads.

Tire chains must be installed only on the rear wheels and not on the front wheels.

Do not drive with tire chains on paved roads

which are clear of snow. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress. When driving on clear paved roads, be sure to change to 2WD.

Tire rotation



INFINITI recommends that tires be rotated every 3,750 miles (6,000 km).

**Wheel nut tightening torque:
87 to 108 ft-lb
(118 to 147 N-m)**

See "Flat tire" in the "In case of emergency" section for tire replacing procedures.

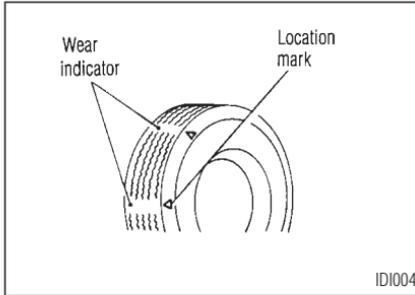


WARNING

- **After rotating the tires, adjust the tire pressure.**
- **Retighten the wheel nuts any time after the aluminum wheels have been run for the first 600 miles (1,000 km) after re-installation.**

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Tire wear and damage



WARNING

Tires should be inspected periodically 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 a built-in tread wear indicator. When the wear indicator is visible, the tire should be replaced.

Changing tires and wheels

When replacing a tire, use the same size and load carrying capacity as the original equipment tires. Recommended types and sizes are shown in "Wheels & tires" in the "Technical information" section.

WARNING

- *The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely*

versely affect the ride, braking, handling, ground clearance, body-to-tire clearance, snow chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.

- *If the wheels are changed for any reason, always replace with wheels which have the same offset dimension. Wheels of a different offset could cause early tire wear, possibly degraded vehicle handling characteristics and/or interference with the brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake*

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pad/shoe wear.

- ***Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.***

4-WHEEL DRIVE MODELS



CAUTION

Always use tires of the same size, brand, construction (bias, bias-belted or radial), and tread pattern on all four wheels. Failure to do so may result in a circumference difference between tires on the front and rear axles which will cause excessive tire wear and may damage the

transmission, transfer case and differential gears.

If excessive tire wear is found, it is recommended that all four tires be replaced with tires of the same size, brand, construction and tread pattern. The tire pressure and wheel alignment should also be checked and corrected as necessary. Contact your INFINITI dealer.

ONLY use spare tires specified for each 4-wheel drive model.

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.

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.

8 MAINTENANCE

| | |
|----------------------------|-----|
| General maintenance | 8-2 |
| Periodic maintenance | 8-5 |

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 dealer.

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 dealer.

INFINITI technicians are well-trained specialists and are kept up to date with the latest service information through technical bulletins, service tips, and in-dealership informa-

tion systems. They are completely qualified to work on INFINITI vehicles **before** work begins.

You can be confident that your INFINITI dealer's service department performs the best job to meet the maintenance requirements on your vehicle — in a reliable and economic way.

GENERAL MAINTENANCE

During the normal day-to-day operation of the vehicle, general maintenance should be performed regularly as prescribed in this section. If you detect any unusual sounds, vibrations or smell, be sure to check for the cause or have your INFINITI dealer do it promptly. In addition, you should notify your INFINITI dealer if you think that repairs are required.

When performing any checks or maintenance work, closely observe the precautions in the "Do-it-yourself" section.

MAINTENANCE

Additional information on the following items with “*” is found in the “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 periodically when at a service station, 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 3,750 miles (6,000 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.

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* 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 buzzers/chimes Make sure that all warning lights and buzzers/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

MAINTENANCE

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 (e.g. 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 and booster* 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 “Park” mechanism On a fairly steep hill check that your vehicle is held securely with the selector lever in the “P” position without applying any brakes.

UNDER THE HOOD AND VEHICLE

The maintenance items listed here should be checked periodically e.g. 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.

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. (Be sure to wait a few minutes to allow the oil to drain back into the sump.)

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.

MAINTENANCE

Automatic transmission fluid level*

Check the level after putting the selector lever in "P" with the engine idling.

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 the carbon monoxide warning in the "Starting and driving" section.)

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. See the "Appearance and care" section for additional information.

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

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.**

MAINTENANCE

- **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.

Maintenance for off-road driving

Whenever you drive off-road through sand, mud or water as deep as the wheel hub, more frequent maintenance may be required of the following items:

- ▲ Brake pads and discs
- ▲ Brake lining and drums
- ▲ Brake lines and hoses
- ▲ Wheel bearing grease
- ▲ Differential, transmission and transfer oil
- ▲ Steering linkage
- ▲ Propeller shafts and front drive shafts
- ▲ Air cleaner filter

These items should be checked frequently to assure safe and proper operation of your vehicle.

MAINTENANCE

SCHEDULE 1

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

[] : At the mileage intervals only

| MAINTENANCE OPERATION | MAINTENANCE INTERVAL | | | | | | | | | | | | | | | | |
|--|-------------------------------|-------------|-------------|---------------|------------|---------------|--------------|---------------|------------|---------------|--------------|---------------|------------|---------------|--------------|---------------|--|
| | Miles × 1,000 (km × 1,000) | 3.75 (6) | 7.5 (12) | 11.25 (18) | 15 (24) | 18.75 (30) | 22.5 (36) | 26.25 (42) | 30 (48) | 33.75 (54) | 37.5 (60) | 41.25 (66) | 45 (72) | 48.75 (78) | 52.5 (84) | 56.25 (90) | 60 (96) |
| Perform at number of miles, kilometers or months, whichever comes first. | Months | 3 | 6 | 9 | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
| Emission control system maintenance | | | | | | | | | | | | | | | | | |
| Drive belts | | | | | | | | | | I* | | | | | | | I* |
| Air cleaner filter | See NOTE (1) | | | | | | | | | [R] | | | | | | | [R] |
| Vapor lines | | | | | | | | | | I* | | | | | | | I* |
| Fuel lines | | | | | | | | | | I* | | | | | | | I* |
| Fuel filter | See NOTE (2)* | | | | | | | | | | | | | | | | |
| Engine coolant | See NOTE (3) | | | | | | | | | | | | | | | | R* |
| 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 |
| Spark plugs | | | | | | | | | | [R] | | | | | | | [R] |
| Timing belt | | | | | | | | | | | | | | | | | Replace every 105,000 miles (168,000 km) |

- NOTE:**
- (1) If operating mainly in dusty conditions, more frequent maintenance may be required.
 - (2) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become clogged. In such an event, replace them immediately.
 - (3) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.
- ★ 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.

MAINTENANCE

SCHEDULE 1

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

| MAINTENANCE OPERATION | MAINTENANCE INTERVAL | | | | | | | | | | | | | | | | |
|--|----------------------|------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|
| | Miles × 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 |
| Perform at number of miles, kilometers or months, whichever comes first. | (km × 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, discs, drums & linings | | | I | | I | | I | | I | | I | | I | | I | | I |
| Automatic transmission & all mode 4WD transfer fluid & differential gear oil (ex. LSD) | See NOTE (1) | | | | I | | | | I | | | | I | | | | I |
| Limited-slip differential (LSD) gear oil | See NOTE (1) | | | | I | | | | R | | | | I | | | | R |
| Steering gear linkage & transfer gear, axle & suspension parts | | I | | I | I | | I | | I | | I | | I | | I | | I |
| Drive shaft boots & propeller shaft | | I | | I | I | | I | | I | | I | | I | | I | | I |
| Propeller shaft grease | See NOTE (2) | | L | | L | | L | | L | | L | | L | | L | | L |
| Steering linkage ball joints & front suspension ball joints | | I | | I | I | | I | | I | | I | | I | | I | | I |
| Front wheel bearing grease | See NOTE (3) | | | | I | | | | R | | | | I | | | | R |
| Exhaust system | | I | | I | I | | I | | I | | I | | I | | I | | I |
| Supplemental air bag system | See NOTE (4) | | | | | | | | | | | | | | | | |

- NOTE:**
- (1) If towing a trailer, using a camper or a car-top carrier, or driving on rough/muddy roads, change (not just inspect) fluid (A/T, all mode 4WD transfer)/oil at every 30,000 miles (48,000 km) or 24 months except for LSD, and change LSD gear oil at every 15,000 miles (24,000 km) or 12 months for LSD.
 - (2) The propeller shaft should be re-greased daily if it is immersed in water.
 - (3) If operating frequently in water, replace grease every 3,750 miles (6,000 km) or 3 months.
 - (4) Inspect the supplemental air bag system 10 years after the date of manufacture noted on the F.M.V.S.S. certification label.

MAINTENANCE

SCHEDULE 2

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

[]: At the mileage intervals only

| MAINTENANCE OPERATION | MAINTENANCE INTERVAL | | | | | | | | | |
|--|-------------------------------|-------------|------------|--------------|------------|--------------|------------|--------------|------------|--|
| | Miles × 1,000 (km × 1,000) | 7.5 (12) | 15 (24) | 22.5 (36) | 30 (48) | 37.5 (60) | 45 (72) | 52.5 (84) | 60 (96) | |
| Perform at number of miles, kilometers or months, whichever comes first. | Months | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 | |
| Emission control system maintenance | | | | | | | | | | |
| Drive belts | | | | | | I* | | | | I* |
| Air cleaner filter | | | | | | [R] | | | | [R] |
| Vapor lines | | | | | | I* | | | | I* |
| Fuel lines | | | | | | I* | | | | I* |
| Fuel filter | See NOTE (1)* | | | | | | | | | |
| Engine coolant | See NOTE (2) | | | | | | | | | R* |
| Engine oil | | 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 |
| Spark plugs | | | | | | [R] | | | | [R] |
| Timing belt | | | | | | | | | | Replace every 105,000 miles (168,000 km) |

NOTE: (1) If vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filters might become clogged. In such an event, replace them immediately.

(2) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.

★ 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.

MAINTENANCE

SCHEDULE 2

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

| MAINTENANCE OPERATION | MAINTENANCE INTERVAL | | | | | | | | |
|---|-------------------------------|-------------|------------|--------------|------------|--------------|------------|--------------|------------|
| | Miles × 1,000 (km × 1,000) | 7.5 (12) | 15 (24) | 22.5 (36) | 30 (48) | 37.5 (60) | 45 (72) | 52.5 (84) | 60 (96) |
| Perform at number of miles, kilometers or months, whichever comes first. | Months | 6 | 12 | 18 | 24 | 30 | 36 | 42 | 48 |
| Chassis and body maintenance | | | | | | | | | |
| Brake lines & cables | | | I | | I | | I | | I |
| Brake pads, discs, drums & linings | | | I | | I | | I | | I |
| Automatic transmission & all mode 4WD transfer fluid & differential gear oil (exc. LSD) | | | I | | I | | I | | I |
| Limited-slip differential (LSD) gear oil | | | I | | R | | I | | R |
| Steering gear, linkage & transfer gear, axle & suspension parts | | | | | I | | | | I |
| Drive shaft boots & propeller shaft | | | I | | I | | I | | I |
| Propeller shaft grease | See NOTE (1) | | L | | L | | L | | L |
| Steering linkage ball joints & front suspension ball joints | | | | | | | | | I |
| Front wheel bearing grease | | | I | | R | | I | | R |
| Exhaust system | | | | | I | | | | I |
| Supplemental air bag system | See NOTE (2) | | | | | | | | |

NOTE: (1) The propeller shaft should be re-greased daily if it is immersed in water.

(2) Inspect the supplemental air bag system 10 years after the date of manufacture noted on the F.M.V.S.S. certification label.

MAINTENANCE

EXPLANATION OF MAINTENANCE ITEMS

Additional information on the following items with “*” is found in the “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.

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.

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.

Fuel filter If the vehicle is operated under extremely adverse weather conditions or in areas where ambient temperatures are either extremely low or extremely high, the filter might become clogged. In such an event, replace the filter immediately.

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.

Timing belt Replace the timing belt which drives the camshaft.

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 & discs 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 oil & differential gear oil* Visually inspect for signs of leakage. Under severe driving conditions, the 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.

Steering linkage ball joints & front

MAINTENANCE

suspension ball joints Check the ball joints for damage, looseness and grease leakage.

Propeller shaft(s) Check the propeller shaft(s) for damage, looseness and grease leakage under severe driving condition.

Propeller shaft grease Apply specified grease to the greasing points of propeller shafts in accordance with the maintenance schedule. In the case of driving in water, greasing should be performed immediately afterwards.

Front wheel bearing grease Check the wheel bearing grease condition or repack these in accordance with the maintenance schedule. In case of frequent driving in muddy water, the bearing grease inspection should be performed more frequently.

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.

Supplemental air bag system Check the supplemental air bag system components for proper attachment, damage, deformities, cracks, rust, etc. Work around and on the supplemental air bag system should be done by an authorized INFINITI dealer.

9 TECHNICAL AND CONSUMER INFORMATION

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TECHNICAL AND CONSUMER INFORMATION

MAJOR SYSTEMS AND HOW THEY WORK

The common theme that applies to almost all of the automotive systems described in this section is electronic controls. Because of their speed, precision and reliability, electronic components are used wherever possible to increase the efficiency and driveability of your INFINITI.

The typical control system employs “sensors”, which collect information about operating conditions and driver demand and send it, usually in the form of an electrical voltage signal, to an “engine control module”, which is a small, on-board computer. The engine control module monitors the information provided by the sensors, calculates the optimum or best control, and makes it happen through signals to electrical “actuators” in the engine or transmission or brake system—wherever the control must take place. The results can seem miraculous.

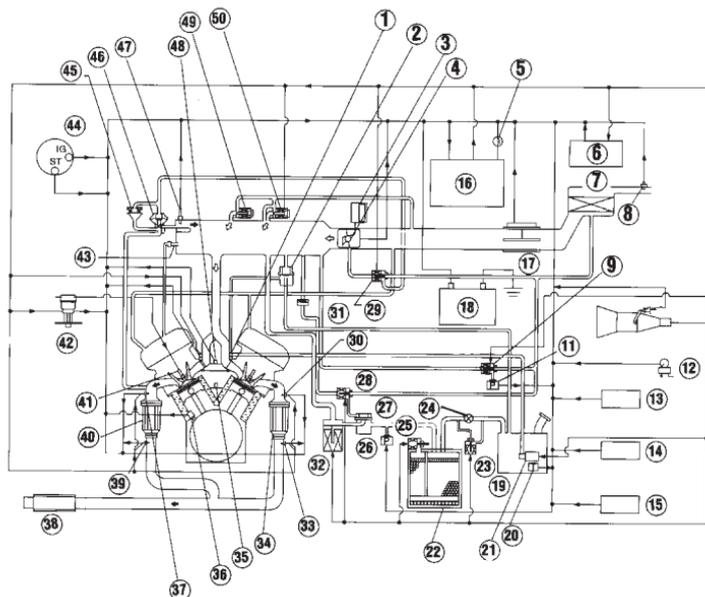
ENGINE AND DRIVE TRAIN

INFINITI VG33E Engine with Electronic Concentrated Engine Control System (ECCS)

SUMMARY—ECCS ENGINE

The magic of the ECCS system is that it coordinates the functions and control of air-fuel mixture, ignition timing, exhaust gas recirculation, and idle speed by the operation of a high-speed computer. The precisely coordinated control of all of these functions allows the engine to operate more efficiently and emission free than would have been possible under earlier technologies.

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↑ : Intake air flow
 ↓ : Exhaust air flow

- | | |
|--|--|
| ① Intactor | ③④ Three way catalyst |
| ② Fuel pressure regulator | ③⑤ Knock sensor |
| ③ Fast idle cam | ③⑥ Crankshaft position sensor (OBD) |
| ④ Throttle position sensor & closed throttle position switch | ③⑦ Front heated oxygen sensor |
| ⑤ Malfunction indicator lamp | ③⑧ Muffler |
| ⑥ A/T control unit | ③⑨ Rear heated oxygen sensor |
| ⑦ Air cleaner | ④① Three way catalyst |
| ⑧ Intake air temperature sensor | ④② Spark plug |
| ⑨ MAP/BARO switch solenoid valve | ④③ Ignition coil, power transistor and camshaft position sensor built into distributor |
| ⑩ Park/neutral position switch | ④④ PCV valve |
| ⑪ Absolute pressure sensor | ④⑤ Ignition switch |
| ⑫ Vehicle speed sensor | ④⑥ EGRC-BPT valve |
| ⑬ Air conditioner switch | ④⑦ EGR valve |
| ⑭ Power steering oil pressure switch | ④⑧ EGR temperature sensor |
| ⑮ Ambient air temperature switch | ④⑨ IACV-FICD solenoid valve |
| ⑯ ECM (ECCS control module) | ⑤① IACV-AAC valve |
| ⑰ Mass air flow sensor | |
| ⑱ Battery | |
| ⑲ Fuel tank | |
| ⑳ Tank fuel temperature sensor | |
| ㉑ Fuel pump | |
| ㉒ EVAP canister | |
| ㉓ Vacuum cut valve bypass valve | |
| ㉔ Vacuum cut valve | |
| ㉕ EVAP canister vent control valve | |
| ㉖ EVAP control system pressure sensor | |
| ㉗ EVAP canister purge control valve | |
| ㉘ EVAP canister purge control solenoid valve | |
| ㉙ EGRC-solenoid valve | |
| ㉚ Front heated oxygen sensor | |
| ㉛ One-way valve | |
| ㉜ EVAP canister purge volume control valve | |
| ㉝ Rear heated oxygen | |

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TECHNICAL AND CONSUMER INFORMATION

To get the most from an engine—in the way of performance, smooth driveability, economy and control of harmful emissions—a number of decisive factors must be controlled as precisely as possible under all driving conditions. These “factors” include the following:

- The timing and overlap of the intake and exhaust valves in relation to the position of the pistons in the engine.
- The mixture of air and fuel that enters the engine cylinders during each intake stroke of the pistons.
- The timing of the spark that ignites the pressurized charge of air and fuel near the end of the compression stroke of the pistons.
- The temperature of the combustion that occurs in the cylinders, especially under load.
- Engine idle speed under all conditions.

The engine in your INFINITI has degrees of precision in the automatic control of these factors that, only a few years ago, were not thought possible by any known technology. Such a high performance engine must operate smoothly and efficiently at all speed. And it must do so with a minimum of fuel consumption and a minimum of emissions into the environment.

MIXTURE CONTROL

A gasoline engine requires a relatively “rich” mixture of fuel to air during idle, a “lean” mixture for mid-range and “cruise” conditions, and a “richer” mixture for high load, high RPM operation. The changes in amount of fuel delivered to the engine must occur smoothly, sometimes in response to sudden changes in demand from the driver. The INFINITI ECCS can give the engine precisely the amount of fuel required for each condition, according to a precise measurement of the amount of air that is allowed into the engine

either through automatic devices provided for idle control or in response to your foot pressure on the vehicle throttle.

All of the atmospheric air that is drawn into the engine is measured by a mass air flow sensor.

This type of mass air flow sensor can respond very quickly to changes in intake air quantity and density, which means as you step on the throttle of your INFINITI to move into freeway traffic, a voltage signal is sent to the ECM (engine control module) instantly, and the ECM responds just as quickly to provide more fuel by allowing the port fuel injectors to stay open precise milliseconds longer. The result is smooth acceleration, without “stumble” or “hesitation”.

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SEQUENTIAL MULTIPOINT FUEL INJECTION SYSTEM

Your INFINITI engine uses a separate fuel injector for each cylinder. These are placed into the intake ports, so that they can spray atomized fuel under pressure into the intake air stream. These injectors are controlled “sequentially”, which means that they operate in each cylinder according to the firing order. Each injector opens to spray its carefully metered amount of fuel just before the intake valve of the cylinder opens.

Constant Pressure

Fuel injector operation depends upon a supply of fuel that is always maintained at a constant pressure in relation to the pressure in the engine intake manifold. Under pressure, the fuel travels through the line, through a large and efficient fuel filter mounted under the hood, and into a “fuel rail” which feeds the injectors. Fuel flows into the bases of the

injectors, where it is available to flow out of the injector nozzles and into the intake ports when the injectors are opened electrically by signals from the ECM.

By allowing more or less fuel to return to the tank, the fuel pressure regulator maintains the pressure at the injectors at 34 psi (2.4 kg/cm², 235 kPa) above manifold pressure.

That allows the ECM to adjust the flow of fuel into the engine simply by controlling the amount of time the injectors stay open. The longer the injectors are held open, in milliseconds, the more fuel flow.

IGNITION TIMING CONTROL

For best efficiency, ignition timing must be dynamic, that is it must change depending upon the engine operating conditions. It must respond to engine load, RPM changes, engine temperature changes, altitude, and so on. For precisely correct, automatic, adjustments in ignition timing to take place, the ECM must

have sensors that tell about such conditions. The most important of these is the crank angle sensor. The camshaft position sensor tells the ECM the engine speed and the positions of the pistons under all conditions.

CONTROL OF COMBUSTION TEMPERATURE

Oxides of nitrogen, in a number of chemical variations, are among the major components of photochemical air pollution. These nitrogen oxide compounds are formed in the engine when the combustion temperatures are higher than about 2,000°F (1,093°C). One way to decrease nitrogen oxide formation in the engine, then, is to cool the temperature of combustion slightly. This is done by allowing a small amount of burned, and therefore inert, exhaust gases to recirculate back into the engine intake manifold where they can be drawn into the cylinders.

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IDLE AIR CONTROL SYSTEM

The idle speed of an engine may be affected by a number of conditions. For example, a cold engine is inclined to run sluggishly at idle as well as under load. Such accessories as air conditioning and power steering may load the engine during idle and bring the idle speed down. Accessories that draw a large amount of current from the alternator, such as headlamps, window defoggers, radiator fans, etc., increase the load on the engine. So, to provide smooth idle under all conditions, and to provide the best overall fuel economy, the ECCS system gives computer controlled, automatic idle speed control. Using the information provided by the sensors, the ECM calculates the best idle speed and brings it about through the IACV-AAC valve, which allows more, or less, air into the intake manifold. Because the air is measured by the mass air flow sensor, the injectors always follow along with the correct pulse duration,

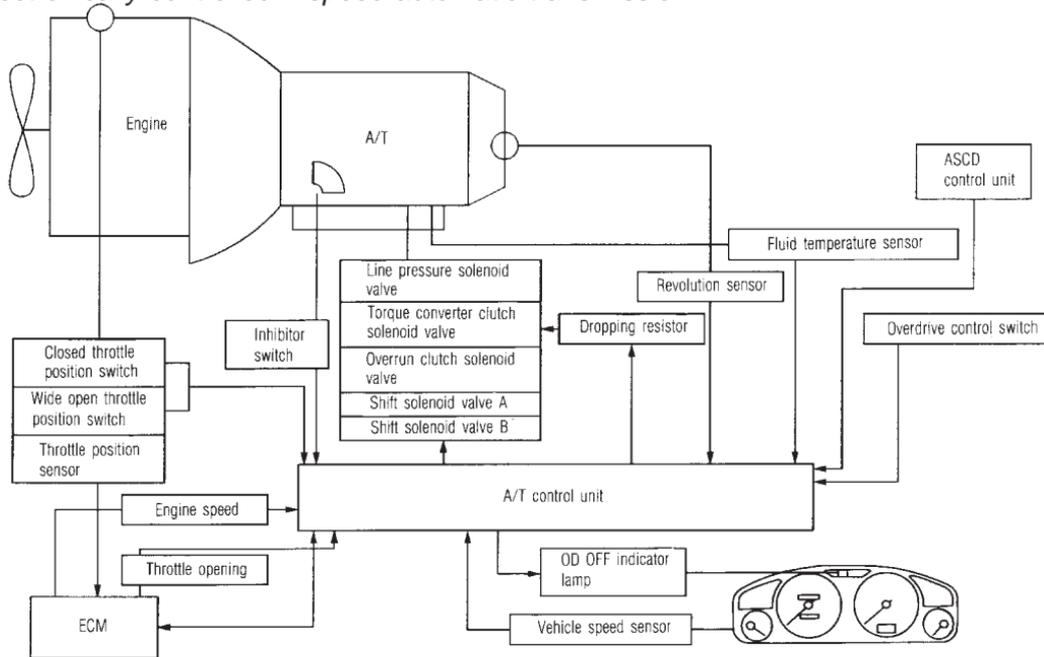
so the mixture is always correct.

ON-BOARD DIAGNOSTIC SYSTEM

The ECM (engine control module) has an on-board diagnostic system function, which monitors the engine and automatic transmission related circuits/components for problems. If the ECM senses a problem, it stores the information for retrieval by an experienced INFINITI technician at your dealership. So diagnosis and repair, even of this sophisticated system, may be made easier and more accurate.

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INFINITI electronically controlled 4-speed automatic transmission



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The function of an automotive transmission, is to provide a means of matching engine speed and vehicle speed in such a way that the engine is kept in the most efficient RPM range at all times.

HYDRAULIC CONTROL

In your INFINITI transmission, hydraulic flow and pressure are under the control of an electronic control unit which uses information from a number of sensors to calculate the most efficient gear ratio. The control unit selects the proper gear, it directs fluid to actuate the appropriate clutches, it controls fluid pressure precisely to allow smooth, shock-free shifts, and it controls the timing of torque converter lock-up.

Automatic Transmission Control Functions

Using the information provided by the sensors, the control unit calculates the best possible operation of the transmission for any

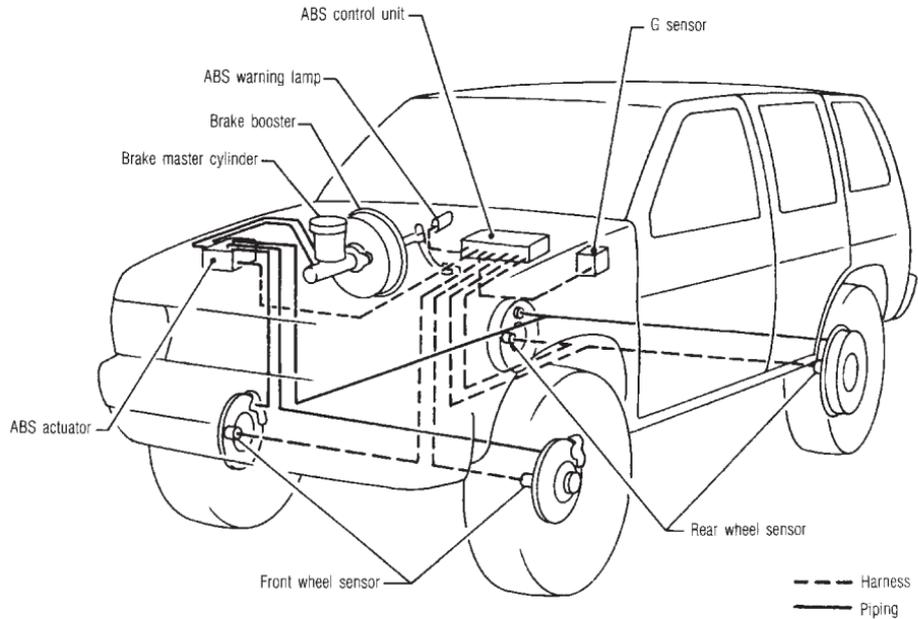
condition by controlling the following functions:

1. Shift timing.
2. Lock-up timing.
3. Engine brake operation timing.

Self Diagnosis

Any electrical malfunction in the system will be sensed by the automatic transmission control unit, which stores the information in memory.

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In sudden braking and on wet surfaces, the wheels are more easily locked. If the front wheels lock, steering control may be difficult.

If the rear wheels lock, swerving or spinning of the vehicle may result. To reduce this possibility, short and quick pumping of the brakes is needed, but this technique can be difficult for some drivers, especially in an emergency. The Anti-Lock braking system (ABS) can perform this pumping action quickly and is automatic when the driver depresses the brake pedal firmly. Since the braking force is controlled delicately by electronic control, wheel lock-up is minimized, and steering operation remains normal.

Brake pedal kickback remains minimal, and smooth pedal feel is ensured even when the ABS is operating.

Fail Safe

If the ABS control unit detects a malfunction in any of the system electrical circuits, it will de-activate the anti-lock function by cutting electrical power to the ABS actuator. The braking system will then work as usual, without the anti-lock function.

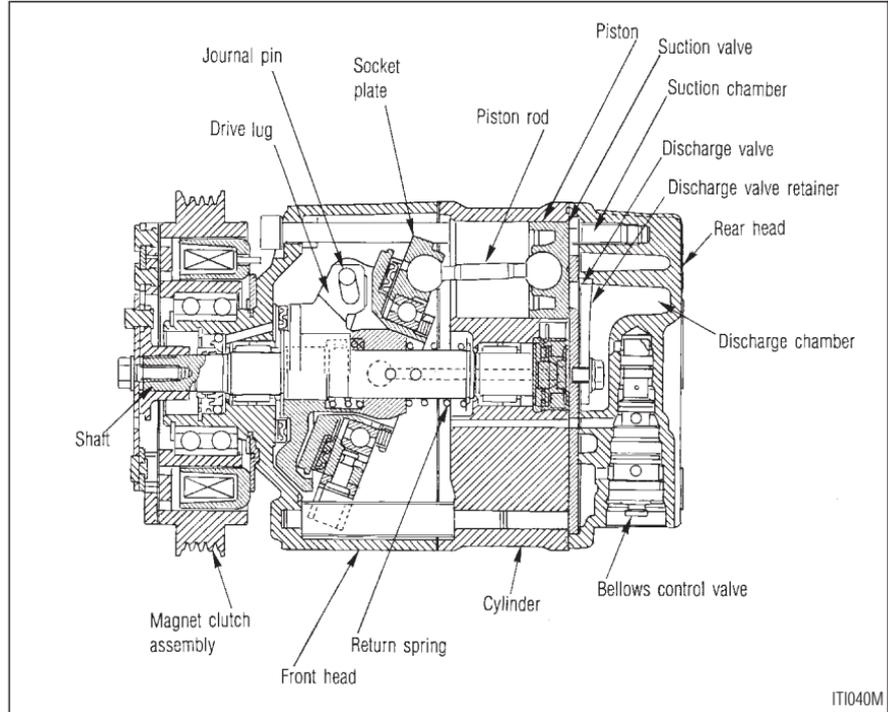
If the control unit stops the ABS system operation, the ABS warning lamp will glow. This will aid your INFINITI dealership technician in diagnosis of the problem.

TECHNICAL AND CONSUMER INFORMATION

FOR YOUR DRIVING COMFORT-AUTOMATIC AIR CONDITIONING

For precision control over the interior climate of your INFINITI, there is a fully automatic air conditioning system. The system uses sensors, a control unit or "auto amplifier", and actuators to provide the most comfortable temperature, humidity and air flow inside the vehicle. The auto amplifier also has a self diagnosis feature to recognize any system circuit malfunction and aid your INFINITI dealership technician in a quick, accurate repair if it becomes necessary.

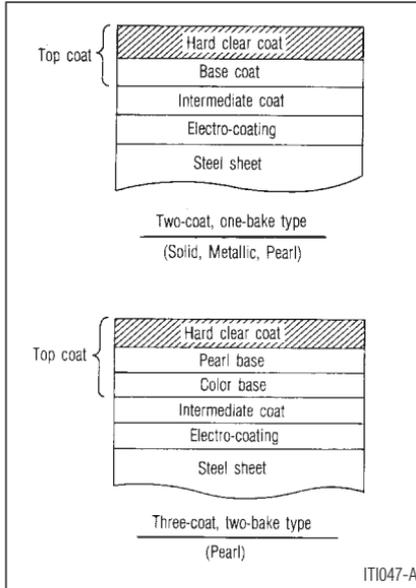
The auto amplifier receives information from the control panel, by which you may request the interior "weather" you wish, and from sensors placed in strategic locations in the vehicle. Once you have signaled a target temperature at the control panel, the auto amplifier uses information from the sensors to calculate what must be done.



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Hard clear coat (New cross linking clear coat)



Your INFINITI paint coating has been applied with the finest appearance and best durability in mind:

- To ensure enhanced appearance, (i.e., solid, pearl and metallic paint clearness), the hard clear coat (2-coat/1-bake, or 3-coat/2-bake type) is used instead of the conventional clear coat (acrylic resin).
- Improved scratch resistance—
The hard clear coat has higher resistance against scratches which may be caused by car wash equipment than the conventional coats.
- Refinishing the clear coat should only be done using hard clear type materials, to ensure compatibility in the rate of refinisher gloss retention.

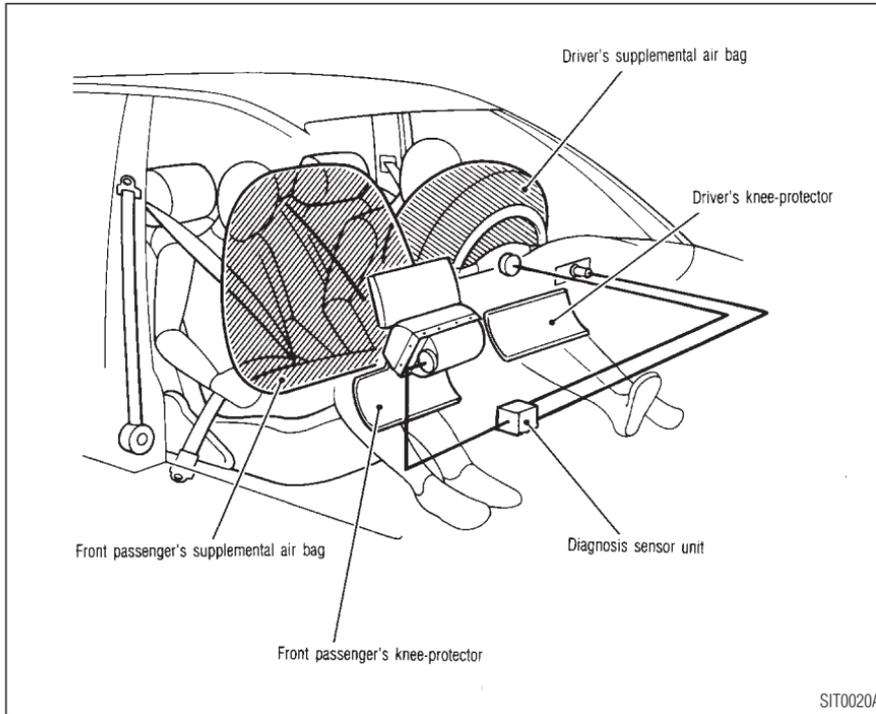
SUPPLEMENTAL AIR BAG SYSTEM

Supplemental air bags are designed to inflate in higher severity frontal collisions. When the supplemental air bag system receives a signal

from the diagnosis sensor unit, the supplemental air bags inside the supplemental air bag modules fill with gas, inflating instantly. This, in conjunction with the seat belts, helps to cushion the impact force to the occupants' face and chest.

A supplemental air bag system is provided on the front passenger side in addition to the driver side.

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CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure instructed in the “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 gasoline with an octane rating of at least 87 AKI (RON 91)*1 | |
| Engine oil (Refill) | With oil filter | 3-7/8 qt | 3-1/4 qt | <ul style="list-style-type: none"> • API SG or SH and Energy Conserving II*2, *3 • API Certification Mark*2, *3 | |
| | Without oil filter | 3-5/8 qt | 3 qt | | |
| Cooling system | With reservoir | 11-1/4 qt | 9-3/8 qt | 10.6 | Anti-freeze coolant (Ethylene glycol base) |
| | | | | | Standard differential gear: API GL-5*3 Limited-slip differential (LSD) gear: Use only LSD gear oil API GL-5 and SAE 80W-90*6 approved for Nissan LSD*7. |
| Differential gear oil | — | — | — | | Nissan Matic “D” (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada)*5 |
| Automatic transmission fluid | Refill to the proper oil level according to the instructions in the “Do-it-yourself” section | | | Type DEXRON TM III, DEXRON TM III or equivalent | |
| Power steering fluid | | | | Nissan Matic “D” (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada)*8 | |
| All mode 4WD transfer fluid | | | | Genuine Brake Fluid*4 or equivalent DOT 3 (US FMVSS No. 116) | |
| Brake fluid | | | | NLGI No. 2 (Molybdenum disulphide lithium soap base) | |
| Propeller shaft grease | — | — | — | NLGI No. 2 (Lithium soap base) | |
| Multi-purpose grease | — | — | — | HFC-134a (R-134a) | |
| Air conditioning system refrigerant | — | — | — | Nissan A/C System Oil | |
| Air conditioning system lubricants | | | | Type S or equivalent | |

*1: For further details, see “Fuel requirement”.

*2: For further details, see “Engine oil and oil filter recommendation”.

*3: For further details, see “Recommended SAE viscosity number”.

*4: Available in mainland U.S.A. through your INFINITI dealer.

*5: DexronTM III/MerconTM or equivalent may also be used. Outside the continental United States and Alaska contact an INFINITI dealer for more information regarding suitable fluids, including recommended brand(s) of DexronTM III/MerconTM or DexronTM IIE/MerconTM Automatic Transmission Fluid.

*6: SAE 90 is acceptable in temperatures above 0°F (-18°C).

*7: Contact your INFINITI dealer for a list of approved oils.

*8: Outside the continental United States and Alaska contact an INFINITI dealer for more information regarding suitable fluids, including recommended brand(s) of DexronTM III/MerconTM Automatic Transmission Fluid.

TECHNICAL AND CONSUMER INFORMATION

FUEL REQUIREMENT

In order to maintain engine and exhaust system durability and performance, UNLEADED gasoline with an octane rating of at least 87 AKI (Research octane number 91) must be used.

Use UNLEADED fuel only. Under no circumstances should leaded gasoline be used. It will damage your three-way catalyst and increase dangerous emissions from your vehicle exhaust.



CAUTION

Using a fuel other than that specified could adversely affect the emission control devices and systems, and could 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% oxygenate. (MTBE may, however, be added up to 15%.)**
- **If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause fuel**

TECHNICAL AND CONSUMER INFORMATION

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 AKI (Anti-Knock Index) number. However, you may use unleaded gasoline with an octane rating as low as 85 AKI (Anti-Knock Index) 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 dealer or other competent service facility.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is no cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

TECHNICAL AND CONSUMER INFORMATION



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. Nissan 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 or SH and Energy Conserving II categories.

If you cannot find engine oil with the CERTIFICATION MARK, an API SG or SH and Energy Conserving II oil with API Service Symbol may be used. An oil with a single designation "SG" or "SH", 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.

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

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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 "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.

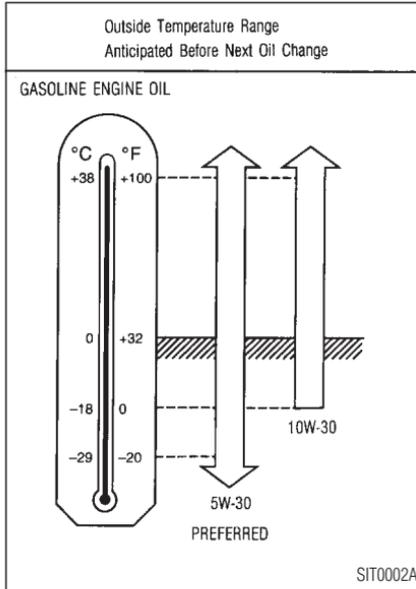
Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

- repeated short distance driving at cold outside temperatures,
- driving in dusty conditions,

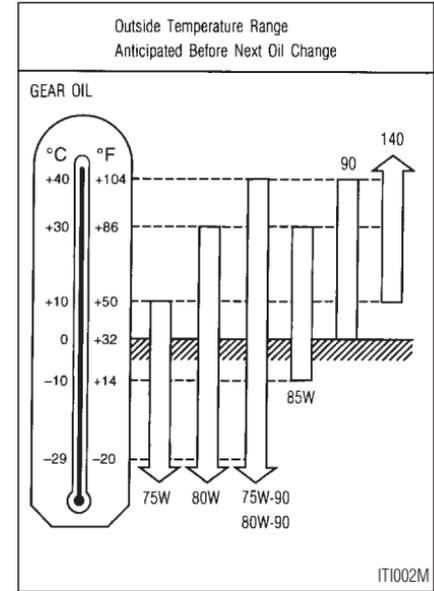
- extensive idling,
- towing a trailer.

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RECOMMENDED SAE VISCOSITY NUMBER



- **SAE 5W-30 viscosity oil is preferred for all temperatures. SAE 10W-30 viscosity oil may be used if the ambient temperature is above 0°F (-18°C).**



- **80W-90 for differential is preferable if the ambient temperature is below 104°F (40°C).**

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AIR CONDITIONING SYSTEM REFRIGERANT AND LUBRI- CANT 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

Use of any other refrigerant or lubricant will cause severe damage and you will need to replace your vehicle's entire air conditioning system.

The refrigerant HFC-134a (R-134a) in your INFINITI vehicle will not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain governmental regulations require the recovery and

recycling of any refrigerant during automotive air conditioning system service. Your INFINITI dealer has the trained technicians and equipment needed to recover and recycle your air conditioning system refrigerant.

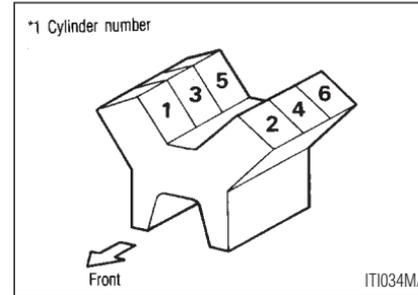
Contact your INFINITI dealer when servicing your air conditioning system.

TECHNICAL AND CONSUMER INFORMATION

ENGINE

| Model | | VG33E |
|-----------------------------|--------------------------|--|
| Type | | Gasoline, 4-cycle |
| Cylinder arrangement | | 6-cylinder, V-slanted at 60° |
| Bore x Stroke | in (mm) | 3.602 x 3.268 (91.5 x 83.0) |
| Displacement | cu in (cm ³) | 199.84 (3,275) |
| Firing order | | 1-2-3-4-5-6*1 |
| Idle speed | rpm | |
| Ignition timing (BTDC) | degree/rpm | See the "Emission Control Label" on the underside of the hood. |
| CO percentage at idle speed | [No air] % | |
| Spark plug | | BKR4ES-11 (Hot) BKR5ES-11 (Standard) BKR6ES-11 (Cold) |
| Spark plug gap | in (mm) | 0.039 to 0.043 (1.0 to 1.1) |
| Camshaft operation | | Timing belt*2 |
| Alternator belt size | | |
| Width x Length | in (mm) | 0.8409 x 41.93 (21.36 x 1,065) |

The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations.



*2: Periodic maintenance is necessary. Refer to "8 Maintenance".

TECHNICAL AND CONSUMER INFORMATION

WHEELS AND TIRES

| | | |
|------------|--------------|-------------------|
| Road wheel | Aluminum | 16 x 7JJ |
| | Offset | in (mm) 1.18 (30) |
| Tire size | Conventional | P245/70R16 106S |
| | Spare | P245/70R16 106S |

DIMENSIONS AND WEIGHTS

| | | Sedan |
|-----------------------------|---------|--|
| Overall length | in (mm) | 183.9 (4,670) |
| Overall width | in (mm) | 72.4 (1,840) |
| Overall height | in (mm) | 68.1 (1,730), 70.7 (1,795)* |
| Front tread | in (mm) | 59.8 (1,520) |
| Rear tread | in (mm) | 60.0 (1,525) |
| Wheelbase | in (mm) | 106.3 (2,700) |
| Gross vehicle weight rating | lb (kg) | |
| Gross axle weight rating | | See the "F.M.V.S.S. certification label" on the driver's side lock pillar. |
| Front | lb (kg) | |
| Rear | lb (kg) | |

* With luggage rack

TECHNICAL AND CONSUMER INFORMATION

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.

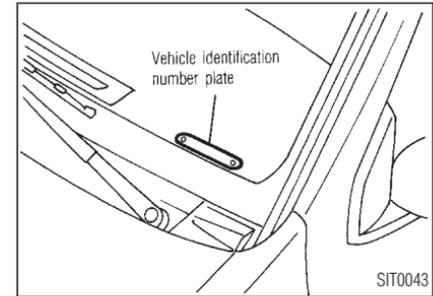
When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

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.

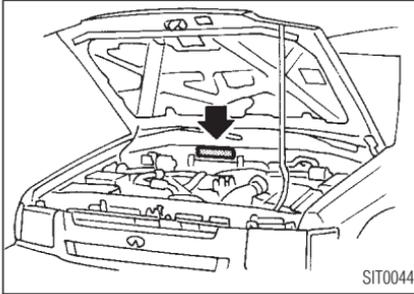
VEHICLE IDENTIFICATION VEHICLE IDENTIFICATION NUMBER PLATE



The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.

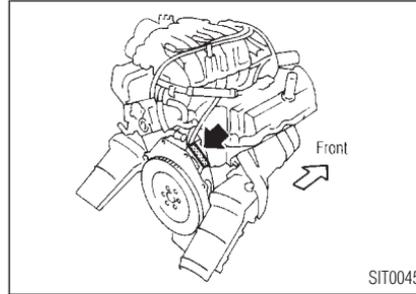
TECHNICAL AND CONSUMER INFORMATION

VEHICLE IDENTIFICATION NUMBER (Chassis number)



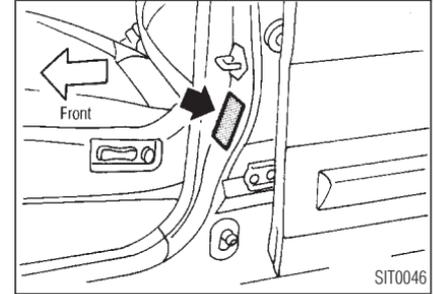
The number is stamped as shown.

ENGINE SERIAL NUMBER



The number is stamped on the engine as shown.

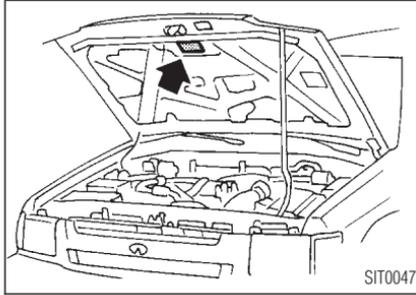
F.M.V.S.S. CERTIFICATION LABEL



The F.M.V.S.S. certification label is affixed as shown.

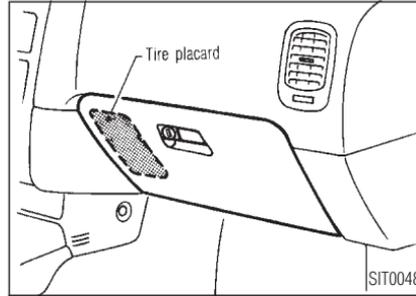
TECHNICAL AND CONSUMER INFORMATION

EMISSION CONTROL INFORMATION LABEL



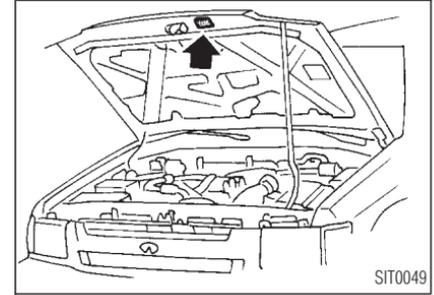
The emission control information label is attached as shown.

TIRE PLACARD



The cold tire pressure is shown on the tire placard affixed to the glove box lid.

AIR CONDITIONER SPECIFICATION LABEL



The air conditioner specification label is attached as shown.

TECHNICAL AND CONSUMER INFORMATION

VEHICLE LOADING INFORMATION



WARNING

- ***It is extremely dangerous to ride in a cargo area inside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.***
- ***Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.***
- ***Be sure everyone in your vehicle is in a seat and using a seat belt properly.***

Terms

It is important to familiarize yourself with the

following terms before loading your vehicle:

- **Curb Weight** (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire 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 load capacity

The 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 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), re-weigh 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.

TECHNICAL AND CONSUMER INFORMATION

Loading tips

- The GVW must not exceed GVWR or GAWR as specified on the FMVSS Certification Label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.



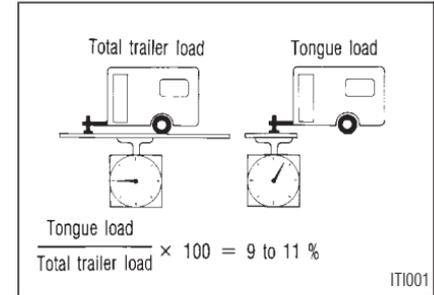
WARNING

- **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 on 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 your vehicle. Failures caused by overloading are not covered by your warranty.***

TRAILER TOWING



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.

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Maximum load limits

Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the following Towing Load/Specification Chart. The total trailer load equals trailer weight plus its cargo weight.

- When towing a trailer load of 1,000 lb (454 kg) or more, trailers with a brake system MUST be used.

The maximum GCWR (Gross Combined Weight Rating) should not exceed the value specified in the following Towing Load Specification Chart.

The GCWR equals the combined weight of the towing vehicle (including passengers and cargo) plus the total trailer load. Towing loads greater than these or using improper towing equipment could adversely affect vehicle handling, braking and performance.

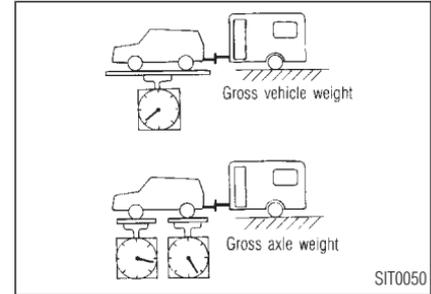


WARNING

Vehicle damage and/or personal injury resulting from improper towing procedures is not covered by INFINITI warranties. Information on trailer towing and required towing equipment should be obtained from dealers who specialize in providing trailers and other towing equipment.

Tongue load

Keep the tongue load between 9 to 11% of the total trailer load within the maximum tongue load limits shown in the following Towing Load/Specifications Chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed the gross vehicle weight rating (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 the gross axle weight

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rating (GAWR) shown on the F.M.V.S.S. certification label.

TOWING LOAD/SPECIFICATION CHART

Unit: lb (kg)

| WEIGHT | MODEL |
|------------------------------|---------------------------|
| | QX-4 VG33E (6-Cyl.) |
| | A/T |
| MAXIMUM TRAILER WEIGHT*1 | 5,000 (2,268) |
| MAXIMUM TONGUE LOAD | 500 (227) |
| GROSS COMBINED WEIGHT RATING | 9,500 (4,308) |
| RECOMMENDED EQUIPMENT*2 | Sway Control Device (SCD) |

*1: All towing above 1,000 lb (454 kg) requires the use of trailer brakes. INFINITI recommends the use of a tandem axle trailer whenever towing above 3,000 lb (1,361 kg).

*2: A sway control device is recommended for all towing above 2,000 lb (907 kg). Sway control devices are not offered by INFINITI. See a professional trailer/hitch outlet for a properly designed sway control device for your trailer.

Trailer hitch

Choose a proper hitch for your vehicle and trailer. Make sure the trailer hitch is securely attached to the vehicle, to help avoid personal injury or property damage due to sway caused by crosswinds, rough road surfaces or passing trucks.



CAUTION

- **Special hitches which include frame reinforcements are required for towing above 2,000 lb (907 kg). Suitable Genuine**

NISSAN hitches for pickup truck and Pathfinder models are available at your Nissan dealer.

- **Do not use axle-mounted hitches.**
- **Do not modify the vehicle exhaust system, brake system, etc. when the hitch is installed. After the hitch is removed, seal the bolt holes to prevent exhaust fumes, water or dust from entering the passenger compartment.**
- **Check regularly to make sure that all trailer hitch mounting bolts are securely fastened.**
- **To reduce the possibility of additional damage if your vehicle is struck from the rear, where practical, remove the hitch when not in use. Remove the receiver when not in use.**

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Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the tire placard (located on the inside of the glove box lid).
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturers' specifications.

Safety chain

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.

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- 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 shift lever into the “P” position. If you move the shift lever to the “P” 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.
However, for long steep grades, do not stay in 1st or 2nd gear when driving above 35 MPH (56 km/h).
- 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

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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 the “Maintenance” section.

EMISSION CONTROL SYSTEM WARRANTY

Your INFINITI is covered by the following emission warranties.

For U.S.A.

- 1) Emission Defects Warranty
- 2) 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 that comes with your INFINITI. If you did not receive a Warranty Information Booklet, or it has become lost, you may obtain a replacement by writing to:

- INFINITI Division, Nissan
Nissan Motor Corporation U.S.A.
Consumer Affairs Department
P.O. Box 191, Gardena, CA 90248-0191
- Nissan Canada Inc.
P.O. Box 1709, Station “B”
Mississauga, Ontario,
L4Y 4H6
- INFINITI Division
Nissan Motor Corporation in Hawaii, Ltd.
Consumer Affairs Department
2880 Kilihau Street
Honolulu, Hawaii 96819
Tel. No. 1-808-836-0848

REPORTING SAFETY DEFECTS (For U.S.A.)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying INFINITI.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or INFINITI.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain

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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 1-808-836-0848

READINESS FOR INSPECTION/MAINTENANCE (I/M) TEST

Due to legal requirements in some states/areas, your vehicle may be required to be in what is called the “ready condition” for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the “ready condition” when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a “not ready” condition. Before taking the I/M test, drive the vehicle through the following pattern to set the vehicle to the ready condition. If you cannot or do not want to perform the driving pattern, an INFINITI dealer can conduct it for you.



WARNING

Always drive the vehicle in a safe 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 and turn the engine off.
5. Repeat steps 1 through 4 at least one more time.

If step 1, 2 or 3 is interrupted, repeat the preceding step. Any safe driving mode is acceptable between steps. Do not stop the engine until step 3 is completed.

A

| | |
|---|------|
| Air bag (See "Supplemental restraint system") | |
| Air bag warning light (See "Supplemental air bag warning light") | |
| Air cleaner..... | 7-17 |
| Air conditioner | |
| Air conditioner specification label..... | 9-25 |
| Air conditioner system refrigerant and lubrication recommendations..... | 9-20 |
| AM radio reception..... | 3-8 |
| Anti-lock brake system (ABS)..... | 4-27 |
| Automatic | |
| Automatic operation..... | 1-31 |
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MEMO

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GAS STATION INFORMATION

Fuel requirement

In order to maintain engine and exhaust system durability and performance, UNLEADED gasoline with an octane rating of at least 87 AKI (Research octane number 91) must be used.

Use UNLEADED fuel only. Under no circumstances should leaded gasoline be used. It will damage your three-way catalyst and increase dangerous emissions from your vehicle exhaust.

Recommended engine oil specifications:

- API SG or SH and Energy Conserving II
- API Certification Mark
- SAE 5W-30 viscosity oil is preferred for all ambient temperatures.

See "Engine oil and oil filter recommen-

dation" in the "Technical and consumer information" section.

Tire cold pressure:

See tire placard affixed to the glove box lid.

Recommended new vehicle break-in procedure:

During the first 1,000 miles (1,600 km) of vehicle use, follow the recommendations outlined in the "BREAK-IN SCHEDULE" Information found in the "Starting and driving" section of this Owner's Manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

QUICK REFERENCE

