

# 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 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 808-531-0231. 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.**

### *MODIFICATION OF YOUR VEHICLE*

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

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.

## 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.

Throughout this manual we have used the word **WARNING**. This is used to indicate the presence of a hazard which may cause the possibility of a personal injury or other damage and must be followed precisely.

**CAUTION.** This is also used throughout the manual to indicate the presence of a hazard that could cause possible minor injury to yourself or components and the procedures must be followed carefully.



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TOKYO, JAPAN

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## 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.

### WARNING:

*This is used to indicate the presence of a hazard which may cause the possibility of a personal injury or other damage. The procedures must be followed precisely.*

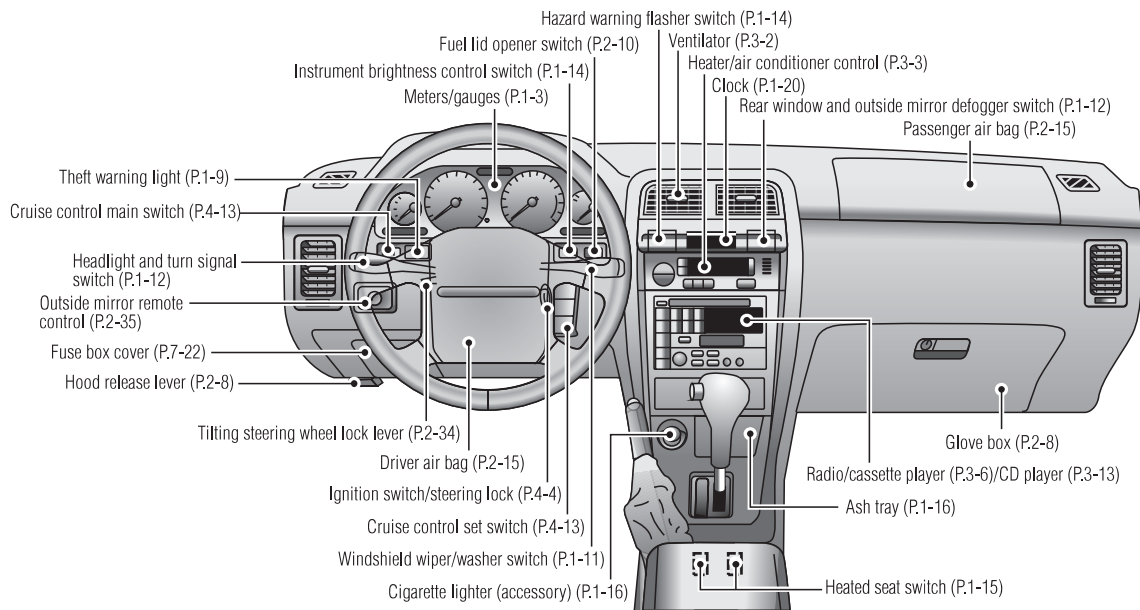
### CAUTION:

*This is used throughout the manual to indicate the presence of a hazard that could cause possible minor injury to yourself or your vehicle. The procedures must be followed carefully.*

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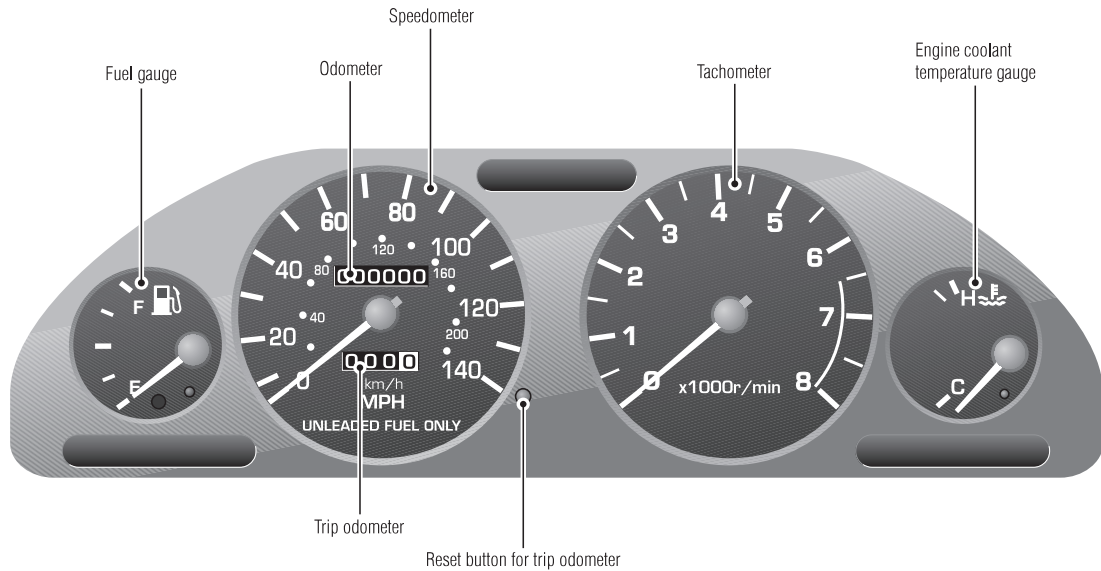
# INSTRUMENTS AND CONTROLS



See the page indicated in parentheses for operating details.

# INSTRUMENTS AND CONTROLS

## METERS AND GAUGES

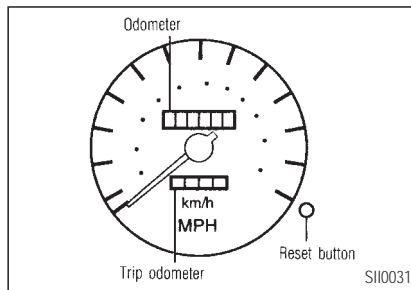


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## INSTRUMENTS AND CONTROLS

### ***SPEEDOMETER***

The speedometer indicates vehicle speed in miles per hour.



### ***ODOMETER***

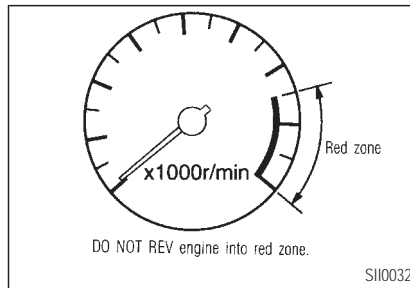
The odometer records the total distance the vehicle has been driven.

### ***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).

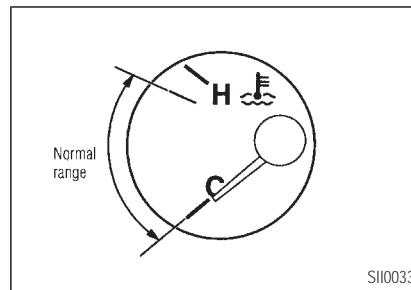


#### ***CAUTION:***

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

### ***ENGINE COOLANT TEMPERATURE GAUGE***

The gauge indicates the coolant temperature.



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

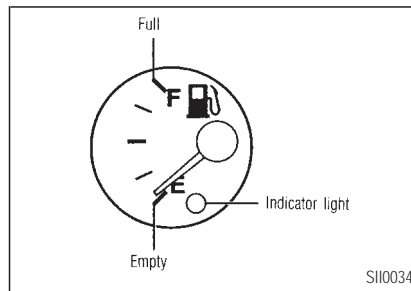
## INSTRUMENTS AND CONTROLS

### 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 indicator light comes on when the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the gauge reaches "E". There should be a small reserve of fuel in the tank when the fuel gauge needle reaches "E".

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.**



# INSTRUMENTS AND CONTROLS

## WARNING/INDICATOR LIGHT AND BUZZER

 or BRAKE	warning light		Seat belt warning light		Engine oil pressure warning light
	Turn signal/hazard indicator light		Low washer fluid warning light	CRUISE	CRUISE indicator light
	High beam indicator light (blue)	ABS or 	Anti-lock brake warning light	AIR BAG	Air bag warning light
	Charge warning light	O/D OFF	Overdrive off indicator light		
	Door open warning light		Malfunction indicator light		

### Checking bulbs

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

 ,  or BRAKE ,  , 

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

The oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See

## INSTRUMENTS AND CONTROLS

"Engine oil" in the "Do-it-yourself" section.



### **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.***



### **Door open warning light**

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



### **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.



### **Air bag warning light**

When the ignition key is in the "ON" or "START" position, the 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 air bag needs servicing and your vehicle must be taken to your nearest authorized INFINITI dealer.

1. The air bag light does not come on for 7 seconds and then go off as described above.
2. The air bag light flashes intermittently or remains on.
3. The 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 Air Bag System, see Section 2.



### **Low washer fluid warning light**

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 Brake warning light**

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

## INSTRUMENTS AND CONTROLS

### 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 and clutch fluid" in the "Do-it-yourself" section.
2. If the brake fluid level is correct, check the warning system.

#### **WARNING:**

- ***If you judge it to be safe, drive carefully to the nearest service station for repairs. Otherwise, have your vehicle towed because driving it could be dangerous.***

- ***Pressing the brake pedal when the engine stops and/or low brake fluid level may increase your stopping distance and require greater pedal effort as well as greater pedal travel.***

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


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. Have the system checked by your INFINITI dealer. However if the light illuminates while starting the engine, it does not indicate a system malfunction.


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.**

### **Overdrive off indicator light**

This light comes on when the overdrive switch is pushed to the "OFF  " position.

However when the ignition key is in the "ON" or "START" position and the overdrive switch is not in the "OFF  " position, the light will illuminate for about 2 seconds and then turn off. This means the system is operational.

### **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.

## INSTRUMENTS AND CONTROLS

### **CRUISE**

#### *Cruise indicator light*

The light comes on while the vehicle speed is controlled by the cruise control system. If the light flickers while the engine is running, it may indicate there is something wrong with the cruise control system. Have the system checked by your INFINITI dealer.

#### *Key reminder buzzer*

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

#### *Light reminder buzzer*

A buzzer will sound when the driver side door is opened if the light switch is turned on (ignition switch is turned off).

Turn the light switch off when you leave the vehicle.

#### *Brake pad wear warning*

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



#### *Malfunction indicator light (MIL)*

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

#### **CAUTION:**

- *Continued 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.*

- *Although the vehicle is still driveable, see your nearest INFINITI dealer as soon as possible. To avoid system damage, do not drive at speeds above 45 MPH (72 km/h). If possible, avoid hard acceleration or deceleration.*

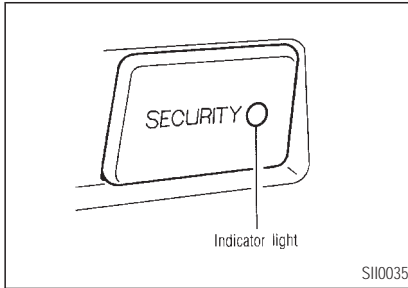
If the fuel filler cap is not tightened properly, the MIL may come on. Check and securely tighten the fuel filler cap, and have your vehicle checked as noted above.

## THEFT WARNING

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

# INSTRUMENTS AND CONTROLS

## *How to activate the theft warning system*



1. Close all windows.

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

2. Remove the key from the ignition switch.
3. Close and lock all doors, hood and trunk lid. The doors can be locked either with or without the key.
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", the system will not activate.

### **CAUTION:**

- *If the key is turned quickly when locking the door, the system may not activate. Furthermore, if the key is turned excessively to the unlock position, 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, trunk lid and back door 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 can be shut off by unlocking a door or trunk lid with the key.

The alarm is activated by:

- Unlocking the door or trunk lid without using the key or multi-remote controller

## INSTRUMENTS AND CONTROLS

(even if the door is opened by releasing the door inside lock knob) or opening the trunk lid by operating the opener release button.

- Opening the hood.
- Pushing in or pulling out of the key cylinder on the door or trunk lid.

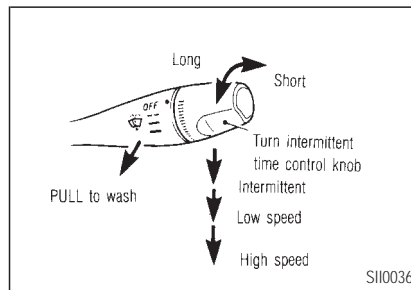
### *How to stop alarm*

The alarm will stop only by unlocking a door or trunk lid 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 described 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 3 to 21 seconds by turning the knob.

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

### **CAUTION:**

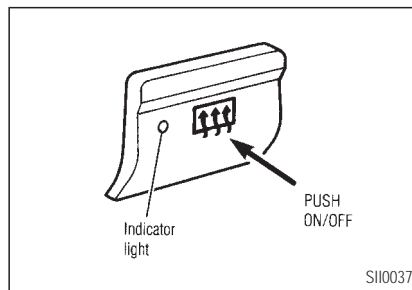
- ***Do not operate the washer continuously for more than 30 seconds.***
- ***Do not operate the washer if the reservoir tank is dry.***

### **WARNING:**

***In freezing temperatures the washer solution may freeze on the windshield and obscure your vision. Warm windshield with the defroster before you wash the windshield.***

## INSTRUMENTS AND CONTROLS

### REAR WINDOW AND OUTSIDE MIRROR DEFOGGER SWITCH



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

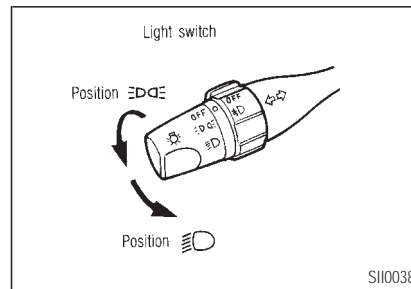
It will automatically turn off in approximately 15 minutes.

#### CAUTION:

*When cleaning the inner side of the window, be careful not to scratch or damage the electrical conductors.*

### HEADLIGHT AND TURN SIGNAL SWITCH

#### Lighting



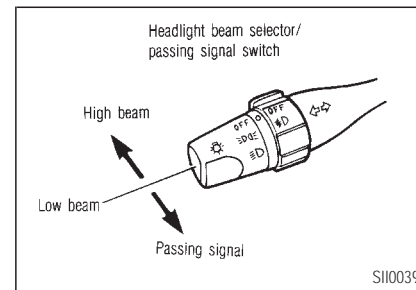
Turn the switch to the "D" position:

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

Turn the switch to the "L" position:

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

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



#### Daytime light system (For Canada)

Even if the headlight control switch is off, the

## INSTRUMENTS AND CONTROLS

headlights' high beams will illuminate after starting the engine. The headlights will be a little dimmer than they are with the headlight switch in the "☉" position.

If the parking brake is applied before the engine is started, the daytime lights will not be illuminated. The daytime lights will illuminate once the parking brake is released. Thereafter, the daytime lights will not turn off when using the parking brake at stop signals, etc.

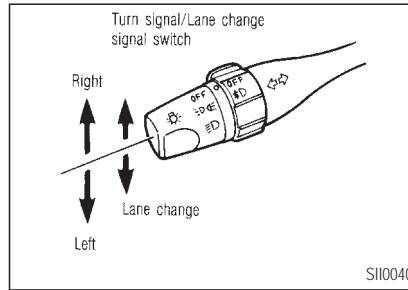
### **WARNING:**

***When the daytime 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.***

### ***Passing signal***

Pulling the lever toward you will turn on the headlight high beam.

### ***Turn signal***

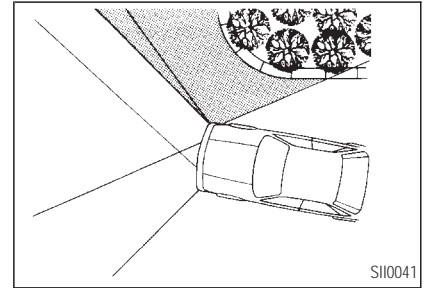


Move the lever up or down to signal the turning direction. When the turn is completed, the turn signals cancel automatically.

### ***Lane change signal***

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

## CORNERING LIGHT

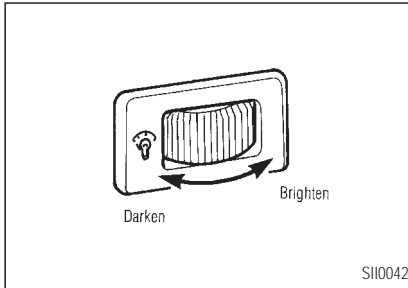


The cornering light provides additional illumination toward the turning direction. The light will come on when the turn signal lever is moved to the right or left with the headlights on.



## INSTRUMENTS AND CONTROLS

### INSTRUMENT BRIGHTNESS CONTROL



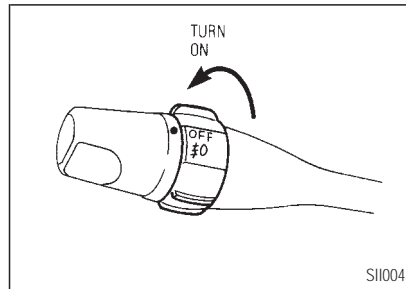
The instrument brightness control operates when the light switch is in the "☰" or "☷" position.

Turn the control to adjust the brightness of instrument panel lights (except clock) and power window switch 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.

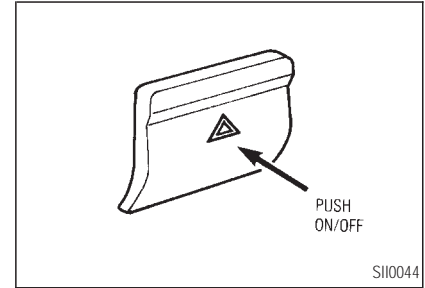
### FRONT FOG LIGHT SWITCH



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.

### HAZARD WARNING FLASHER SWITCH



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

#### **WARNING:**

- *When stalled or stopped on the roadway under emergency conditions, move the vehicle well off the road.*

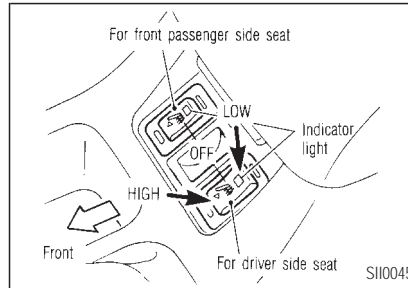
## INSTRUMENTS AND CONTROLS

- **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.**
- **Some state laws may prohibit the use of the hazard warning flasher switch while driving.**
- **Turn signals do not work when the switch is operating.**

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

### HEATED SEAT

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



1. Start the engine.

#### **CAUTION:**

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

2. Selecting heat range.

- For Low heat, press the top of the switch.
- For High heat, press the bottom of the switch.

- For No heat, the switch has a center "OFF" position between Low and High.

The indicator light in the switch will illuminate when Low or High is selected.

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 extended periods, or when the seat is not occupied.**

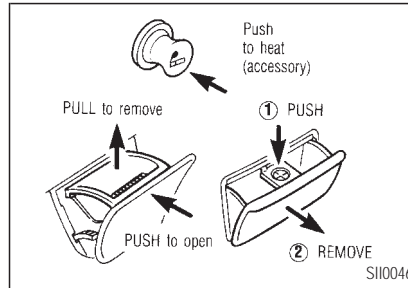
- **Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.**

## 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 heated seat should be removed immediately with a dry cloth.**
- **When cleaning the seat, never use benzine, thinner, or any similar materials.**
- **If any abnormalities are found or the heated seat does not operate, turn the switch OFF and have the system checked by your INFINITI dealer.**

### CIGARETTE LIGHTER AND ASH TRAYS

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



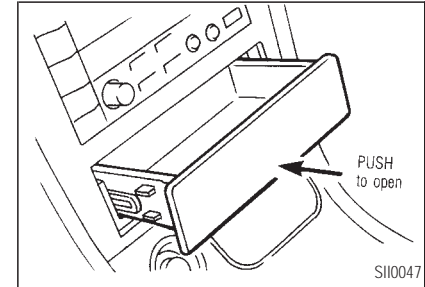
Push the lighter in all the way. When the lighter is heated, it will spring out.

Return the lighter to its original position after use.

#### **WARNING:**

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

### STORAGE TRAY



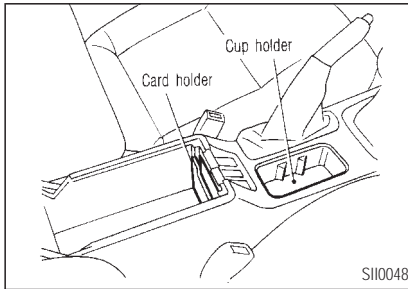
To open the storage tray, push and release. The storage tray will automatically move to the open position.

#### **WARNING:**

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

## INSTRUMENTS AND CONTROLS

### CUP AND CARD HOLDERS



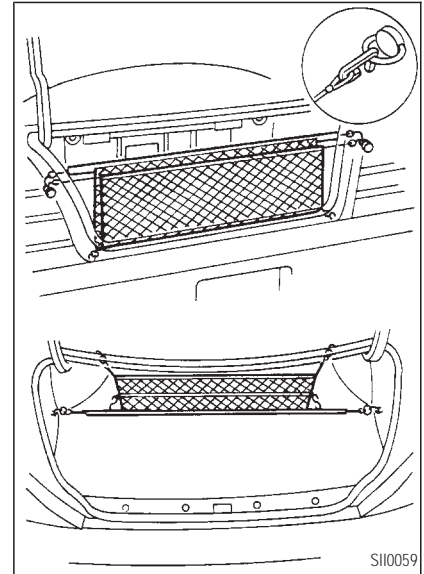
#### **WARNING:**

*The cup and card holders 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 splashing the drink.*

### CARGO NET



This cargo net can hold packages or objects in place in a wide variety of layouts using

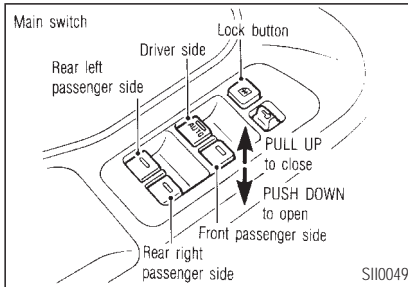
## INSTRUMENTS AND CONTROLS

various attaching hooks.

- **Do not put heavy objects in the cargo net. The net is designed only to hold light packages or objects in place while driving.**

### POWER WINDOW

The power window only operates when the ignition key is in the "ON" position.

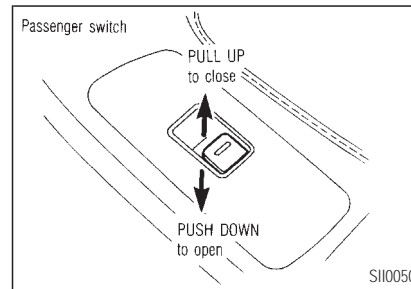


To open or close the window, push down or pull up the switch and hold it. The main

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.

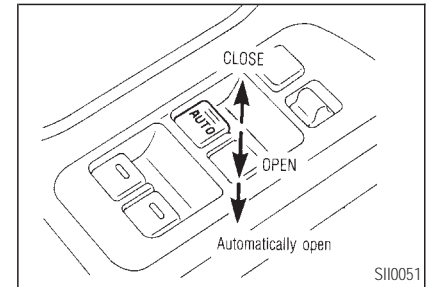


The passenger side switch will open or close only the corresponding window. To open or close the window, hold the switch down or up.

### 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.**

### Power window automatic switch



To fully open the driver side window, com-

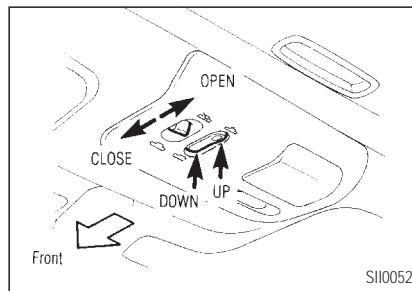
## INSTRUMENTS AND CONTROLS

pletely push 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.

### SUNROOF

The sunroof 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 sun roof, then keep pushing the "↗" side of the tilt switch. To tilt down the sun roof, 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.

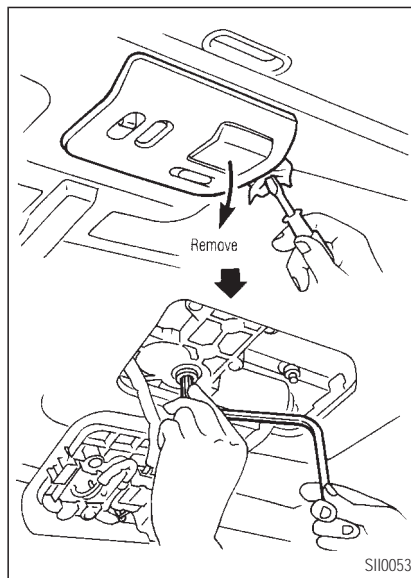
#### **WARNING:**

- ***Be extremely careful not to have any part of your body in the sun roof opening while it is closing.***

- ***Do not stand up or extend any portion of your body out of the opening while driving.***
- ***Remove water drops, snow, ice or sand from the sun roof before opening.***
- ***Do not place any heavy object on the sun roof or surrounding area.***

## INSTRUMENTS AND CONTROLS

*If the sunroof does not close*



### CAUTION:

**Turn the ignition key to the "OFF" position.**

1. Remove the cover as illustrated. The shaft end of the sunroof motor will be visible.
2. Using the wrench supplied in the tool bag, turn the shaft clockwise to close the sunroof.

If the sunroof does not tilt down, turn the shaft counterclockwise to tilt the sunroof down.

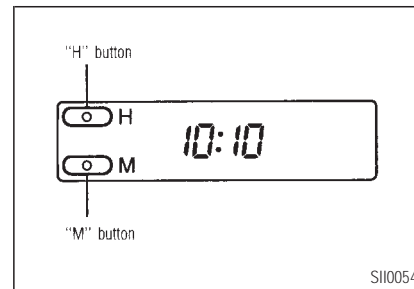
Have the sunroof system checked and repaired by your INFINITI dealer.

### 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.



### Adjusting the time

Push the **H** button to adjust the hour.

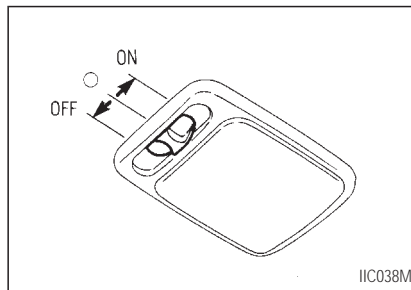
Push the **M** button to adjust the minute.

### INTERIOR LIGHT

The interior light has a three-position switch.

When the switch is in the center "O" position, the light will illuminate when a door is opened.

## INSTRUMENTS AND CONTROLS



### *Interior light timer*

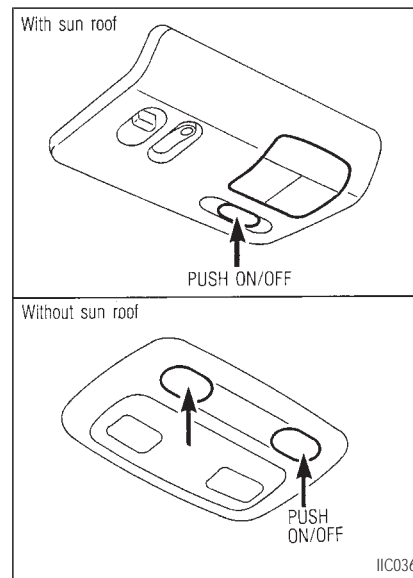
The interior light will stay on for about 30 seconds when:

- The driver's door is unlocked while the key is removed from the ignition switch.
- The key is removed from the ignition switch while the driver's door is closed.
- The key is removed from the ignition switch and the driver's door is opened and then closed.

The timer is cancelled, and the interior light will turn off when:

- The driver's door is locked.
- The ignition switch is turned "ON".

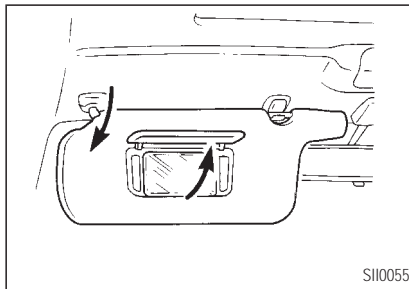
## FRONT PERSONAL LIGHT





## INSTRUMENTS AND CONTROLS

### VANITY MIRROR LIGHT



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

### TRUNK LIGHT

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

### 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:

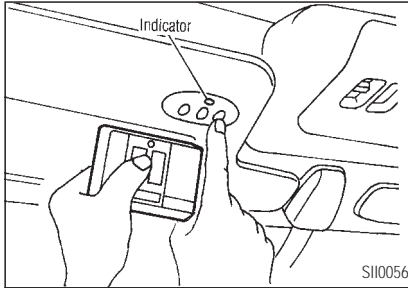
- will operate garage doors, gates, home/office lighting systems and security systems by storing and transmitting the programming information of your current hand-held transmitters.
- is built-in and powered by your vehicle's battery and charging system. No separate batteries are necessary.

#### 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 on 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 the end of 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 10-90 seconds). Then release both buttons. The rapid flashing means that the transmitter has been successfully programmed to match your hand-held transmitter. You can now use the Integrated HomeLink™ Transmitter instead of your hand-held transmitter.

## INSTRUMENTS AND CONTROLS

### **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™ Trans-

mitter. 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 the 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.

### **CLEARING THE PROGRAMMING INFORMATION**

To clear the Integrated HomeLink™ Transmitter of all previous programming information, 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

## INSTRUMENTS AND CONTROLS

owners manual of each device, or call the manufacturer or dealer of those devices.

**When your vehicle is recovered, you will have 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**

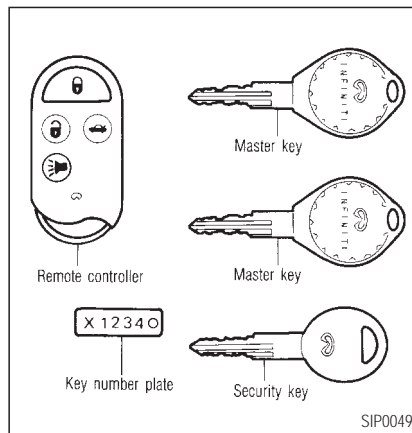


## 2 PRE-DRIVING CHECKS AND ADJUSTMENTS

Key.....	2-2	Warning and caution labels.....	2-19
Door locks .....	2-2	Air bag warning light.....	2-19
Multi-remote control system.....	2-4	Seat belts.....	2-21
Hood release.....	2-8	Child restraints for infants and small children.....	2-27
Glove box lock.....	2-8	Tilting steering wheel .....	2-34
Trunk lid lock .....	2-9	Outside mirror remote control .....	2-35
Fuel filler lid lock.....	2-10	Foldable outside mirrors .....	2-35
Seats.....	2-11	Inside mirror .....	2-36
Supplemental restraint system (Air bag system).....	2-15	Automatic anti-dazzling inside mirror .....	2-36

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### KEY



The master key can be used for all the locks.

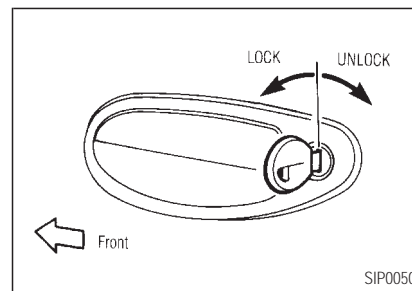
Record the key number on the key number plate and keep it in a safe place (such as your wallet), NOT IN THE CAR. A key number plate is supplied with your key. Keep the plate in a safe place. INFINITI does not record key

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.

### DOOR LOCKS

#### *Locking front doors with key*

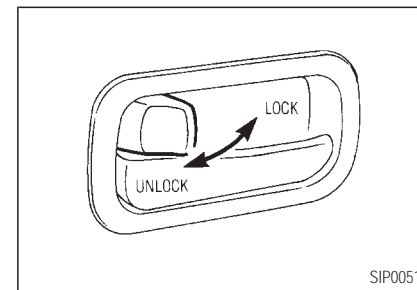


To lock the door, turn the key towards the front of the vehicle.

To unlock, turn it towards the rear.

Locking the front door will simultaneously lock the other doors.

#### *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

## PRE-DRIVING CHECKS AND ADJUSTMENTS

to leave the key inside the vehicle.

The inside lock knob cannot be set to the "LOCK" position with the front doors open and with the key in the ignition.

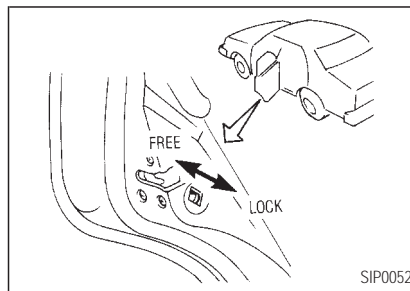
### CAUTION:

- *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.*

### CHILD SAFETY REAR DOOR LOCK

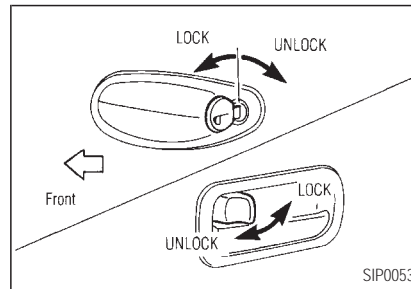
Child safety locking helps prevent doors from being opened accidentally, especially when small children are in the vehicle.

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



### POWER DOOR LOCK

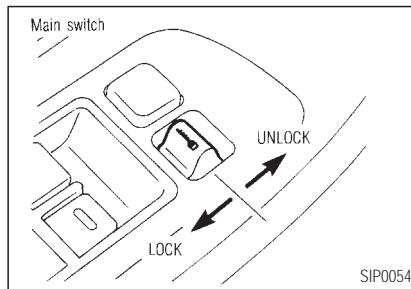
The power door lock system allows you to lock or unlock all doors simultaneously.



- Turning the front door key to the front of the vehicle will lock all doors.
- 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 5 seconds will unlock all doors.
- Pushing the front door inside lock knob to the "LOCK" position will lock all doors.



## PRE-DRIVING CHECKS AND ADJUSTMENTS



- Operating the lock-unlock switch will lock or unlock all doors.

### MULTI-REMOTE CONTROL SYSTEM

It is possible to lock/unlock all doors, to open the driver's and front passenger's windows, to release the trunk lid and to turn on or off the interior light by using the remote controller from outside the car.

**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 additional remote controllers, contact your INFINITI dealer.

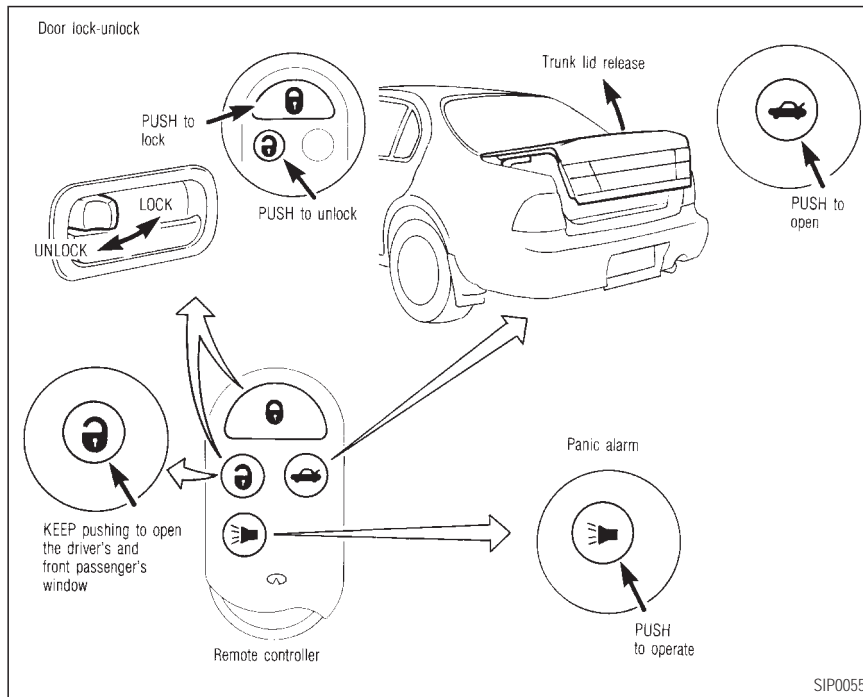
#### **CAUTION:**

*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).***

## PRE-DRIVING CHECKS AND ADJUSTMENTS



### **DOOR LOCK OPERATION**

1. Remove the ignition key.
2. Close all doors.
3. Push the lock button on the remote controller.
4. The hazard indicator flashes twice.
5. All doors will lock.

Although door locking with the remote controller can be confirmed by looking at the hazard indicator, always check to be sure that the doors are properly locked before leaving your vehicle.

### **DOOR UNLOCK OPERATION**

1. Push the unlock button on the remote controller.
2. Only the driver side door will unlock. Push the unlock button on the remote controller again within 5 seconds. All doors will unlock.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

3. 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 and turning it "ON" or by locking the doors with the remote controller or by pushing the interior light button.

### ***OPENING THE DRIVER'S AND FRONT PASSENGER'S WINDOW***

1. Push the unlock button on the remote controller for longer than 1.5 seconds after the driver's door is unlocked.
2. The driver's and front passenger's window will open.

The driver's and front passenger's window will also open after all doors are unlocked with the remote controller.

**The driver's and front passenger's**

**window cannot be closed by using the remote controller.**

### ***TRUNK LID OPENER OPERATION***

1. Push the trunk lid release button on the remote controller for longer than 0.5 second.
2. The trunk lid will open.

The trunk lid will not open when the trunk lid cancel lever is in the "CANCEL" position. It can be opened only with the key.

### ***PANIC ALARM OPERATION***

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

1. Push the panic alarm button on the remote controller for longer than 1.5 seconds.
2. The theft warning alarm and headlight will stay on for 30 seconds.

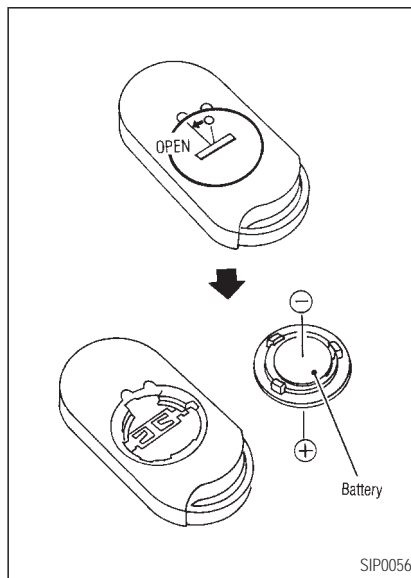
3. The alarm will stop when any of the key functions on the remote controller are used.

**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).**

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### BATTERY REPLACEMENT



Replace the battery as follows:

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

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

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

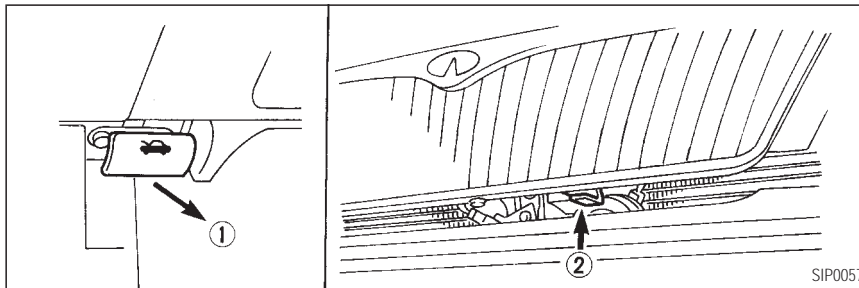
### FCC Notice:

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.

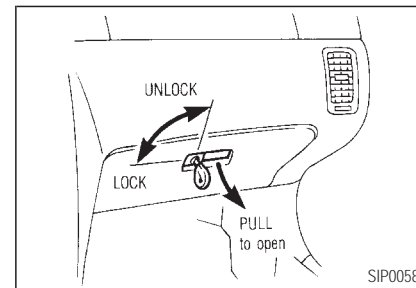
## PRE-DRIVING CHECKS AND ADJUSTMENTS

### HOOD RELEASE



1. Pull the hood lock release handle ① located below the instrument panel; the hood will then spring up slightly.
2. Pull the lever ② at the front of the hood with your fingertips and raise the hood.
3. When closing the hood, slowly close the hood and make sure it locks into place.

### GLOVE BOX LOCK



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

The glove box may be opened by pulling the handle.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

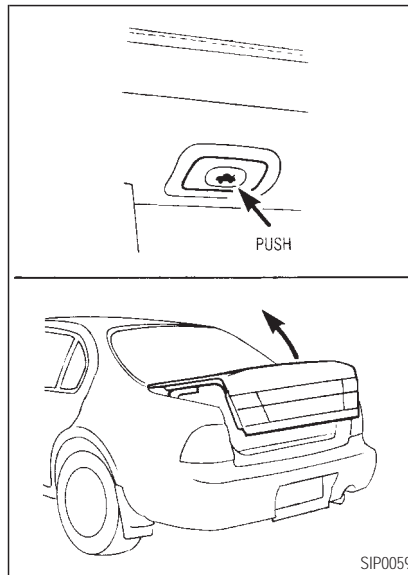
### **WARNING:**

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

### TRUNK LID LOCK

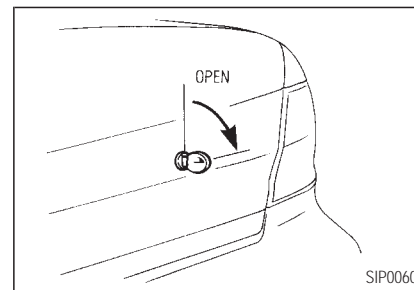
#### *Trunk lid release operation*

The trunk lid release button is located under the drivers arm rest.



To open the trunk lid, push the release button.  
To close, push the trunk lid down securely.

### *Key operation*



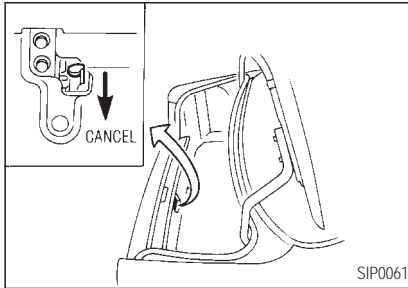
To open the trunk lid, turn the key clockwise.  
To close, lower and push the trunk lid down securely.

### **WARNING:**

*Do not drive with the trunk lid open.  
This could allow dangerous exhaust  
gases to be drawn into the vehicle.*

## PRE-DRIVING CHECKS AND ADJUSTMENTS

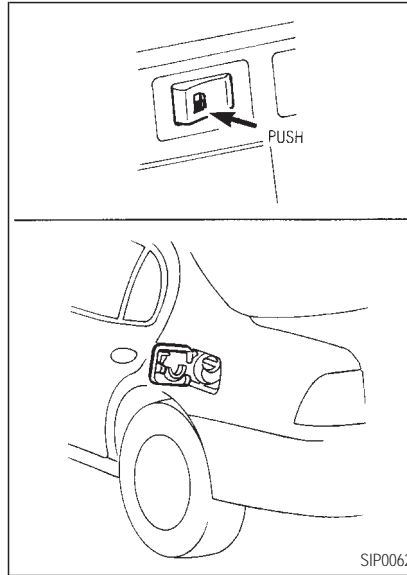
### OPENER CANCEL LEVER FOR TRUNK LID



When the lever is in the "CANCEL" position, the trunk lid cannot be opened with the trunk lid release lever or handle. It can be opened only with the key.

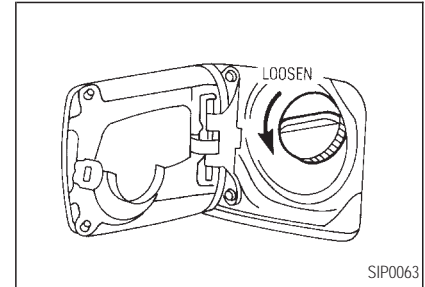
### FUEL FILLER LID LOCK

#### *Opener switch*



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

### FUEL FILLER CAP



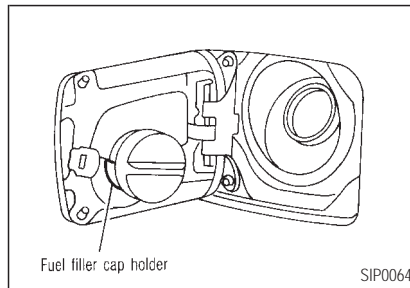
The fuel filler cap is a screw-on ratcheting type. Tighten the cap clockwise until ratcheting clicks are heard.

**If the fuel filler cap is not tightened properly, the MIL may come on.**

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### CAUTION:

- Gasoline is extremely flammable and highly explosive under certain conditions. 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.
- 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.



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

### SEATS

#### POWER SUPPORT SEAT

##### WARNING:

- Do not adjust the driver's seat while driving.
- The seatback should not be reclined any more than needed for

comfort. Seat belts are most effective when the passenger sits well back and straight up in the seat. If the seat is reclined, the risk of sliding under the lap belt and being injured is increased.

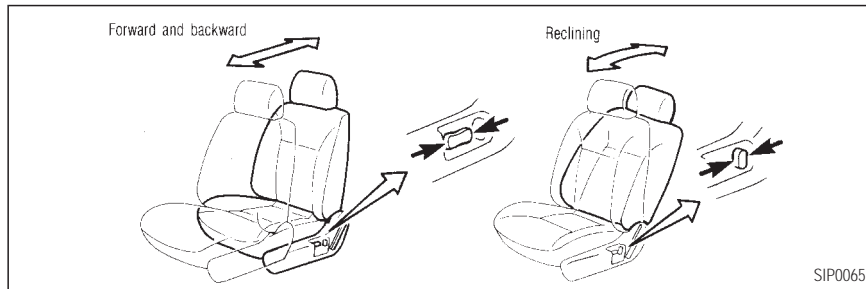
- Do not leave children unattended inside the vehicle. They may inadvertently activate switches.

#### Operating tips

- The 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 support seat for a long period of time when the engine is off. This will discharge the battery.



## PRE-DRIVING CHECKS AND ADJUSTMENTS



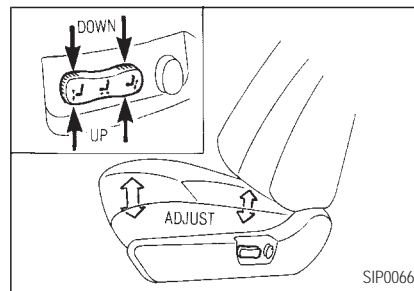
### *Forward and backward*

Move the switch forward or rearward while sliding the seat forward or rearward to the desired position.

### *Reclining*

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

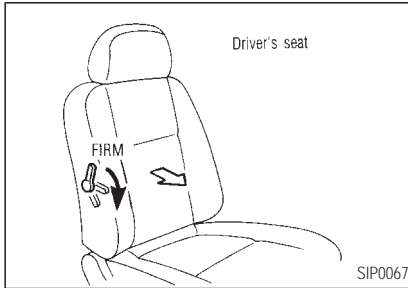
### *Seat lifter*



Push the top or bottom end of the switch to adjust the angle and height of the seat cushion to the desired position.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

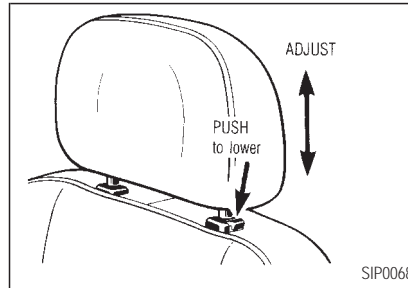
### *Lumbar support (Driver's seat)*



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

### **HEAD RESTRAINT**

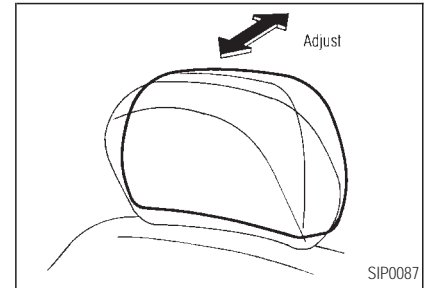
Adjust the top of the head restraints level with the top of your ears.



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 whiplash injury. Do not remove them.***

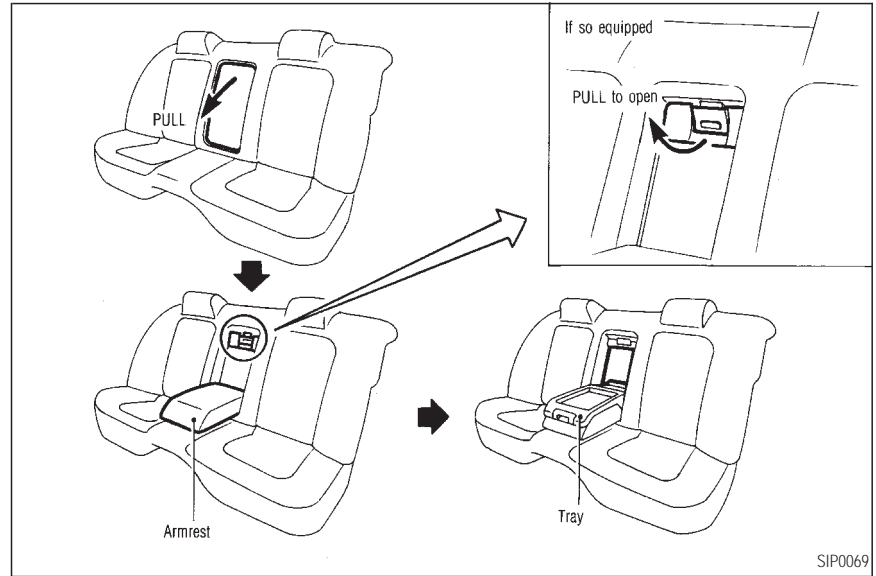


To adjust the head restraint, push it forward or rearward as shown.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### REAR SEAT

#### Center armrest and tray



Pull the armrest forward and lay it horizontal. Then release the lever (inset) and pull the tray forward (If so equipped). In this condition you

are able to gain access to the trunk.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### SUPPLEMENTAL RESTRAINT SYSTEM (AIR BAG SYSTEM)

This Supplemental Restraint System section contains important information concerning the driver and passenger air bags. The Supplemental Restraint System Air Bag can help reduce impact force to the driver and to the front passenger in certain frontal collisions. The air bags are designed to **supplement** the crash protection provided by the driver and passenger seat belts and are **not a substitute** for them. The seat belts should always be correctly worn and the driver and front passenger seated a suitable distance from the steering wheel and instrument panel. (See "Seat belts" for instructions and precautions on seat belt usage.)

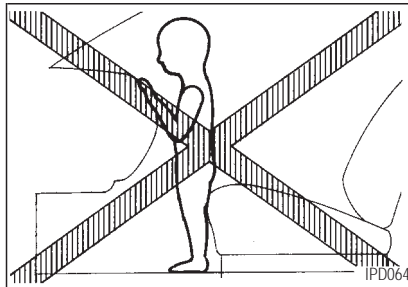
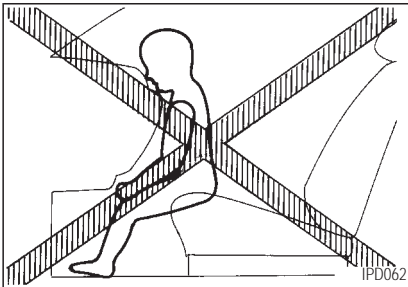
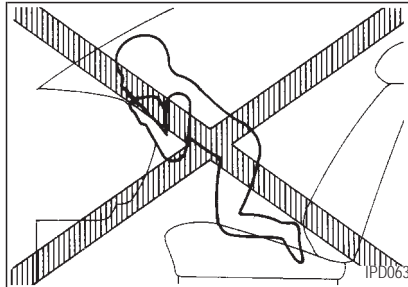
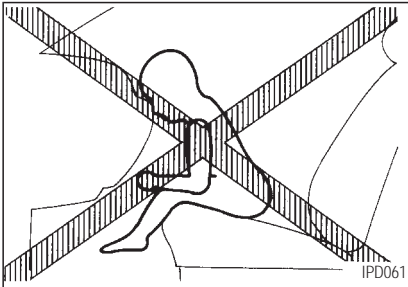
**The air bags will operate only when the ignition switch is in the "ON" or "START" position.**

#### WARNING:

- *The air bags ordinarily will not inflate in the event of a side impact, rear impact, roll over, or lower severity frontal collision; so always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.*
- *The seat belts and the air bags are most effective when you are sitting back and upright in the seat. 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 serious or fatal injuries from the air bag if you are*

*up against it when it inflates. Always sit back against the seatback and use the seat belts.*

## PRE-DRIVING CHECKS AND ADJUSTMENTS



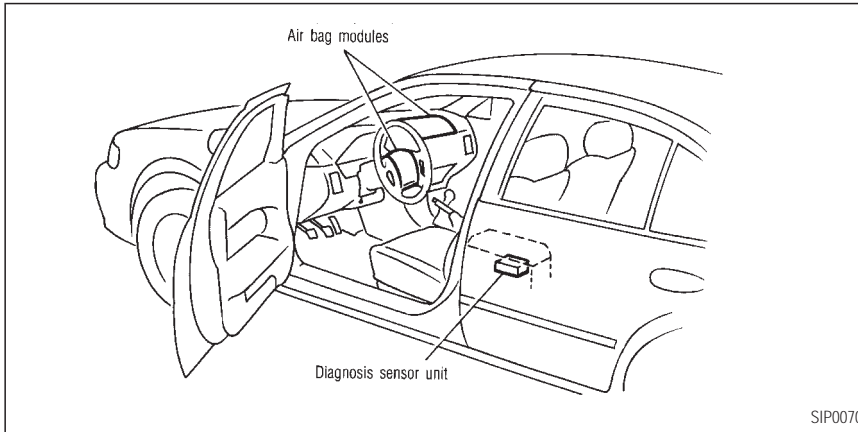
### **WARNING:**

*Never let children ride unrestrained as shown in the previous illustrations.*

*Children may be severely injured or killed when the air bag inflates if they are not properly restrained.*

*Also, never install a rear-facing child restraint in the front seat. See "Child restraints for infants and small children" for details.*

## PRE-DRIVING CHECKS AND ADJUSTMENTS



### *Air bag system*

The driver air bag is located in the center of the steering wheel; the front passenger air bag is mounted in the dashboard above the glove box. The air bag system is designed to inflate in higher severity frontal collisions, although it may inflate if the forces in another type of

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

When the 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 inhale it, as it may cause irritation and choking. Those with a history of breathing trouble should get fresh air promptly.

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 air bag may cause facial abrasions or other injuries. 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 dashboard. Since the air bag inflates quickly in order to help protect the occupant, the force of the air bag inflating can increase the risk of injury if the occupant is too close to or is against the air bag module during inflation.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

The air bag will deflate quickly after a collision.

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

### WARNING:

- *Right after inflation, several air bag system components will be hot. Do not touch them; you may severely burn yourself.*
- *No unauthorized changes should be made to any components or wiring of the air bag system. This is to prevent accidental inflation of the air bag or damage to the air bag system.*
- *Tampering with the air bag system may result in serious personal injury. Tampering includes changes*

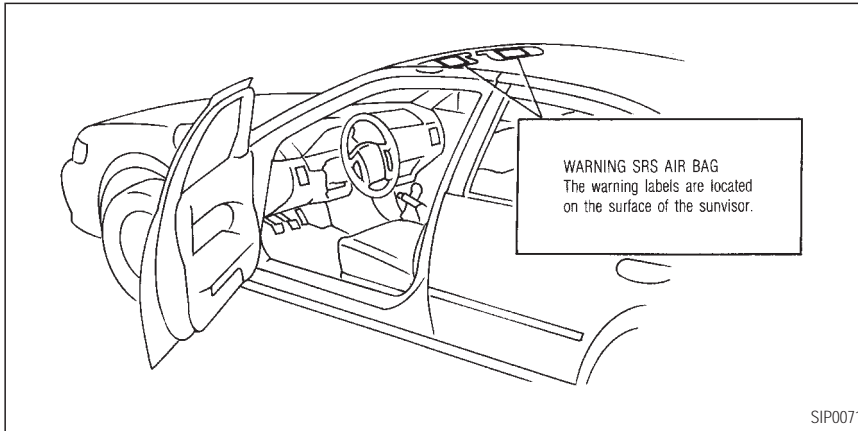
*to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the dashboard, or by installing additional trim material around the air bag system.*

- *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 air bag inflates.*
- *Work around and on the 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 yellow SRS wiring connectors should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.*

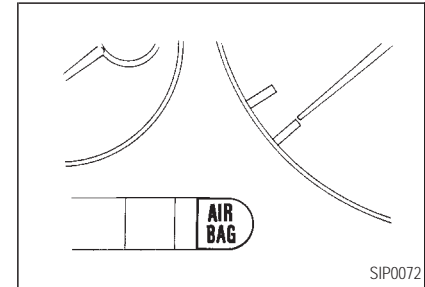
## PRE-DRIVING CHECKS AND ADJUSTMENTS

### WARNING AND CAUTION LABELS



Warning and caution labels about the air bag system are placed in the vehicle.

### AIR BAG WARNING LIGHT



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

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



## PRE-DRIVING CHECKS AND ADJUSTMENTS

If any of the following conditions occurs, the air bag needs servicing and should be taken to your nearest authorized INFINITI dealer:

1. The air bag light does not come on for 7 seconds and then goes off as described above.
2. The air bag light flashes intermittently or remains on.
3. The air bag light does not come on at all.

Under these conditions, the Supplemental Restraint System Air Bag will not operate properly. It must be checked and repaired.

### ***Repair and replacement procedure***

The air bag system is designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the air bag light will remain illuminated after inflation has occurred. Repair and replacement of the 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 as noted on the certification label located on the driver side center pillar.**

When maintenance work is required on the vehicle, the 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 air bag inflates, the air bag module will not function again and must be replaced. The air bag module cannot be repaired.***
- ***After an air bag inflates, the front instrument panel assembly should be replaced by your INFINITI dealer.***

- ***The air bag system should be inspected by an authorized INFINITI dealer if there is any damage to the front end portion of the vehicle or replaced if the air bag has inflated.***
- ***When selling your vehicle, we request that you inform the buyer about the air bag system and guide the buyer to the appropriate sections in this Owner's Manual.***
- ***If you need to dispose of an air bag or scrap the vehicle, contact an authorized INFINITI dealer. Correct 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 or killed in an accident and/or the severity of injury may be greatly reduced if you are wearing your seat belt and it is properly adjusted. INFINITI strongly encourages you and all of your passengers to buckle up every time you drive, even if your seating position includes an 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 use a seat belt at all times. Children should be in appropriate child restraints.*

- *The belt should be adjusted properly and to a snug fit. Failure to do so will reduce the effectiveness of the entire restraint system and increase the chance or severity of injury in an accident.*
- *Do not wear the belt inside out or twisted. Be sure the seat belt tongue is securely fastened to the proper buckle.*
- *Do not allow more than one person to use the same belt.*
- *All seat belt assemblies including retractors and attaching hardware should be inspected by your INFINITI dealer after any collision. 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.*

- *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 malfunction in the system. Have the system checked by your INFINITI dealer.*

*Be sure to observe the following cautions when using seat belts. Failure to do so could increase the chance*

## PRE-DRIVING CHECKS AND ADJUSTMENTS

*and/or severity of injury in an accident.*

- *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.*
- *Serious injury or death can occur if the seat belt is not worn properly.*

### CHILD SAFETY

Children need adults to help protect them.

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 that 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 possible. 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.

**Never let a child stand or kneel on any seat and do not allow a child in the cargo**

## PRE-DRIVING CHECKS AND ADJUSTMENTS

areas while the vehicle is moving.

### *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*

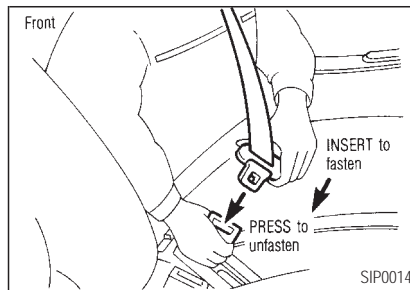
INFINITI recommends that injured persons use seat belts, depending on the injury. Check with your doctor for specific recommendations.

### *3-POINT TYPE SEAT BELT WITH RETRACTOR*

#### **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.

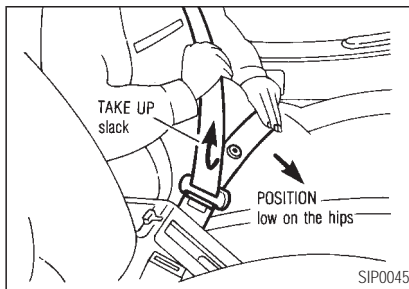
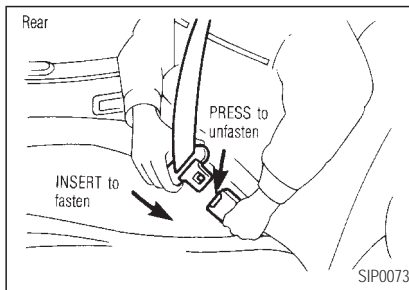
#### **WARNING:**

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

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.

## PRE-DRIVING CHECKS AND ADJUSTMENTS



3. Position the lap belt portion **low 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 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 restraints for infants and small children” later in this section for more information.

### **WARNING:**

***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 using two separate methods:

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

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

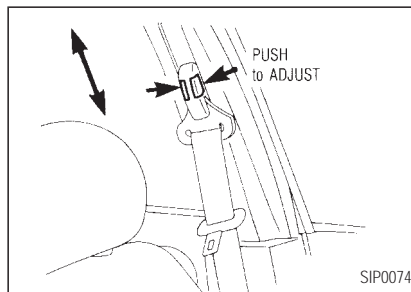
- Grasp the shoulder belt and pull quickly forward. The retractor should lock and restrict further belt movement.

If the retractor does not lock during this check or if you have any questions about belt operation, see your INFINITI dealer.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### *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".)



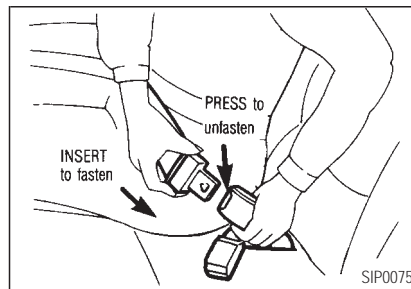
To adjust, push the release button, and then move it to the desired position, so that the belt passes over the center of the shoulder. The belt should be away from your face and neck, but not falling off of your shoulder.

### **WARNING:**

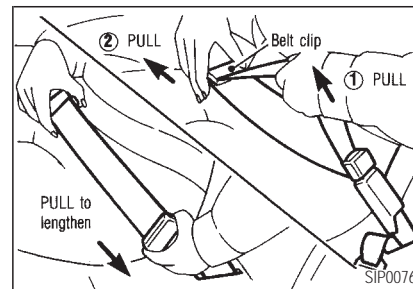
***After adjustment, release the button and try to move it up and down to make sure the shoulder belt anchor is securely fixed in position.***

### ***2-POINT TYPE WITHOUT RETRACTOR (center position of rear seat)***

### ***Fastening the belts***

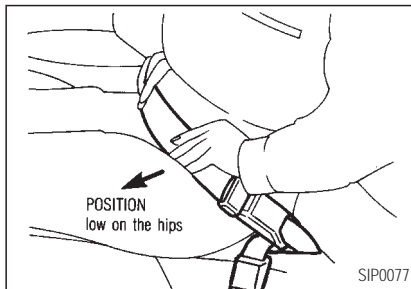


1. Insert the tongue into the buckle marked CENTER until it snaps.



2. To lengthen, hold the tongue at a right angle to the belt and pull on the belt. To shorten, pull the end of the belt attached to the belt clip away from the tongue, and then pull the belt clip to take up the slack.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

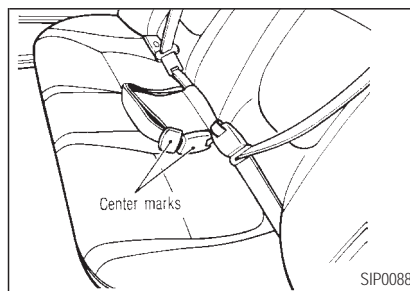


3. Position the lap belt **low on the hips** as illustrated.

### *Unfastening the belts*

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

### *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.

### *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 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 belt webbings**, apply a mild soap solution or any solution recommended for cleaning upholstery or carpets. Then brush the webbing, wipe it with a

## PRE-DRIVING CHECKS AND ADJUSTMENTS

cloth and allow it to dry in the shade. Do not allow the belts to retract until they are completely dry.

- **Periodically check to see that the belt and the metal components** such as buckles, tongues, retractors, flexible wires and anchors work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire 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 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. In general, child restraints are designed to be installed with a lap belt or the lap portion of a three-point type seat belt.*

*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.*

Child restraints specially designed for infants and small children are offered by several manufacturers. When selecting any child restraint, 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 belt system.
- 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.



## PRE-DRIVING CHECKS AND ADJUSTMENTS

### WARNING:

- *Never install a rear-facing child restraint in the front seat. A rear-facing child restraint must only be used in the rear seat. See "Installation on front passenger seat" for details.*
- *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.*

*Improper use of a child restraint can result in increased injuries for both the infant or child and other occupants in the vehicle.*

- *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 forward in case of a sudden stop or accident.*
- *After attaching a child restraint, test the restraint before you place the child in it. Tilt it from side to side. Try to tug it forward and check to see if the belt holds 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.*
- *If the child restraint is not anchored properly, the risk of a child being injured in a collision or a sudden stop greatly increases.*
- *Adjustable seatbacks should be*

*positioned to fit the child restraint, but as upright as possible.*

- *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.*
- *All U.S. states and provinces of Canada require that infants and small children be restrained in approved child restraints at all times while the vehicle is being operated.*
- *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*

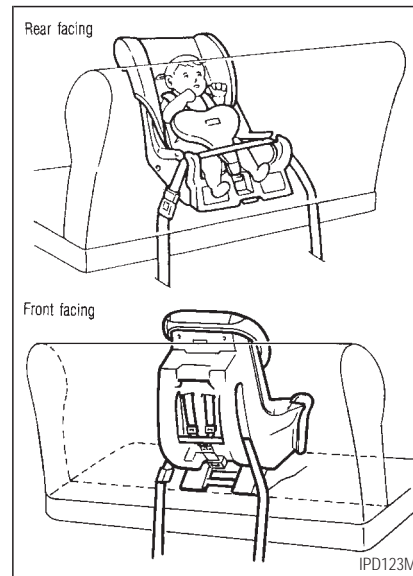
## PRE-DRIVING CHECKS AND ADJUSTMENTS

*behind the child restraint.*

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

### *Installation on rear seat*

Center lap belt



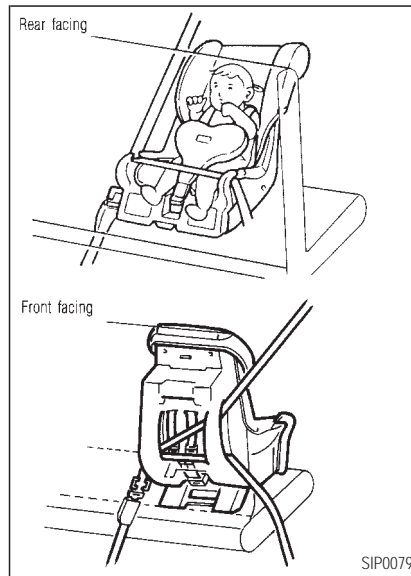
Secure the child restraint with the lap belt as illustrated. Remove all slack in the lap belt for a very tight fit by pulling forcefully on the lap

## PRE-DRIVING CHECKS AND ADJUSTMENTS

belt adjustment.

After attaching the child restraint, test it before you place the child in it. Tilt the restraint from side to side. If it is not secure, try to tighten the belt again, or put the restraint in another seat.

### *Installation on rear outboard seating positions*



### **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

## PRE-DRIVING CHECKS AND ADJUSTMENTS

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.

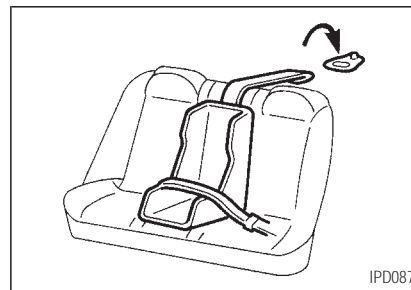
3. Pull on the shoulder belt until all of the belt is fully extended and a click is heard. At this time, the belt retractor is in the automatic locking mode (child restraint mode). (It will revert back to "emergency locking" when the belt is fully retracted.)
4. Allow the belt to retract. A clicking sound will be heard as the belt retracts. This indicates that the retractor is in the automatic locking mode. Pull down 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 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. 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 dimensions listed below must be used.

**Bolt diameter: 8.0 mm**

**Bolt length: more than 1.18 in (30 mm)**

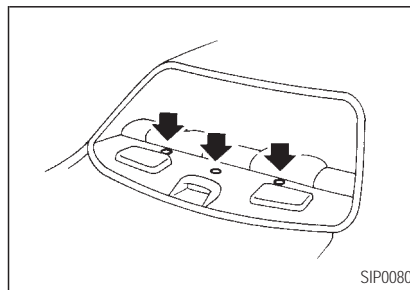
**Thread pitch: 1.25 mm**

## PRE-DRIVING CHECKS AND ADJUSTMENTS

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

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

### *Anchor point locations*



Anchor points are located under the rear parcel shelf finisher.

To use attaching hardware for child restraints with top straps, follow these instructions carefully:

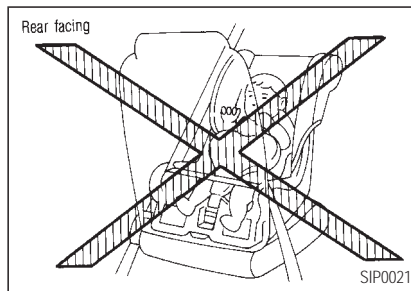
1. Open the trunk and find the anchor point nuts on the under side of the rear parcel shelf. Thread a bolt (8.0 mm diameter, 1.25 pitch) up through the nut behind the seating position where the child restraint

will be installed and use it to break through the rear parcel shelf support material. There are pre-cut circles at each anchor point location that should break away from the shelf support material when pressure is applied to them. Remove the bolt after you feel the pre-cut circle separate from the shelf support material.

2. Cut a small slit through the parcel shelf fabric at the anchor point location. Reach through the fabric with a tool such as a pair of needle-nose pliers and remove the pre-cut circle in the parcel shelf support material.
3. Install the bolt through the top strap hook and into the anchor point nut.
4. Be sure to follow all of the instructions that accompany the top strap attaching hardware.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### *Installation on front passenger seat*



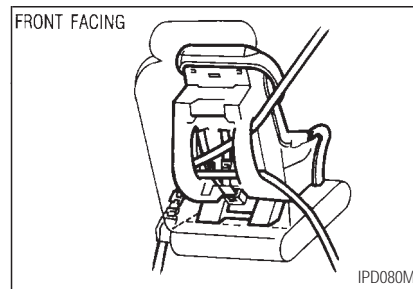
#### **WARNING:**

*Never install a rear-facing child restraint in the front passenger seat. Air bags inflate with great force. A rear-facing child restraint could be struck by the 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.



#### **WARNING:**

- *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 locking 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

## PRE-DRIVING CHECKS AND ADJUSTMENTS

until you hear and feel the latch engage.

Be sure to follow the child restraint manufacturer's instructions for belt routing.

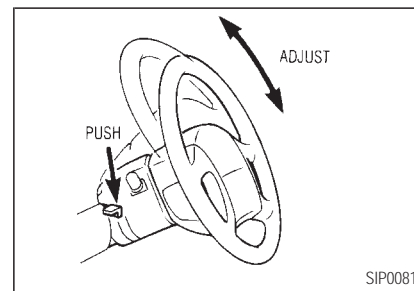
3. Pull on the shoulder belt until all of the belt is fully extended and a click is heard. At this time, the belt retractor is in the automatic locking mode (child restraint mode). (It will revert back to "emergency locking" when the belt is fully retracted.)
4. Allow the belt to retract. A clicking sound will be heard as the belt retracts. This indicates that the retractor is in the automatic locking mode. Pull down on the belt to remove any slack in the belt.
5. Before placing the child in the child restraint, use force to tilt the child restraint from side to side, and tug it forward to make sure that it is securely held in place.
6. Check that the retractor is in the automatic locking mode by trying to pull more belt out of the retractor. If you cannot pull any

more belt webbing out of the retractor, the belt is in the automatic locking mode.

7. Check to make sure that the child restraint is properly secured prior to each use. If the lap belt is not locked, repeat steps 3 through 6.

After the child restraint is removed and the seat belt is allowed to wind back into the retractor, the automatic locking mode (child restraint mode) is canceled; the seat belt 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, adjust the steering wheel up or down to the desired position.

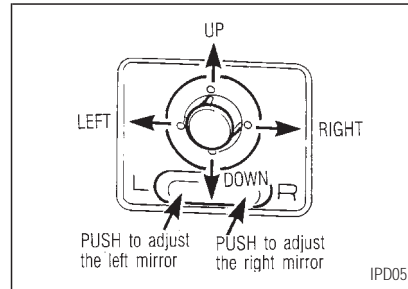
Push the lock lever back into place to lock the steering wheel in place.

## PRE-DRIVING CHECKS AND ADJUSTMENTS

### WARNING:

*Do not adjust the steering wheel while driving.*

### OUTSIDE MIRROR REMOTE CONTROL

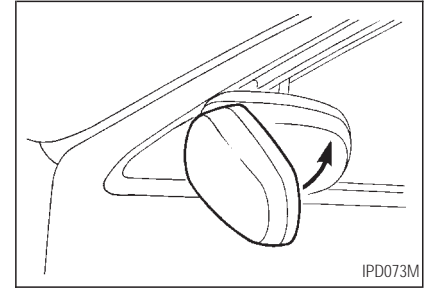


The outside mirror will operate only when the ignition switch is in the "ACC" or "ON" position.

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

**Objects viewed in the outside mirror on the passenger side are closer than they appear.**

### FOLDABLE OUTSIDE MIRRORS

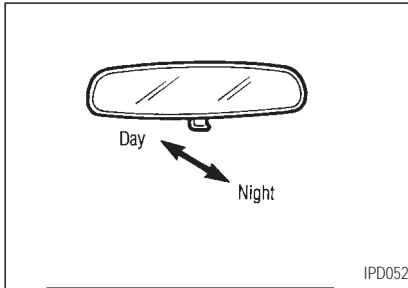


Push the outside mirror backward to fold it.



## PRE-DRIVING CHECKS AND ADJUSTMENTS

### INSIDE MIRROR

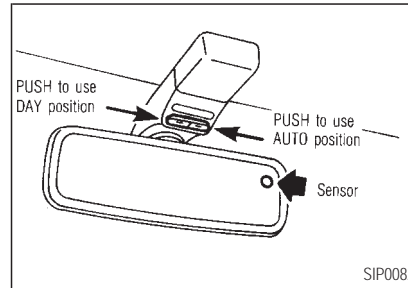


The night position will reduce glare from the headlights of vehicles behind you at night.

#### **CAUTION:**

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

### AUTOMATIC ANTI-DAZZLING INSIDE MIRROR



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

Push the DAY switch during daylight driving. At night when the headlights of the following vehicle can cause excessive glare in the inside mirror, push the AUTO switch.

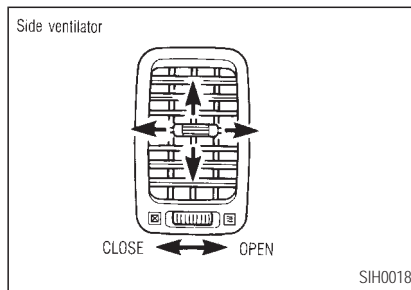
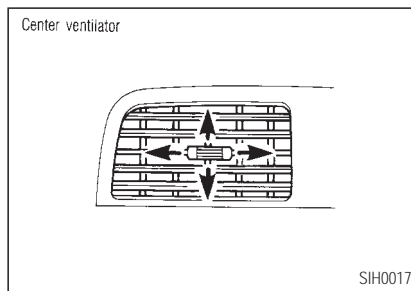
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## HEATER/AIR CONDITIONER/AUDIO SYSTEM

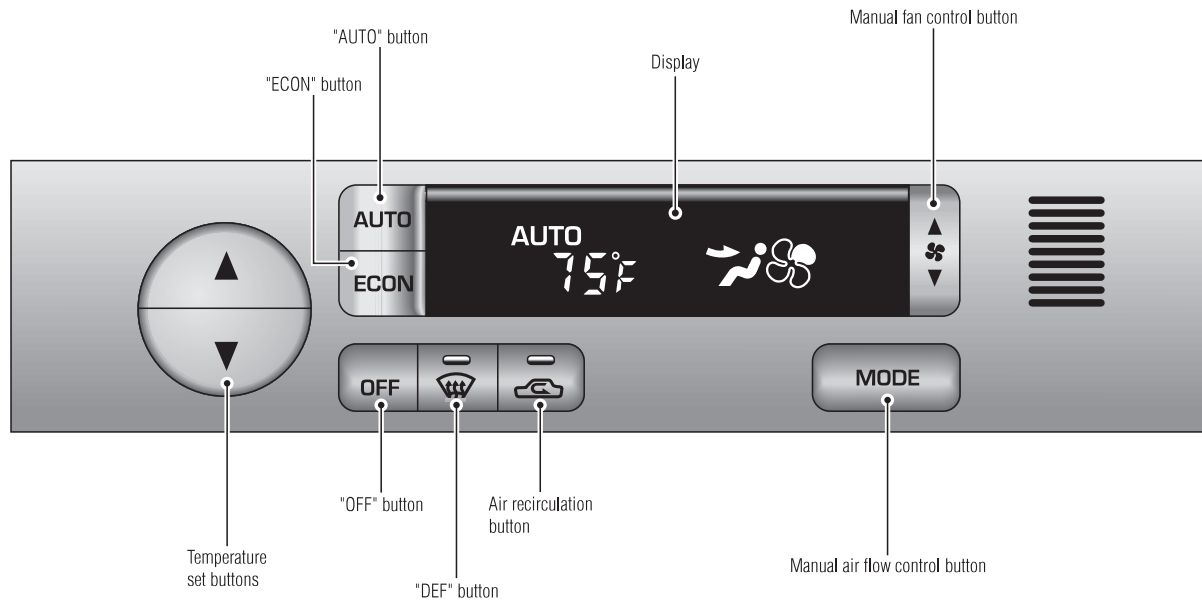
### VENTILATOR

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



# HEATER/AIR CONDITIONER/AUDIO SYSTEM

## AUTOMATIC AIR CONDITIONER



SIH0019



## HEATER/AIR CONDITIONER/AUDIO SYSTEM

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

**The air conditioner cooling function operates only when the engine is running.**

### *Cooling and/or dehumidified heating (Auto mode)*



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

1. Push the AUTO button on. ("AUTO" will be displayed.)
2. Push the temperature set button " " " to set the desired temperature.
  - Adjust the temperature set button to about 75°F (24°C) for normal operation.
  - The temperature of the passenger compartment will be maintained automatically. Air


flow distribution and fan speed are also controlled automatically.

### *Heating (ECON mode)*






The air conditioner does not activate. When you need to heat only, use this mode.

1. Push the ECON (ECONOMY) button on. ("ECON" will be displayed.)
2. Push the temperature set button " " " to set the desired temperature.
  - The temperature of the passenger compartment will be maintained automatically. Air flow distribution and fan speed are also controlled automatically.
  - Do not set the temperature lower than the outside air temperature. Otherwise the system may not work properly.
  - Not recommended if windows fog up.

### *Dehumidified defogging*

1. Push the DEF " " button on. (The


indicator light on the button will come on.)

2. Push the temperature set button " " " to set the desired temperature.
  - To quickly 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 35°F (2°C) to defog the windshield, and the air recirculation mode will automatically be turned off.

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


## HEATER/AIR CONDITIONER/AUDIO SYSTEM

### Manual fan speed control

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

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

### Air recirculation button


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

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

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

### Manual air flow control button “MODE”

Pushing the manual air flow control button selects the air outlet to:

 : Air flows from center and side ventilators.

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

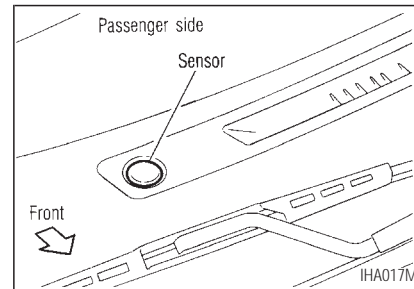
 : Air flows mainly from foot outlets.

### To turn 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 a maximum of 150 seconds. However, this is not a malfunction. After the coolant temperature warms up, the air flow from the foot outlets will operate normally.



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

### Servicing air conditioner

The air conditioning system in your INFINITI vehicle is charged with a new refrigerant designed with the environment in mind. **This new refrigerant will not harm the earth's ozone layer.** However it may contribute in a small part to global warming. Special charging equipment and lubricant are required when servicing your INFINITI air conditioner.

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

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.

### 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 re-

ception quality normally are caused by these external influences.

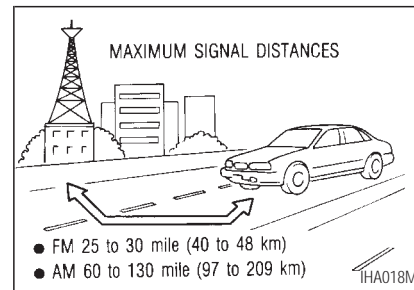
### RADIO RECEPTION

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

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example they will reflect off objects.

Fade and drift: As your vehicle moves away from a station transmitter, the signals will tend to fade and/or drift.

Static and flutter: During signal interference from buildings, large hills or due to antenna position, usually in conjunction with increased distance from the station transmitter, static or flutter can be heard. This can be reduced by adjusting the TREBLE control counterclockwise to reduce treble response.

Multipath reception: Because of the reflective characteristics of FM signals, direct and reflected signals reach the receiver at the same time. The signals may cancel each other, resulting in momentary flutter or loss of sound.

### *AM RADIO RECEPTION*

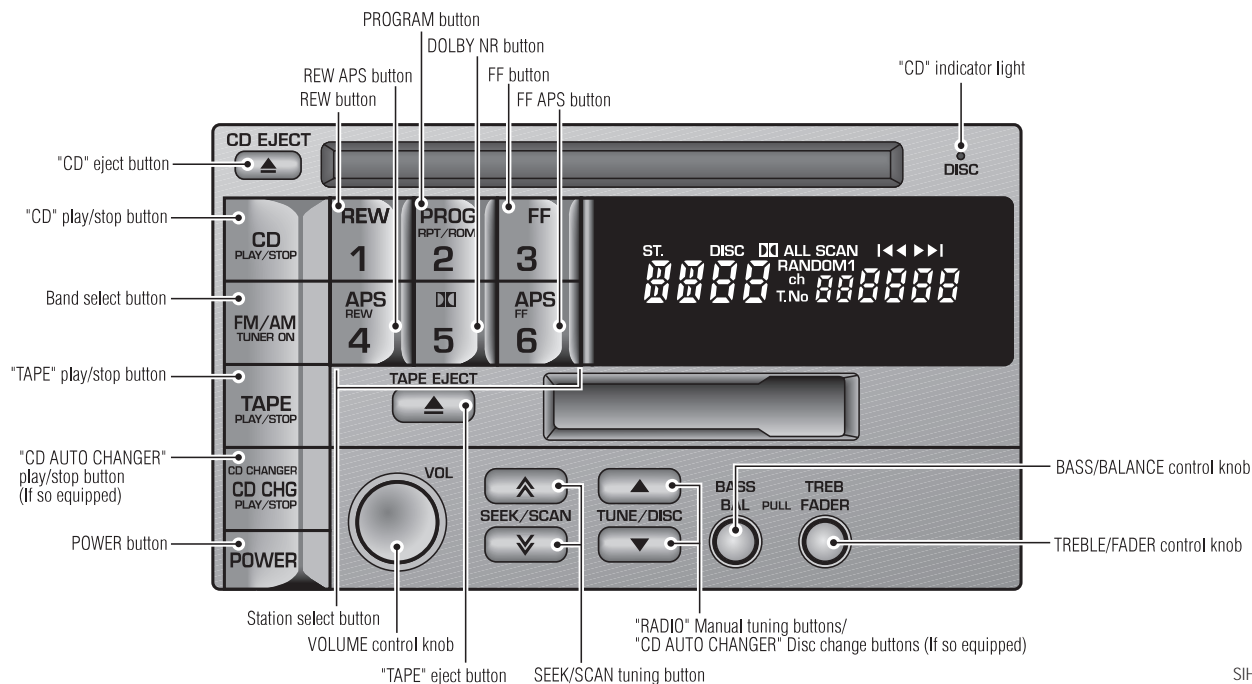
AM signals, because of their low frequency, can “bend” around objects and skip along the ground. In addition, the signals can be bounced off the ionosphere and bent back to earth. Because of these characteristics. AM signals are also subject to interference as they travel from transmitter to receiver.

Fading: Occurs while the vehicle is passing through freeway underpasses or in areas with many tall buildings. It can also occur for several seconds during ionospheric turbulence even in areas where no obstacles exist.

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



# HEATER/AIR CONDITIONER/AUDIO SYSTEM



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## HEATER/AIR CONDITIONER/AUDIO SYSTEM

### **AM-FM RADIO WITH CASSETTE PLAYER AND COMPACT DISC PLAYER (Bose® audio system)**

#### 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 a permalloy 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.

#### **Power button**

POWER

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

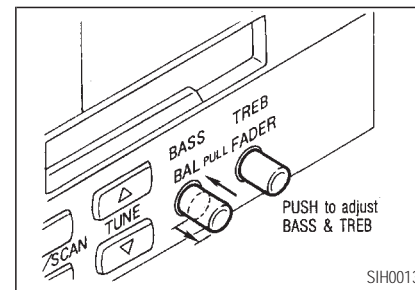
then push the POWER button while the system is off to call up the mode (radio, tape or CD) which was playing immediately before the system was turned off. When no CD or tape is loaded, the radio will come on. While the system is on, pushing the POWER button turns the system off.

To turn the radio off, press the POWER button.

#### ***VOL (volume) control knob***

Turn the VOLUME control knob to adjust the volume.

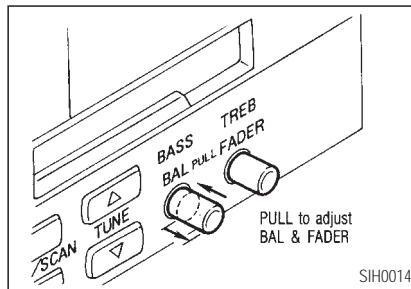
#### ***Adjusting tone quality***



Push then turn the BASS and TREB (TREBLE) control knobs to obtain the most pleasant sound.

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

### *Adjusting speaker sound balance*



Push then pull the BAL (BALANCE) control knob to adjust the volume between the right and left speakers.

### *FADER volume control*

Push then pull the FADER control knob to adjust the volume between the front and rear speakers.

### *RADIO OPERATION*

#### *FM/AM band select button*

FM / AM

Pushing the FM/AM band select button will change the band.

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 power 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 will automatically change from stereo to monaural reception.

### *TUNE button*



#### **WARNING:**

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

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.

#### *SEEK/SCAN buttons*



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

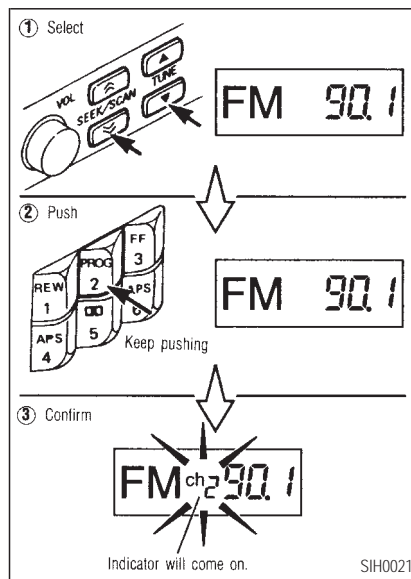
## HEATER/AIR CONDITIONER/AUDIO SYSTEM

the radio will remain tuned to that station.

### SEEK tuning

Push the SEEK/SCAN tuning button " $\approx$ " or " $\approx$ " for less than 1.5 seconds. SEEK tuning begins from low to high frequencies and stops at the next broadcasting station.

### Station memory operations



Six stations can be set for each band.

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 ceases emitting sounds when the select button is pushed.)
3. The indicator "ch2" will then come on and the sound will resume. Memorizing is now complete.
4. Other buttons can be set in the same manner.

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

### Cassette tape operation

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

The radio or CD will turn off (if it is on) and

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

the cassette tape will begin to play.

**Do not force the cassette tape into the tape door.**

**Pressing strongly could cause player damage.**



If the system is turned off by pushing the "POWER" button with the cassette tape still in the player, the tape will resume playing when the system is turned back on.

**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.

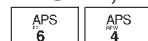
While the tape is playing, pushing the TAPE button stops the tape. Pushing the button

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 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 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 search correctly.

**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 noise reduction manufactured under

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol  are trademarks of Dolby Laboratories Licensing Corporation.

### *Metal or chrome tape usage*

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

### *TAPE EJECT 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.

### *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 peeling 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.

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

### *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.

After loading the disc, the number of tracks on the disc and the play time will appear on the display.

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

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

**Forcing in the compact disc will damage the player.**



If the system has been turned off while the compact disc was playing, pushing the POWER button will start the compact disc.

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

**APS 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, the 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. The same program may be repeated twice.

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

- **When the compact disc is ejected, the**

## HEATER/AIR CONDITIONER/AUDIO SYSTEM

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.*

- *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.*

## ANTENNA

### 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 there is no one 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 automated 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.*



## HEATER/AIR CONDITIONER/AUDIO SYSTEM

### CB RADIO OR CAR PHONE

If equipped with a genuine cellular phone, your INFINITI features a non-directional microphone, so it is not necessary to look at or speak directly into the microphone when calling. To do so could detract from the driving operation and cause an accident.

See the manual for car phone operation.

All INFINITI I30 models are pre-wired to accept the genuine INFINITI cellular phones.

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 EFI (Electronic 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 EFI 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.*

### EXHAUST GAS (Carbon Monoxide)

#### WARNING:

*Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconscious-*

*ness 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 for any longer than is absolutely necessary.*
- Do not park the vehicle with the engine running for any extended length of time.*
- Keep the trunk lid, or back door closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive in this manner for some reason, take the following steps.*

*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 pass to a trailer through the seal on the trunk lid or the body, follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.*
- The exhaust system and body should be inspected by a qualified mechanic whenever:*
  - a. The vehicle is raised for service.*
  - b. You suspect that exhaust fumes are entering into the passenger compartment.*

## STARTING AND DRIVING

- 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 converter are burned at high temperatures to help reduce pollutants.

#### WARNING:

- *The exhaust gas and the exhaust system are very hot. While the engine is running, keep people 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, as they may burn easily.*

#### *To help prevent damage*

- Do not use leaded gasoline.

Deposits from leaded gasoline will seriously reduce the three way catalyst's ability to help reduce exhaust pollutants.

- Keep your engine tuned up. Malfunctions in the ignition, fuel injection,

or electrical systems can cause overrich fuel flow into the converter, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by an authorized INFINITI 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.

## STARTING AND DRIVING

### AVOIDING COLLISION AND ROLLOVER

Failure to operate this vehicle in a safe and prudent manner may result in loss of control or an accident. Be alert and drive defensively at all times. Obey all traffic regulations. Avoid excessive speed, high speed cornering, or sudden steering maneuvers, because these driving practices could cause you to lose control of your vehicle. **As with any vehicle, a loss of control could result in a collision with other vehicles or objects, or cause the vehicle to rollover, particularly if the loss of control causes the vehicle to slide sideways.** Be attentive at all times, and avoid driving when tired. Never drive when under the influence of alcohol or drugs (including prescription or over-the-counter drugs which may cause drowsiness). Always wear your seat belt as outlined in the "Seat Belts" section of this manual, and also instruct your passengers to do so.

### DRINKING ALCOHOL/DRUGS AND DRIVING

#### WARNING:

***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.***

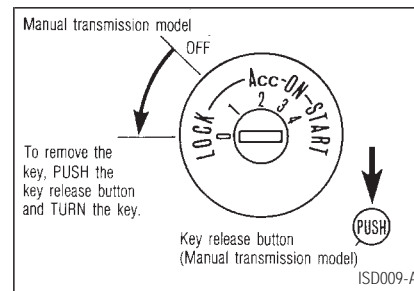
INFINITI is committed to safe driving. But, you must choose not to drive under the influence of alcohol. Every year thousands of people are injured or killed in alcohol related accidents. Although the local laws vary on what is considered to be legally intoxicated, the fact is that alcohol affects all 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). Don't drive if your ability to operate your vehicle is impaired by alcohol, drugs, or some other physical condition.

### IGNITION SWITCH



## STARTING AND DRIVING

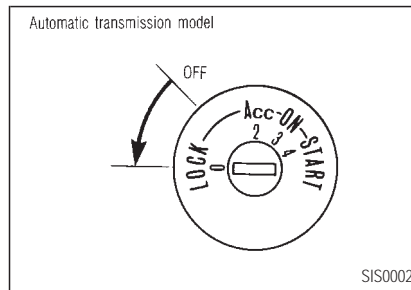
The switch includes an anti-theft steering lock device.

“LOCK” Normal parking position (0)

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

On manual transmission models, to turn the ignition key to “LOCK” from “ACC” or “ON”, turn the key to “OFF” and press in the key release button, then turn the key to “LOCK”.

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



On automatic transmission models, the ignition lock is designed so that the key cannot be turned to “LOCK” and removed until the shift lever is moved to the “P” position.

When removing the key from the ignition, make sure the shift lever is in the “P” position.

If the shift 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 shift 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 shift lever cannot be moved from “P” (Park). **The shift lever can be moved if the ignition switch is in the “ACC” position. The shift 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 counter-clockwise from the straight up position.

## STARTING AND DRIVING

### **WARNING:**

*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.*

*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.*

### **"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.

### **"ON" Normal operating position (3)**

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

### **"START" (4)**

This position activates the starter motor, starting the engine.

## BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle is clear.
- Maintenance items listed here should be checked periodically, e.g., each time you check engine oil.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance

and condition. Also check tires for proper inflation.

- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when key is turned to the "ON (3)" position.

## DRIVING WITH AUTOMATIC TRANSMISSION

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

Shown on the following pages are the recommended operating procedures for this transmission. Follow these procedures for maxi-

## STARTING AND DRIVING

imum vehicle performance and driving enjoyment.

### *Starting the vehicle*

- After starting the engine, fully depress the foot brake pedal before shifting the selector lever to the "R", "N", "D", "2" or "1" position. Be sure the vehicle is fully stopped before attempting to shift the selector lever.

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

The shift lever cannot be moved out of "P" and into any of the other gear positions if the key is removed from the switch.

When the battery charge is low, the shift lever can be moved if the ignition switch is in the "ACC" position.

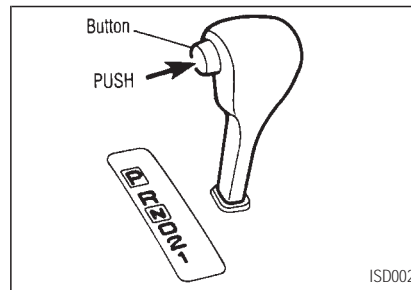
1. Keep the foot brake pedal depressed and shift into a driving gear.
  2. Release the parking brake and foot brake, then gradually start the vehicle in motion.
- Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.
  - Avoid revving up the engine while the vehicle is stopped. This could cause unexpected vehicle movement.

### *Driving precautions*

To help prevent transmission damage:

- 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.
- Never shift to "P" or "R" while vehicle is moving.

- 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.



Push the button to shift into "P", "R" or from "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. Always be



## STARTING AND DRIVING

sure the vehicle is at a complete stop. For maximum safety, depress the brake pedal, then push in the select lever button and move the lever to the "P" position. Apply the parking brake. When parking on a hill, apply the parking brake first, then shift the lever into the "P" position.

### *Shifting from "P" (Park)*

If the ignition switch is in the "ON" position and the foot brake pedal is depressed, but the shift 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.
3. Reinsert the ignition key and turn it clockwise to the "ACC" position.
4. Depress the brake pedal, move the gear-shift lever to "N" (Neutral) and start the engine.
5. Check stop light operation.

### **WARNING:**

***If the shift 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 stoplights are not operating properly.

### "R" (Reverse):

Use this position to back up. Always be sure the vehicle is completely stopped. With the brake pedal depressed, push in the select lever button and move the lever to the "R" position.

### "N" (Neutral):

Neither forward nor 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.

Do not exceed 73 MPH (117 km/h) in the "2" position.

### "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.

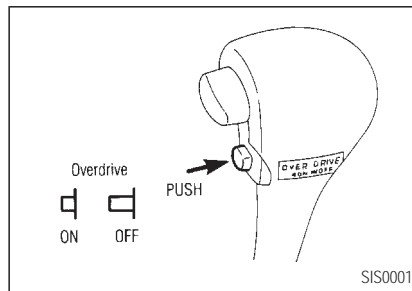
## STARTING AND DRIVING

Do not exceed 40 MPH (65 km/h) in the "1" position.

### **Accelerator downshift** — In "D" position —

For rapid 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 switch**



**ON:** For normal driving, push the overdrive switch "ON" with the selector switch in the "D" position. The transmission is upshifted into OVER-DRIVE 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 speed or climbing a gentle slope, you may feel uncomfortable shift shocks 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, reset 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 reduces the fuel economy.

### **Fail-safe**

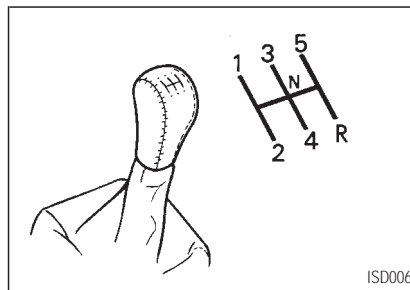
When the Fail-safe operation occurs, the next time the key is turned to the "ON" position, the O/D OFF light will blink for approximately 8 seconds after coming on for 2 seconds. While the vehicle can be driven under these circumstances please note that the gears in the automatic transmission will be 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**

## STARTING AND DRIVING

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

### DRIVING WITH MANUAL TRANSMISSION



To change gears, fully depress the clutch pedal, then move the gearshift lever. After shifting, release the clutch slowly.

On the 5-speed transmission model, you cannot shift directly from 5th gear into Reverse. First shift into Neutral, then into Reverse.

If it is difficult to move the shift lever into Reverse or 1st, shift into Neutral, then release

the clutch pedal and shift into Reverse or 1st again.

#### *Driving precautions*

- Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.
- Stop your vehicle completely before shifting into reverse.

#### *Suggested shift-up speeds*

Shown below are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual shift-up speeds will vary according to road conditions, the weather and individual driving habits.

## STARTING AND DRIVING

For normal acceleration in low altitude areas [less than 4,000 ft (1,219 m)]:

Gear change	ACCEL shift point MPH (km/h)	CRUISE shift point MPH (km/h)
1st to 2nd	13 (24)	13 (24)
2nd to 3rd	23 (40)	16 (29)
3rd to 4th	33 (58)	27 (48)
4th to 5th	39 (64)	36 (63)

For quick acceleration when the engine is cold or in high altitude areas [over 4,000 ft (1,219 m)]:

Gear change	MPH (km/h)
1st to 2nd	15 (24)
2nd to 3rd	25 (40)
3rd to 4th	40 (64)
4th to 5th	45 (72)

### *Suggested maximum speed in each gear*

Downshift to a lower gear if the engine is not

running smoothly, or if you need to accelerate.

Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not overrev the engine when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

Gear	MPH (km/h)
1st	30 (50)
2nd	55 (90)
3rd	80 (130)
4th	—
5th	—

## STARTING THE ENGINE

1. Apply the parking brake.
2. **Automatic transmission:**

Move the selector lever to “P” (Park) or

“N” (Neutral). (“P” preferred.)

**The shift lever cannot be moved out of “P” and into any of the other gear positions 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.**

### **Manual transmission:**

Move the gearshift lever to “N” (Neutral), and depress the clutch pedal to the floor while cranking the engine.

**The starter is designed not to operate unless the clutch pedal is depressed.**

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.

## STARTING AND DRIVING

— 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.

— In the summer, when restarting the engine within 30 minutes after it has been stopped, keep the accelerator pedal fully depressed while starting.

### CAUTION:

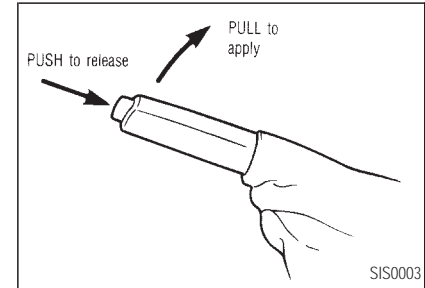
*Do not operate the starter for more than 15 seconds at a time. If the engine does not start, wait 10 seconds before cranking again, otherwise the starter could be damaged.*

#### 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



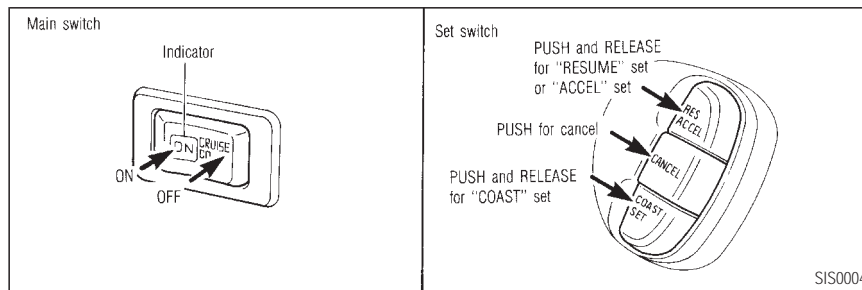
**To apply:** pull the lever up.

**To release:** pull the lever up slightly, push the button and lower completely. Before driving, be sure the parking brake warning light goes out.

# STARTING AND DRIVING

## CRUISE CONTROL

The cruise control allows driving at a speed between 30 to 89 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 at cruising speed**, accelerate your vehicle to the desired speed, push the SET/COAST switch and release it. (The

"CRUISE" light will come on.) Take your foot off the accelerator pedal. Your vehicle will maintain the set speed.

- **To pass another vehicle**, depress the accelerator pedal. When you release the

pedal, the vehicle will return to the previously set speed.

- The vehicle may not maintain the set speed when going up or down steep hills. If this happens, drive without the cruise control.

**To cancel the preset speed**, follow either of these three methods:

- a) Push the cancel switch; 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.
- If you depress the brake pedal while pushing the "ACCEL" set switch and reset at the cruising speed, turn the main switch off once and then turn it on again.
  - The cruise control will automatically be cancelled if the vehicle slows down below approximately 8 MPH (13 km/h).

## STARTING AND DRIVING

- Depress the clutch pedal (manual transmission), or move the selector lever to “N” (automatic transmission). The “CRUISE” light will go out.

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

- a) Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the “SET/COAST” switch.
- b) Push and hold the “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 three methods:

- a) Lightly tap the brake pedal. When the vehicle attains the desired speed, push the

“SET/COAST” switch and release it.

- b) Push and hold the “SET/COAST” switch. Release the switch when the vehicle slows down to the desired speed.
- c) Push, then quickly release the “SET/COAST” switch. Each time you do this, the set speed will decrease by about 1 MPH (1.6 km/h).

**To resume the preset speed,** push and release the “RESUME” 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 light in the instrument panel will then blink to warn the driver.
- When the cruise indicator light blinks, turn the cruise control switch (main switch)

“OFF” and have the system checked by your INFINITI dealer.

- The cruise indicator light may blink when the cruise control main switch is turned “ON” while pushing the “RES/ACCEL”, “COAST/SET”, or “CANCEL” switch (located on the steering wheel). To properly set the cruise control system perform the steps above in the order indicated.

### **Avoid using 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 roads, or hilly roads.
- on slippery roads (rain, snow, ice, etc.)
- in very windy areas.

## STARTING AND DRIVING

### CAUTION:

*On manual transmission models, do not shift into neutral without depressing the clutch pedal when the cruise control is on. This could cause engine damage. If this happens, depress the clutch pedal and turn the main switch off immediately.*

## BREAK-IN SCHEDULE

During the first 1,000 miles (1,600 km), follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

- Do not drive over 55 MPH (90 km/h) and do not run the engine over 4,000 rpm. Avoid driving for long periods at constant speed, either fast or slow.

- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (800 km).

## ECONOMY HINTS

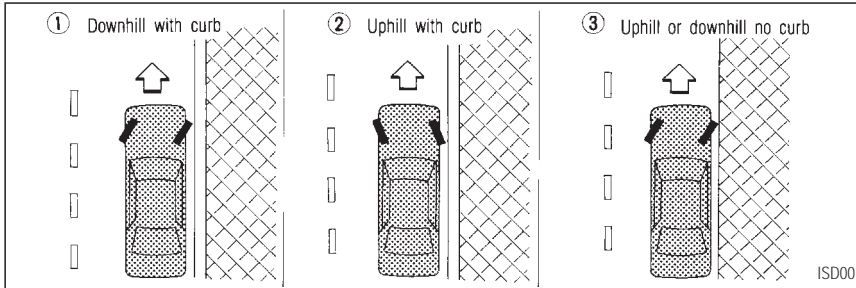
- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway. Driving at high speed will lower fuel economy.
- Avoid unnecessary stopping and braking. Maintain a safe distance behind other vehicles.
- Use a proper gear range which suits road conditions. On level roads, shift into high gear as soon as possible.

- Avoid unnecessary engine idling.
- Keep your engine tuned up.
- Follow the recommended periodic maintenance schedule.
- Keep the tires inflated at the correct pressure. Low pressure will increase tire wear and waste fuel.
- Keep the front wheels in correct alignment. Improper alignment will cause not only tire wear but also 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.



# STARTING AND DRIVING

## PARKING/PARKING ON HILLS



### CAUTION:

*Do not park the vehicle over flammable materials such as dry grass, waste paper or rags, as they may burn easily.*

1. Firmly apply the parking brake.

### 2. Manual transmission models:

Place the gearshift lever in the "REVERSE" position. When parking on an uphill grade, place the gearshift lever in the "1st" position.

### Automatic transmission models:

Move the gearshift lever to the "P" (PARK) position.

### CAUTION:

*Safe parking procedures require that both the parking brake be set and the transmission placed into "P" (park) position. 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.*

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.

# STARTING AND DRIVING

- **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.

## **CAUTION:**

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

## **PRECAUTIONS WHEN DRIVING**

- **Driving with 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.

- **Driving with the power assisted steering:**

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.

- **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.

- Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear out the brake linings and pads faster and reduce gas mileage.
- To help save the brakes and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance

## STARTING AND DRIVING

and could result in loss of vehicle control.

- While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking actions or sudden acceleration could cause the wheels to skid.

### ANTI-LOCK BRAKE SYSTEM

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 and sliding. By preventing wheel lockup, the system helps the driver maintain steering control and helps to minimize swerving and spinning on slippery surfaces.

#### *Using the system*

Depress the brake pedal and hold it down. **It is not necessary to pump the brake pedal.** Doing so may result in increased stopping distances.

#### *Normal operation*

The anti-lock brake system will not operate at speeds below 3 to 6 MPH (5 to 10 km/h) to

completely stop the vehicle. (The speeds will vary according to road conditions.) When the anti-lock system senses that one or more wheels are close to locking up, the actuator (under the hood) rapidly applies and releases hydraulic pressure (like pumping the brakes very quickly). While the actuator is working, you may feel a pulsation in the brake pedal and hear a noise or vibration from the actuator under the hood. This is normal and indicates that the anti-lock system is working properly. However, the pulsation may indicate that road conditions are hazardous and extra care is required while driving.

#### *Self-test feature*

The anti-lock brake system consists of electronic sensors, electric pumps, and hydraulic solenoids controlled by a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the "self-test" oc-

## STARTING AND DRIVING

curs, you may hear a “clunk” 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 is cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slippery surfaces, but*

*remember that the stopping distance on slippery surfaces will be longer than on normal surfaces, even with the anti-lock system. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Always maintain a safe distance from the vehicle in front of you. Ultimately, the responsibility for safety of 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 the “Technical and consumer information” section.*

## STARTING AND DRIVING

### COLD WEATHER DRIVING CAUTIONS

#### *Freeing a frozen door lock*

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

#### *Anti-freeze*

In the winter when it is anticipated that the temperature will drop below 32°F (0°C), check anti-freeze (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. The SUMMER tires are of a tread design to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, Nissan recommends the use on all four wheels of MUD & SNOW or ALL SEASON tires. Please consult your Nissan dealer for the tire type, size, speed rating and availability information.
2. For additional traction on icy roads, stud-

ded 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. Snow chains may be used if desired. Make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. Use 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 undercarriage. In addition, drive at a reduced speed, otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

## STARTING AND DRIVING

### *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*

- 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 and accelerate gently. If accelerated too fast, the drive wheels will spin and will lose even more traction.
- Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.
- Allow greater following distances on slippery roads.
- Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while actually on the ice, and avoid any sudden steering maneuvers.

### *Engine block heater*

#### **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

Flat tire .....	5-2
Jump starting .....	5-7
Push starting .....	5-9
If your vehicle overheats.....	5-9
Tow truck towing .....	5-10



## IN CASE OF EMERGENCY

### FLAT TIRE

If you have a flat tire, follow the instructions below.

#### *Stopping the vehicle*

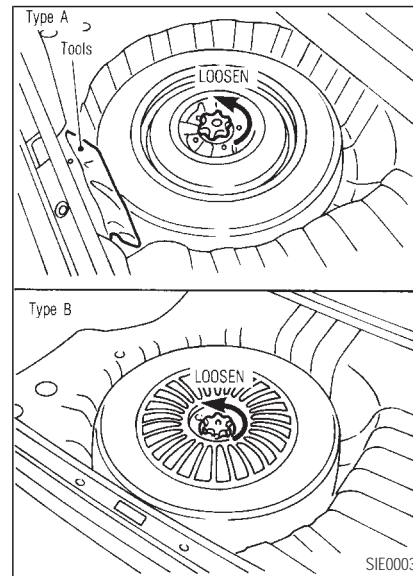
1. Safely move the vehicle off the road away from traffic.
2. Turn on the hazard warning flashers.
3. Park on a level surface and apply the parking brake. Shift the manual transmission into reverse (automatic transmission in "P").
4. Turn off the engine.

#### **WARNING:**

- ***Make sure that the parking brake is securely applied and the manual transmission is shifted into reverse (automatic transmission in "P").***

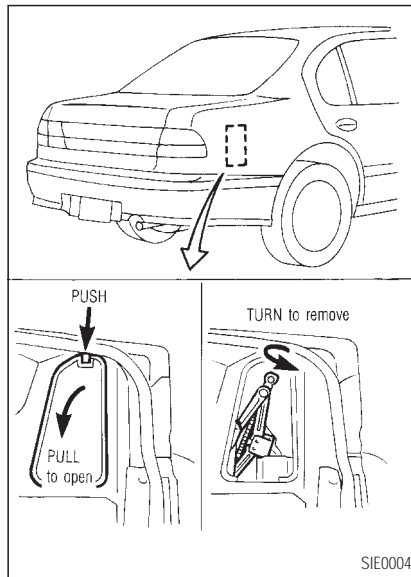
- ***Never change tires when the vehicle is on a slope, ice or slippery areas. This is dangerous.***
- ***Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.***
- ***Raise the hood to warn other traffic, and to signal professional road assistance personnel that you need assistance.***
- ***Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.***

#### *Getting the spare tire and tools*

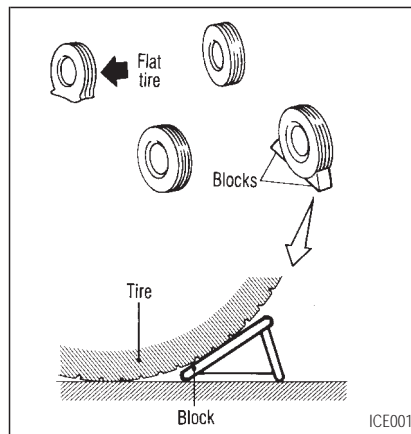


Remove jacking tools and spare tire from the storage area located inside the trunk as illustrated.

## IN CASE OF EMERGENCY



### Blocking wheels

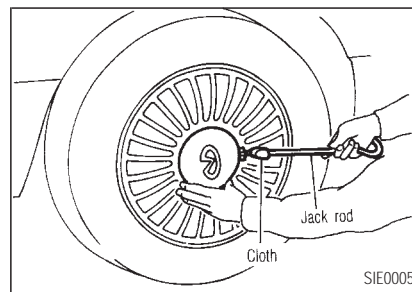


Place suitable blocks at both the front and back of the wheel diagonally opposite the flat tire to prevent the vehicle from rolling when it is jacked up.

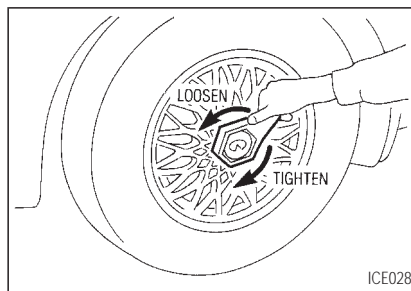
### WARNING:

Be sure to block the wheel as the vehicle may move.

### Removing wheel caps



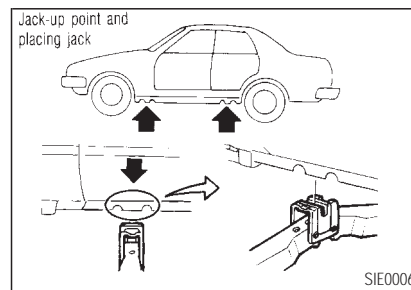
## IN CASE OF EMERGENCY



### **WARNING:**

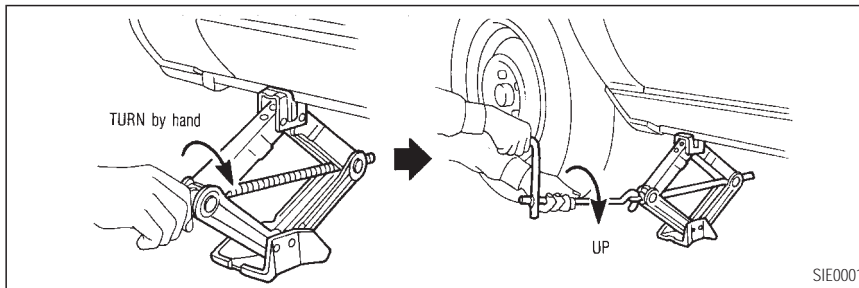
*Do not use your hands to pry off wheel caps. Doing so could result in personal injury.*

### *Jacking up and removing tire*



To help avoid personal injury, carefully read the caution label attached to the jack body and the following instructions.

## IN CASE OF EMERGENCY



1. Place the jack directly under the jack-up point as illustrated above so that top of the jack contacts the vehicle at the jack up point. Align the jack head between the two notches in the front or the rear as shown. Also fit the groove of the jack head between the notches as shown.

**The jack should be used on level firm ground.**

2. Loosen each wheel nut one or two turns by turning counterclockwise with the wheel nut wrench. **Do not remove the wheel nuts until the tire is off the ground.**
3. Carefully raise the vehicle until the tire clears the ground. Remove the wheel nuts, and then remove the tire.

### **WARNING:**

- **Never get under the vehicle while it is supported only by the jack.**
- **Use only the jack provided with your vehicle. Do not use the jack provided with your vehicle on other vehicles.**

*The jack is designed only for lifting your vehicle during a tire change.*

- **To lift the vehicle, securely hold the jack lever and rod with both hands as shown above.**
- **Use the correct jack up points; never use any other part of the vehicle for jack support.**
- **Never jack up the vehicle more than necessary.**
- **Never use blocks on or under the jack.**

## IN CASE OF EMERGENCY

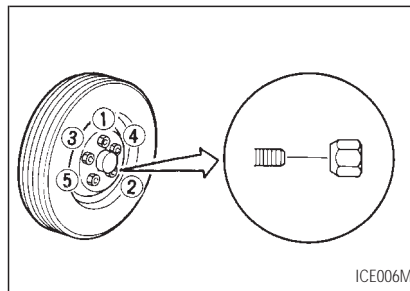
- *Do not start or run engine while vehicle is on the jack as it may cause the vehicle to move.*
- *Do not allow passengers to stay in the vehicle while it is on the jack.*
- *Do not raise the vehicle using a bumper jack.*
- *Never run the engine with the wheel off the ground. It may cause the vehicle to move. This is especially true for models equipped with limited slip differential carrier.*

### Installing wheel

The T-type spare tire is designed for emergency use. See specific instructions under the heading "Wheel and tire" in the "Do-it-yourself" section.

1. Clean any mud or dirt from the surface between the wheel and hub.

2. Carefully put the wheel on and tighten the wheel nuts finger tight.



3. With the wheel nut wrench, tighten wheel nuts alternately and evenly until they are tight.
4. Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence as illustrated.

### CAUTION:

- *As soon as possible tighten the*

*wheel nuts to the specified torque with a torque wrench.*

Wheel nut tightening torque:

72 to 87 ft-lb  
(98 to 118 N·m)

- Adjust tire pressure to the COLD pressure.

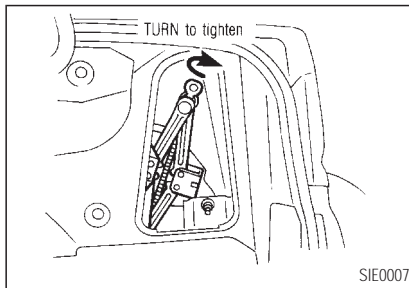
COLD pressure:

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 center console lid.

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

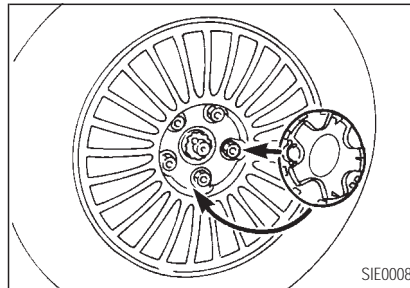
## IN CASE OF EMERGENCY



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.*
- *The T-type spare tire and small size spare tire are designed for emergency use. See specific instructions under the heading "Wheel and tire" in the "Do-it-yourself" section.*



Fit the wheel cap onto the wheel, ensuring the wheel nuts are correctly aligned with the holes in the cap. Forcing the cap on may cause it to be deformed.

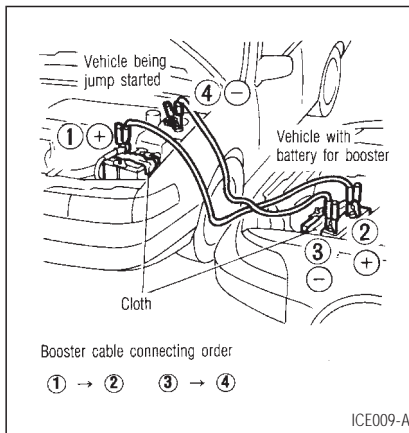
## JUMP STARTING

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

### CAUTION:

- *If done incorrectly, jump starting can be hazardous.*
- *Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.*
- *Do not allow battery fluid to come into contact with eyes, skin, cloth or painted surfaces. Battery fluid is a corrosive sulphuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.*
- *A battery rated at above 12 volts should not be used for a booster.*
- *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 metal jewelry.*

- **Keep battery out of the reach of children.**



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

## IN CASE OF EMERGENCY

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

**Do not allow the two vehicles to touch.**

2. Apply parking brake. Move the shift lever to "Neutral" (On automatic transmission models, move the 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 (e.g., strut mounting bolt, etc. — not to the battery).**

- **Make sure that cables do not touch moving parts in the engine compartment and that clamps do not contact any other metal.**

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

### CAUTION:

**Do not keep starter motor engaged for more than 10 seconds. If the engine does not start right away, turn the key off and wait 3 to 4 seconds before trying again.**

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

## PUSH STARTING

### CAUTION:

- *Automatic transmission models cannot be push started. This may cause transmission damage.*
- *Three-way catalyst equipped models should not be started by pushing 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*

## IN CASE OF EMERGENCY

*vehicle to collide with the tow vehicle.*

### IF YOUR VEHICLE OVER-HEATS

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:

*To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious injury.*

1. Move the vehicle safely off the road, apply the parking brake and move the gearshift

lever to neutral (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. Get out of the vehicle. Look and listen for steam or coolant escaping from the radiator before opening the hood. Wait until no steam or coolant can be seen before proceeding.
4. Open the engine hood.

### WARNING:

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

5. If engine overheating is caused by climb-



## IN CASE OF EMERGENCY

ing 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.

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.

### **WARNING:**

***Be careful not to allow your hands, hair or clothing to come into contact with, or to get caught in, the running fan, belts, or motor fan.***

***The fan motor can start at any time when the coolant temperature is high.***

***If coolant is leaking, the cooling fan belt is missing or loose, or the cooling fan does not run, stop the engine.***

7. After the engine cools down, check the coolant level in the reservoir tank with the

engine running. Add coolant to the reservoir tank if necessary. Have your vehicle repaired at the nearest INFINITI 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 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.

### **CAUTION:**

- ***When towing, make sure that the transmission, axles, steering system and power train are in working condition. If any unit is damaged, a dolly must be used.***
- ***When towing with the front wheels on the ground:***

***Turn the ignition key to the "OFF" position and secure the steering wheel in a straight-ahead position with a rope or similar device. Never place the ignition key in the "LOCK" position. This will result in damage to the steering lock mechanism.***

***Move the gearshift lever to the neutral ("N" position).***

***On automatic transmission mod-***

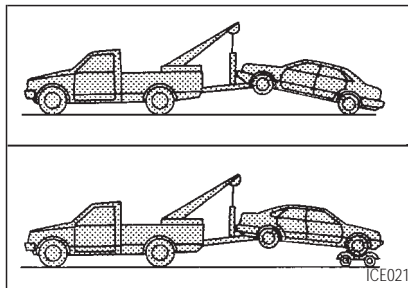
## IN CASE OF EMERGENCY

els, to move the shift lever to the Neutral position, turn the ignition key to the "OFF" or "ACC" position. After moving the shift lever to the Neutral position, be sure to turn the ignition key to the "OFF" position.

- When towing with the rear wheels on the ground, release the parking brake.

On automatic transmission models, to move the shift lever to the Neutral ("N" position), turn the ignition key to the "OFF" or "ACC" position. After moving the shift lever to the Neutral position, be sure to turn the ignition key to the "OFF" position.

- Attach safety chains for all towing.

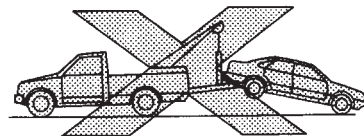


INFINITI recommends that your vehicle be towed with the driving (front) wheels off the ground as illustrated.

- Speed: Below 70MPH (115 km/h)
- Distance: Less than 500 miles (800 km)

*Towing an automatic transmission model with rear wheels raised (with front wheels on the ground)*

Automatic transmission model



### CAUTION:

*Never tow an automatic transmission model with the rear wheels raised (with the front wheels on the ground) as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised, always use a towing dolly under the front wheels.*

*If you have to tow an automatic transmission model with four wheels on ground*

Observe the following restricted towing speeds and distances.

- **Speed:** Below 30 MPH (50 km/h)
- **Distance:** Less than 40 miles (65 km)

**CAUTION:**

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

*VEHICLE RECOVERY (Freeing a stuck vehicle)*

- Tow chains or cables must be attached

## IN CASE OF EMERGENCY

only to the main structural members of the vehicle.

- Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.
- Always pull the cable straight out from the front or rear of the vehicle. Never pull on the vehicle at a sideways angle.
- Pulling devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

## 6 APPEARANCE AND CARE

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Corrosion protection .....	6-6

## 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
- After driving on coastal roads
- When things 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 detergent (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 under the hot sun, as the surface may become water-spotted.***
- ***Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so that the paint surface is not scratched or damaged.***

#### *Waxing*

If you wish to wax your vehicle, only use a wax specified for use over clear coats, such as Nissan Liquid or Spray Wax, because your

## APPEARANCE AND CARE

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*

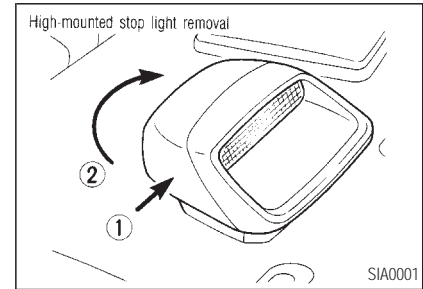
Remove tar and oil spots, industrial dust, insects, and tree sap as quickly as possible from the paint surface to avoid lasting damage or staining. Special cleaning products are

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 sharp-edged tools, abrasive cleaners or chlorine based***

## APPEARANCE AND CARE

***disinfectant cleaners. They could damage electrical conductors or rear window defogger elements.***

### ***Cleaning 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.

### ***Plastic parts***

Plastic parts may be cleaned with a mild soap solution. If the dirt cannot be easily removed, use a plastic cleaner. Do not use solvents.

### ***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 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.

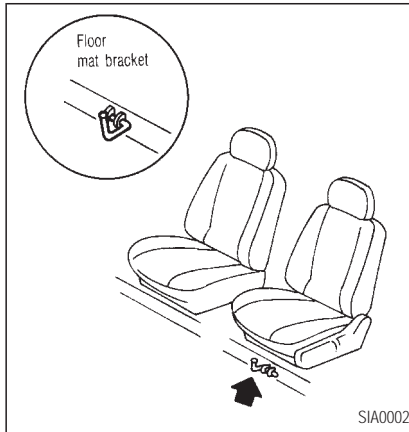
INFINITI offers vinyl and leather cleaner for more difficult stains or soiled surfaces. See your INFINITI dealer for assistance in choosing the proper product.

### ***CAUTION:***

- ***Never use benzine, thinner, or any similar solvents.***
- ***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.***

## APPEARANCE AND CARE

### *Floor mat positioning aid (Driver side only)*



Your INFINITI 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's side floor mat has a grommet hole incorpo-

rated 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.

### *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. 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.



## APPEARANCE AND CARE

### CORROSION PROTECTION

#### *Most common factors contributing to vehicle corrosion:*

1. The accumulation of moisture-retaining dirt and debris in body panel sections, cavities, and other areas.
2. Damage to paint and other protective coatings caused by gravel and stone chips or minor traffic accidents.

#### *Environmental factors influence the rate of corrosion:*

##### Moisture

Accumulation of sand, dirt and water on the vehicle body underside can accelerate corrosion. Wet floor coverings will not dry completely inside the vehicle, and should be removed for drying to avoid floor panel corrosion.

##### Relative humidity

Corrosion will be accelerated in areas of high relative humidity, especially those areas where the temperatures stay above freezing where atmospheric pollution exists, or where road salt is used.

##### Temperature

A temperature increase will accelerate the rate of corrosion to those parts which are not well ventilated.

##### Air pollution

Industrial pollution, the presence of salt in the air in coastal areas, or heavy road salt use will accelerate the corrosion process. Road salt will also accelerate the disintegration of paint surfaces.

#### *To protect your vehicle from corrosion:*

- Wash your vehicle often to keep the vehicle clean.
- Always check for minor damage to the paint and repair it as soon as possible.
- Keep drain holes at the bottom of the doors open to avoid water accumulation.
- Check the underbody for accumulation of sand, dirt or salt. If present, wash with water as soon as possible.
- **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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## 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.

- Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. Move the transmission control lever to neutral ("N").
- Be sure the ignition key is "OFF" or "LOCK" when performing any replacement or repair.
- When the ignition key is in the "ON" or "ACC" position, the cooling fan may start to operate suddenly even when the engine is not running.
- Do not work under the hood while

the engine is hot. Turn off the engine and wait until it cools down.

- If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.
- It is advisable to 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.
- Never connect or disconnect either

the battery or any transistorized component connector while the ignition is on.

- On gasoline engine models with the Multiport fuel injection system, the fuel filter or fuel lines should be serviced by a INFINITI dealer because the fuel lines are under high pressure even when the engine is off.
- Failure to follow these or other common sense guidelines may lead to serious injury or vehicle damage.
- 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 an owner to perform.

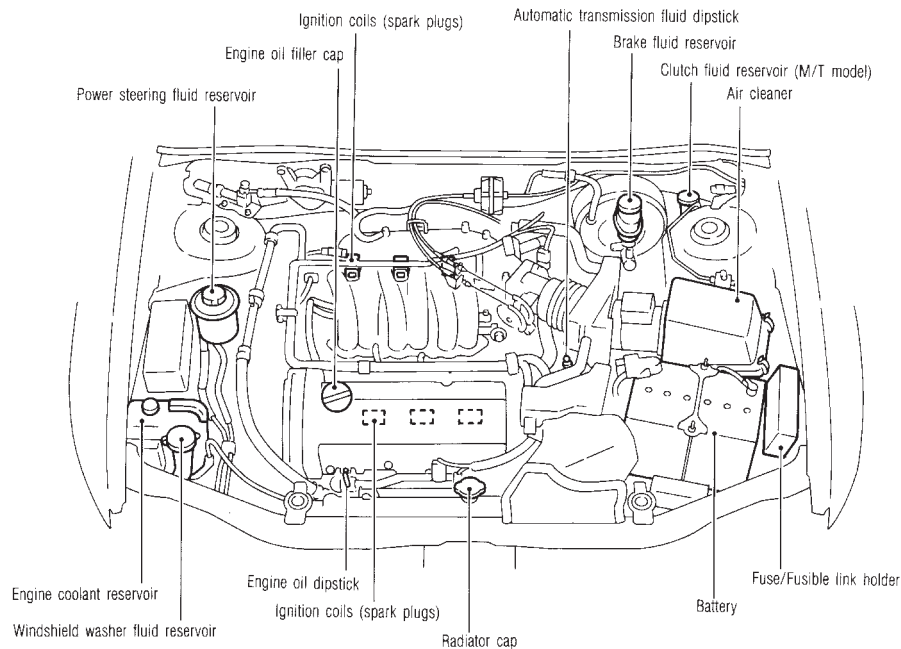
You should be aware that incomplete or

## DO-IT-YOURSELF

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



SID0017

## 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, be sure to use only an ethylene glycol anti-freeze with the proper mixture ratio. Examples are shown below:*

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

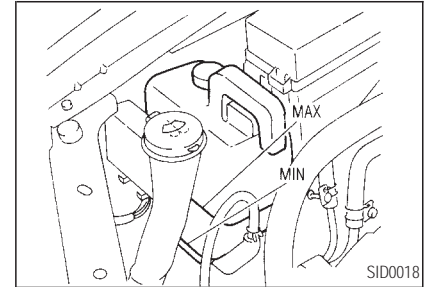
The use of other types of coolant solutions may damage your cooling system.

The radiator is equipped with a pressure cap. Use a genuine cap or its equivalent when replacement is required.

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.

### CHECKING ENGINE COOLANT LEVEL



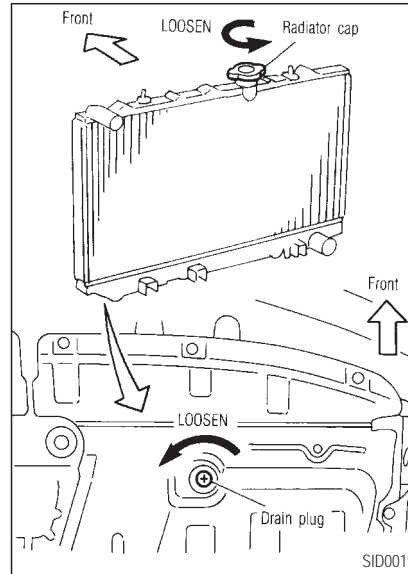
Check the coolant level in the reservoir tank when the engine is cold. If the coolant level is below "MIN", add coolant up to the "MAX" level. If the reservoir tank is empty, check the coolant level in the radiator **when the engine is cold**. If there is insufficient coolant in the radiator, fill the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

**If the cooling system frequently requires**

## DO-IT-YOURSELF

coolant, 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.

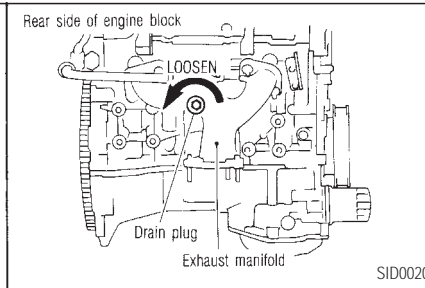
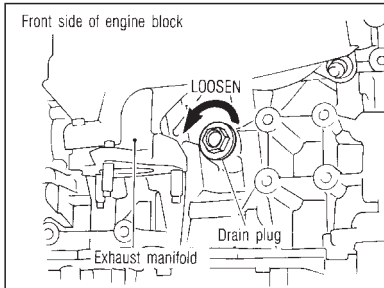
- Improper servicing can result in reduced heater performance and engine overheating.

#### **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. Open the radiator cap and drain plug.

## DO-IT-YOURSELF



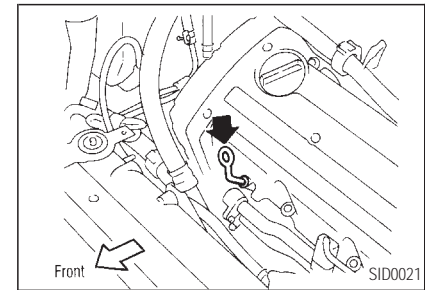
2. Open the drain plug on the engine block.
3. Flush the cooling system by running fresh water through the radiator.
4. Close the radiator drain plug and the drain plug on the engine block securely.
5. See the "Technical information" section for cooling system capacity. Fill the radiator slowly with the proper mixture of coolant and water. Fill the reservoir tank up to the "MAX" level. Then install the radiator cap.
6. Start the engine, and warm it up until the

radiator fan operates. Then race the engine 2 or 3 times under no load. Watch the coolant temperature gauge for signs of overheating.

7. 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.
8. Check the radiator drain plug and the drain plug on the engine block for any sign of leakage.

## ENGINE OIL

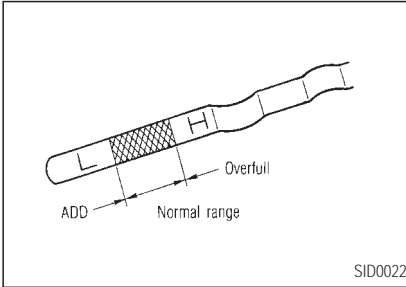
### CHECKING ENGINE OIL LEVEL



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



## DO-IT-YOURSELF

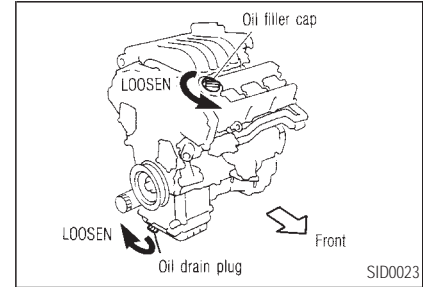


4. Remove the dipstick and wipe it clean. Reinsert it all the way.
5. Remove the dipstick again and check the oil level. It should be between the "H" and "L" marks. If the oil level is below the "L" mark, remove the oil filler cap and pour recommended oil through the opening. **Do not overfill.**
6. Recheck oil level with dipstick.

### 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.*
- *It is normal to add some oil between oil maintenance intervals or during the break-in period, depending on the severity of operating conditions.*

## 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.

## DO-IT-YOURSELF

If oil filter is to be changed, remove and replace it at this time. See "Changing oil filter".

### **WARNING:**

***Be careful not to burn yourself, as the engine oil is hot.***

### **CAUTION:**

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

6. Clean and re-install the drain plug and new washer. Securely tighten the drain plug with a wrench.

**Drain plug tightening torque:**

**22 to 29 ft-lb  
(29 to 39 N·m)**

Do not use excessive force.

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

See the "Technical and consumer information" section for 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 with the dipstick. Add engine oil if necessary.

### **WARNING:**

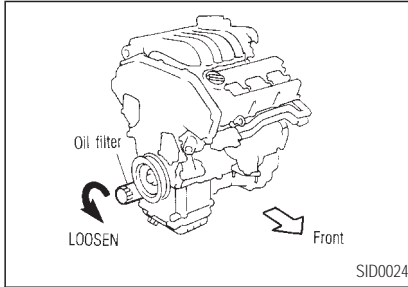
- ***Prolonged and repeated contact with used engine oil may cause skin cancer.***
- ***Try to avoid direct skin contact with used oil. If skin contact is made, wash thoroughly with soap***

***or hand cleaner as soon as possible.***

- ***Keep used engine oil out of reach of children.***

## DO-IT-YOURSELF

### CHANGING 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. (Depending on the engine model, a special **cap type** wrench may be required. See your INFINITI dealer if in doubt.) Remove the oil filter by turning it by hand.

#### **WARNING:**

***Be careful not to burn yourself, as the engine oil may be hot.***

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

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

5. Coat the rubber gasket on the new filter with clean engine oil.
6. Screw in the oil filter until a slight resistance is felt, then tighten additionally more than 2/3 turn.

#### **Oil filter tightening torque:**

**10.85 to 15.19 ft-lb**

**(14.7 to 20.6 N-m)**

7. Start the engine and check for leakage

around the oil filter. Correct as required.

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

### AUTOMATIC TRANSMISSION FLUID

#### **WARNING:**

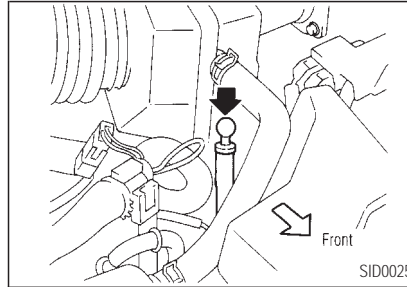
***When engine is running, keep hands and clothing away from any moving parts such as fan drive belt.***

- ***Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.***

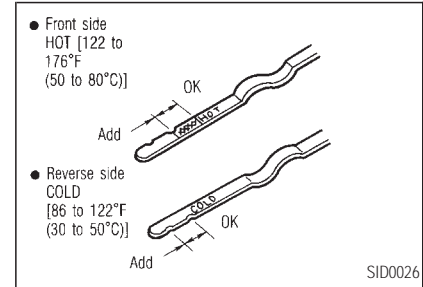
## DO-IT-YOURSELF

### TEMPERATURE CONDITIONS FOR CHECKING

- The fluid level should be checked using the "HOT" range on the dipstick after the following conditions have been met:
  - The engine should be warmed up to operating temperature.
  - The vehicle should be driven at least 5 minutes.
  - The automatic transmission fluid should be warmed to between 122 and 176°F (50 and 80°C).
- The fluid can be checked at fluid temperatures of 86 to 122°F (30 to 50°C) using the "COLD" range on the dipstick after the engine is warmed up and before driving. However, the fluid should be re-checked 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. Move the shift lever to "P" after you have moved it through all ranges.



3. Check the fluid level with the engine idling.
4. Remove the dipstick and 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 range, add fluid to the charging pipe.

**DO NOT OVERFILL.**

**Use Nissan Matic "D" (Continental**

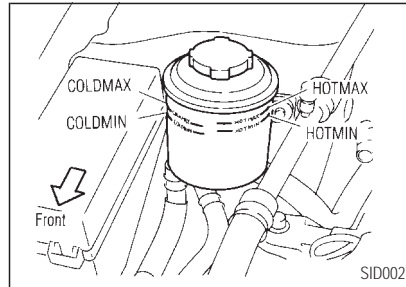
## DO-IT-YOURSELF

U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada).

### 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, the accurate fluid level cannot be read. You should wait until the fluid has cooled down (about 30 minutes).

### POWER STEERING FLUID



Check the fluid level in the reservoir tank.

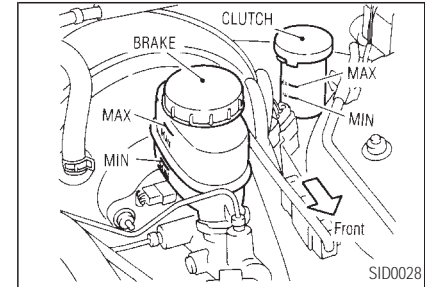
The fluid level should be checked using the "HOT" range at fluid temperatures of 122 to 176°F (50 to 80°C) or using the "COLD" range at fluid temperatures of 32 to 86°F (0 to 30°C).

### CAUTION:

- *Do not overfill.*

- *The recommended fluid is Type DEXRON™II or equivalent.*

### BRAKE AND CLUTCH 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 thoroughly checked by your INFINITI dealer.

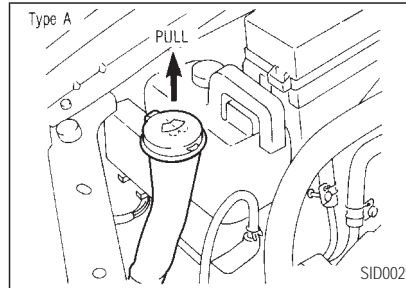
## DO-IT-YOURSELF

### CAUTION:

- Use only new fluid. Old, inferior, or contaminated fluid may damage the brake and clutch systems. The use of improper fluids can damage the brake system and affect the vehicle's stopping ability.
- Do not spill the fluid on painted surfaces. This will damage the paint. If fluid is spilled, wash with water.

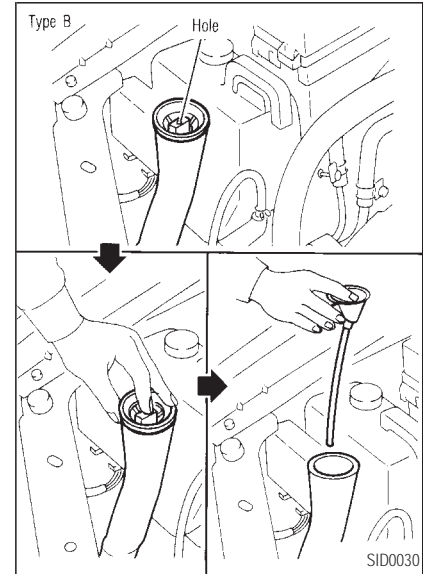
### WINDOW WASHER FLUID

#### 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.

#### Type B



To check the fluid level, use your finger to plug the center hole of the cap/tube assembly

## DO-IT-YOURSELF

(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.

### CAUTION:

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

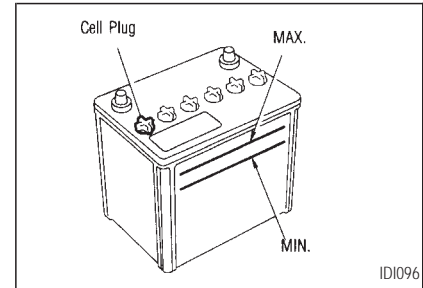
## BATTERY

- 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.*



Check the fluid level in each cell. 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.**

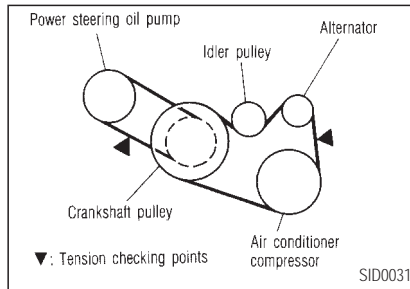
1. Remove the cell plugs.
2. Add distilled water up to the MAX. level.
3. Tighten cell plugs.

## DO-IT-YOURSELF

### 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



#### WARNING:

*Be sure the ignition key is "OFF".*

1. Visually inspect each belt for signs of unusual wear, cuts, fraying, oil adhesion 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.*

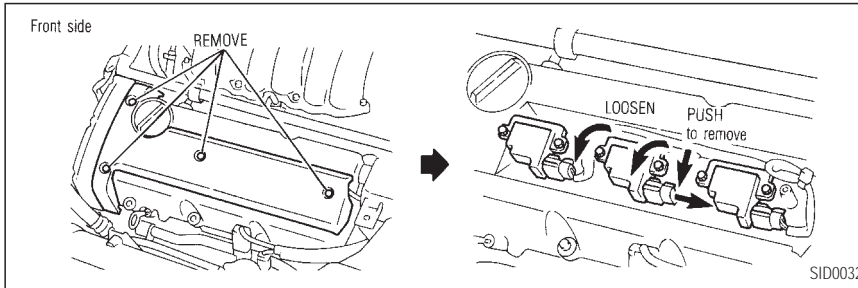
#### CAUTION:

*Be sure to use the correct wrench to remove the plugs. An incorrect*

*wrench can cause damage.*



## DO-IT-YOURSELF



1. Remove the rocker cover ornament using a suitable hexagon wrench. (Front side)
2. Disconnect the electrical connectors.
3. Loosen the ignition coil fixing bolts. And remove the ignition coil to give access to the spark plugs.
4. Remove the spark plugs with a spark plug wrench.

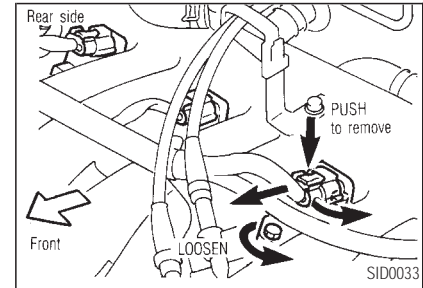
The plug wrench has a rubber seal that holds the spark plug so that it will not fall when it is pulled out. Make sure that each

spark plug is snugly fitted into the plug wrench.

5. Fit the new plugs, one at a time, into the spark plug wrench and install them. Turn each plug in several full turns by hand, then tighten with a spark plug wrench to the correct torque. Do not overtighten.

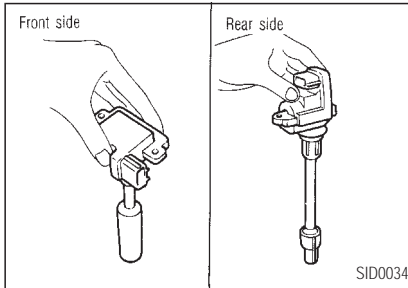
### Spark plug tightening torque:

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

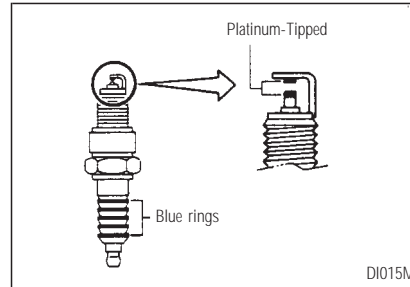


6. Holding the ignition coil, re-connect each ignition coil to its proper spark plug by pushing it on until you feel a snap.
7. Tighten all ignition coils.

## DO-IT-YOURSELF



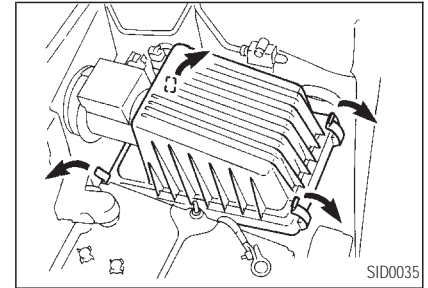
### *Platinum-tipped spark plug*



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

**Always replace with recommended platinum-tipped spark plugs.**

### AIR CLEANER FILTER



#### *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.

#### **WARNING:**

***Operating the engine with the air***

## DO-IT-YOURSELF

*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 isn't there, and the engine backfires, you could be burned. Don't drive with it off, and be careful working on the engine with the air cleaner off.*

### WIPER BLADES

#### 1) CLEANING

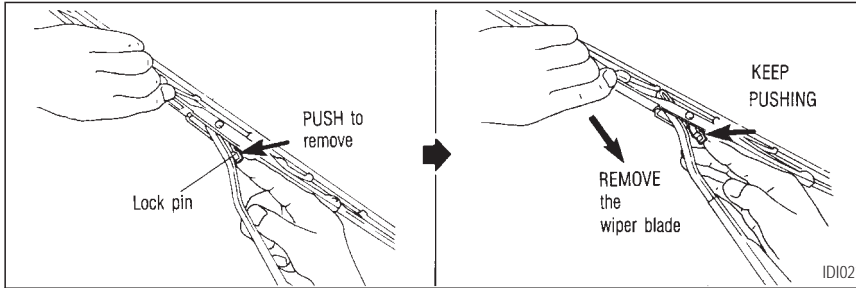
If your windshield is not clear after using the windshield washer or if the wiper blade chatters when running, wax or other material may be on the blade or windshield.

Clean the outside of the windshield with a washer solution or a mild detergent. Your windshield is clean if beads do not form when rinsing with clear water.

Clean the blade by wiping it with a cloth soaked in a washer solution or a mild detergent. Then rinse the blade with clear water. If your windshield is still not clear after cleaning the blades and using the wiper, replace the blades.

## DO-IT-YOURSELF

### 2) REPLACEMENT



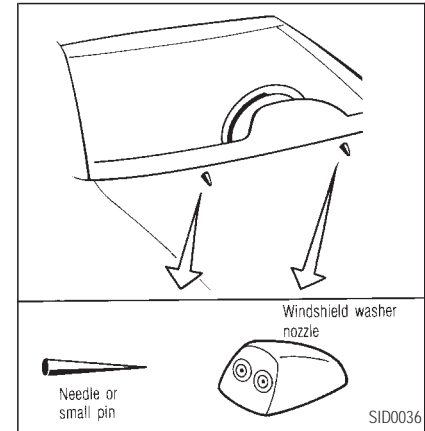
1. Pull the wiper arm.
2. Push the lock pin, then remove the wiper blade.
3. Insert the new wiper blade to the wiper arm until a click sounds.

#### **CAUTION:**

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

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

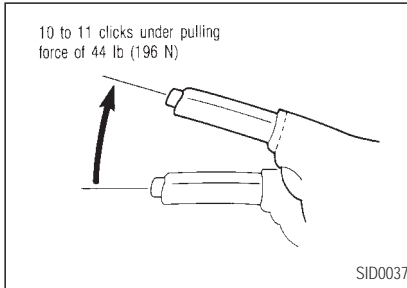
*Make sure the wiper blade contacts the glass, otherwise the arm may be damaged from wind pressure.*



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

## DO-IT-YOURSELF

### PARKING BRAKE



From the released position, pull the parking brake lever up slowly and firmly. If the number of clicks is out of the range listed above, see your INFINITI dealer.

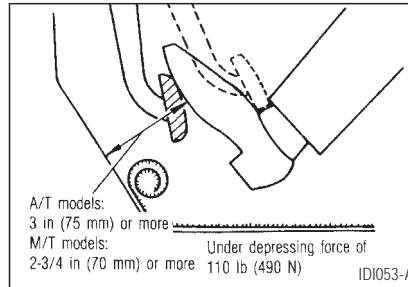
### BRAKE PEDAL

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 disc-type brakes on your vehicle self-adjust every time the brake pedal is applied. If the brake pedal goes down farther than normal, it may be due to a lack of adjustment.



### WARNING:

**See your INFINITI dealer and have it checked if the brake pedal height does not return to normal.**

### BRAKE BOOSTER

Check the brake booster function as follows:

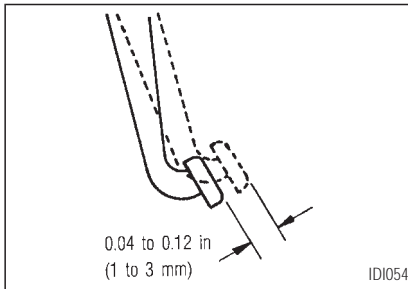
1. With the engine off, press and release the brake pedal several times. When brake pedal movement (distance of travel) remains the same from one pedal application to the next, continue on to the next step.
2. While depressing the brake pedal, start the engine. The pedal height should drop a little.
3. With the brake pedal depressed, stop the engine. Keeping the pedal depressed for about 30 seconds, the pedal height should not change.

## DO-IT-YOURSELF

- 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.

### CLUTCH PEDAL

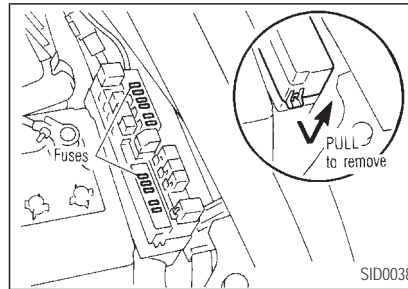


Press the pedal by hand and be sure the free travel is within the limits shown above. If free

travel is too little or too much, see your INFINITI dealer.

### FUSES

#### *Engine compartment*



If the electrical equipment does not come on, check for a burned-out fuse.

- Be sure the ignition key and headlight switch are "OFF".
- Open the engine hood.
- Remove the fusible link cover.

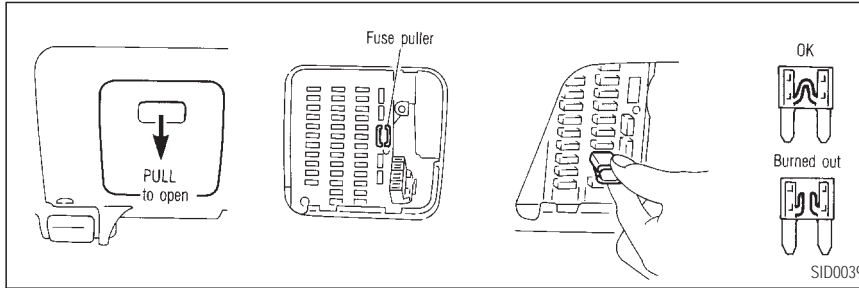
- Remove the fuse with the fuse puller.
- If the fuse is burned out, replace it with a new fuse.

**Never use a fuse of higher amperage rating than that specified on the fuse box cover.**

- If a new fuse burns out again, have the electrical system checked and repaired by your INFINITI dealer.

## DO-IT-YOURSELF

### Passenger compartment



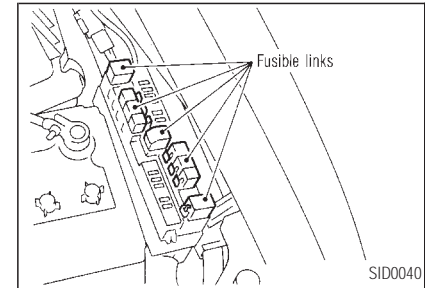
If the electrical equipment does not operate, check for a burned-out fuse.

1. Be sure the ignition key and headlight switch are "OFF".
2. Open the fuse box lid.
3. Remove the fuse with the fuse puller.
4. If the fuse is burned, replace it with a new fuse.

**Never use a fuse of higher amperage rating than that specified on the fuse box cover.**

5. If a new fuse burns again, have the electrical system checked and repaired by your INFINITI dealer.

### FUSIBLE LINKS



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

### 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

## DO-IT-YOURSELF

engine compartment without removing the headlight assembly.

### CAUTION:

*High pressure halogen gas is sealed inside the halogen bulb. The bulb may break if the glass envelope is scratched or the bulb is dropped.*

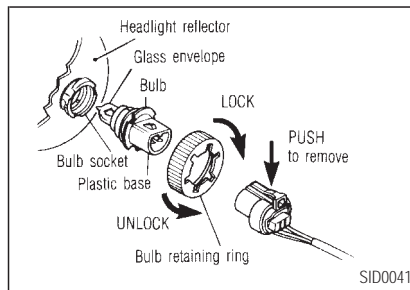
*Hold the plastic base when handling the bulb. Never touch the glass envelope.*

### 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.

### 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.

### 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.

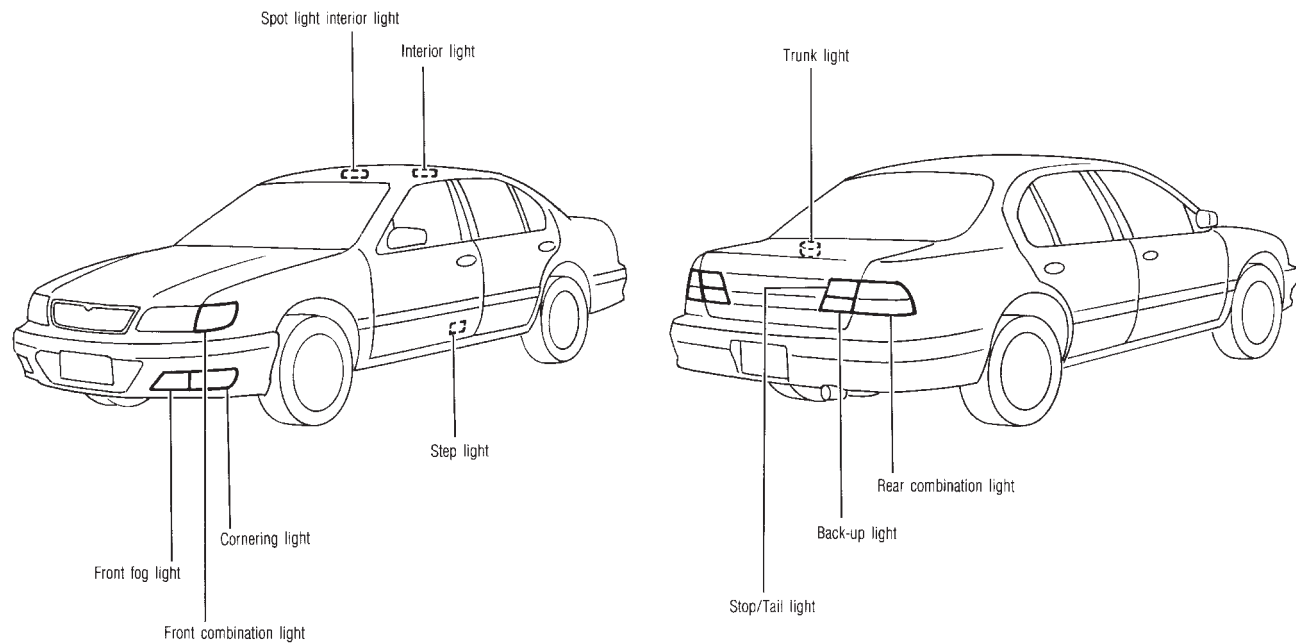


## DO-IT-YOURSELF

### *OTHER LIGHTS*

Item	Wattage (W)	Bulb No.
Cornering light	27	1156
Front turn signal/Clearance light	27/8	1157
Front side marker light	3.8	194
Front fog light	55	
Rear combination light		
Turn signal	27	1156
Stop/Tail	27/8	1157
Back-up	27	1156
License plate light	5	
High-mounted stop light	27	1156
Interior light	10	
Front personal light	10	
Step light	2.7	161
Trunk light	3.4	158

## DO-IT-YOURSELF

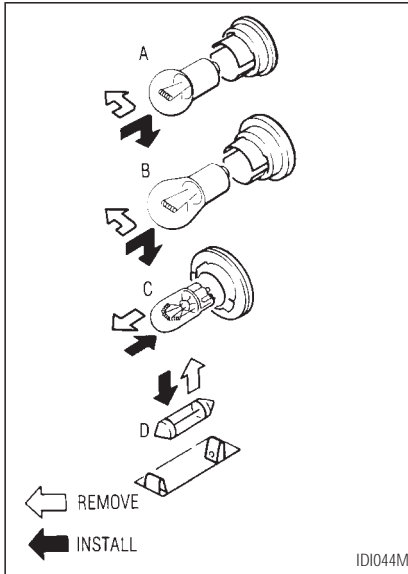


SID0042

## DO-IT-YOURSELF

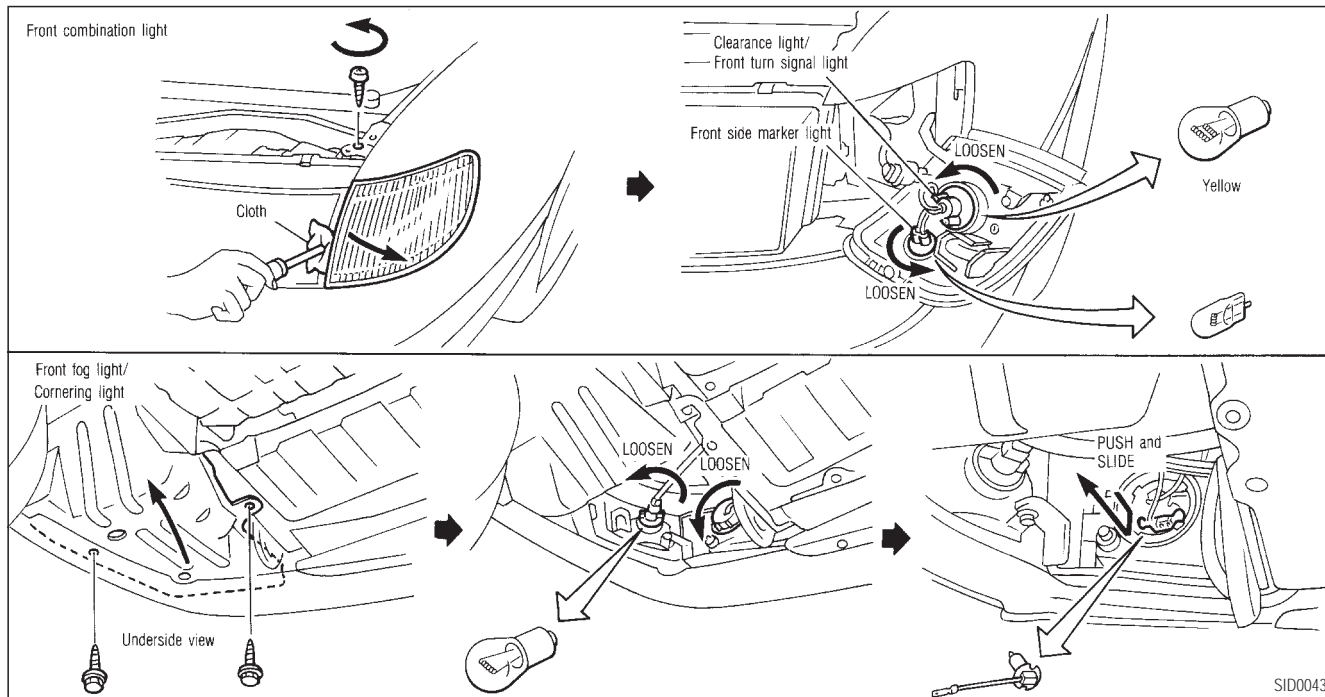
### *Replacement procedures*

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

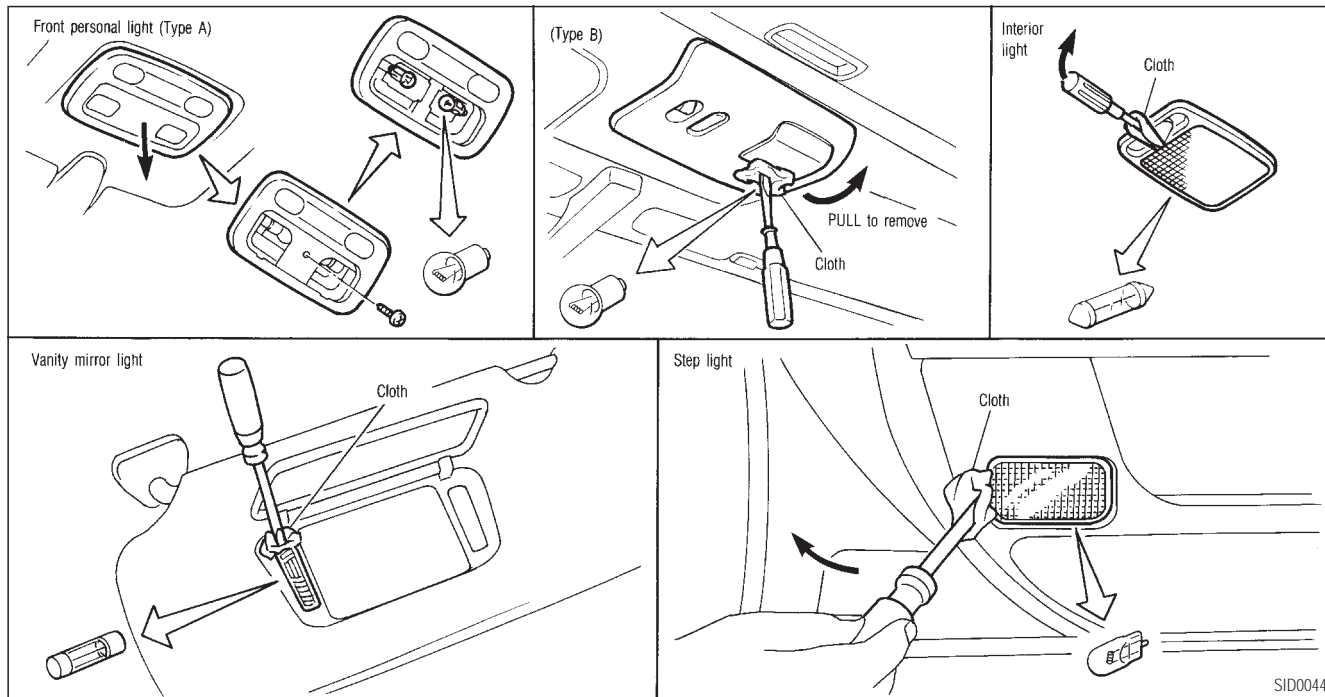


All other lights are either type A, B, C or D.

## DO-IT-YOURSELF

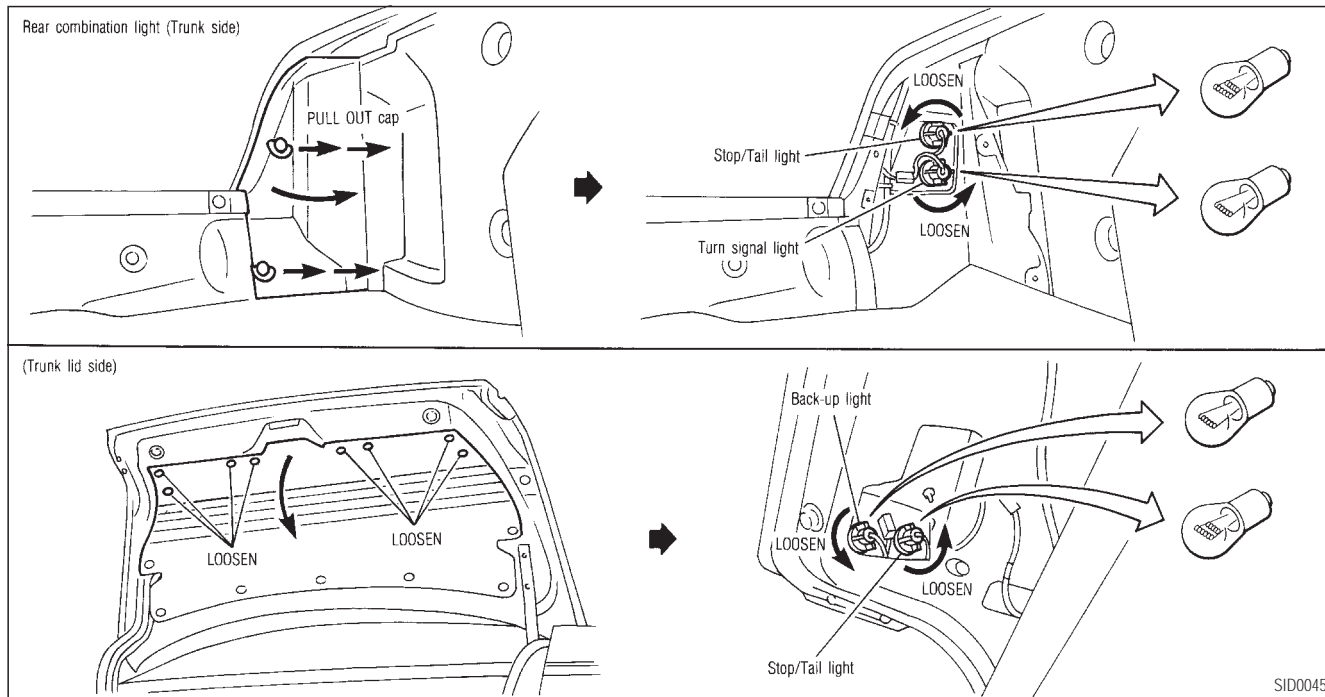


## DO-IT-YOURSELF



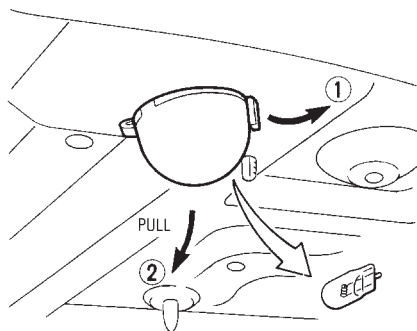
SID0044

## DO-IT-YOURSELF

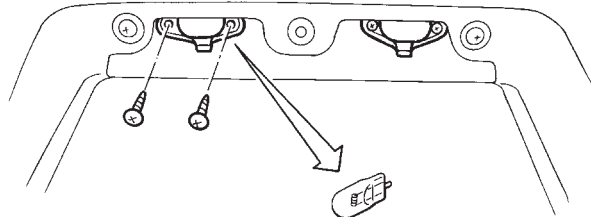


## DO-IT-YOURSELF

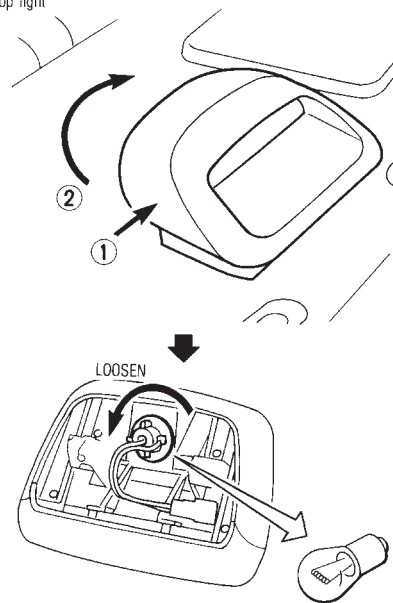
Trunk light



License plate light



High-mounted stop light



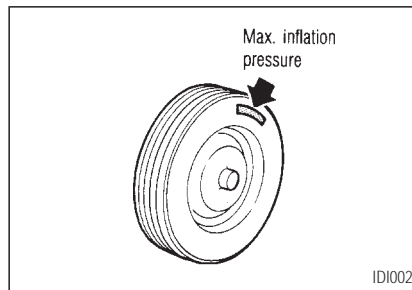
SID0046

## 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

pressure should be checked when 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.

#### **CAUTION:**

*The vehicle capacity weight 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.*

#### *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*



## DO-IT-YOURSELF

***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.

### Summer tires

INFINITI specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance in snow and ice will be substantially reduced. Summer

tires do not have the tire traction rating "M&S" on the tire sidewall.

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

### Snow tires

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

Generally, snow tires will have lower speed ratings than factory equipped tires and may not match the potential maximum vehicle speed. Never exceed the maximum speed rating of the tire.

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.

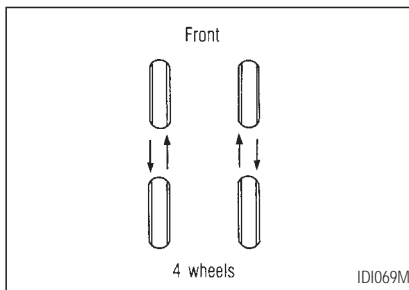
### Tire chains

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are of proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. Use 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 undercarriage. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Never install tire chains on a T-type spare tire.

## DO-IT-YOURSELF

### *Tire rotation*



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

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

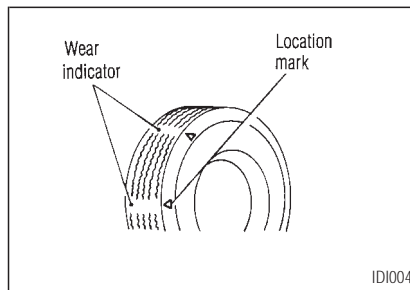
#### **CAUTION:**

- ***After rotating the tires, adjust the tire pressure.***
- ***Retighten the wheel nuts after the aluminum wheels have been run***

*for the first 600 miles (1,000 km) (also in cases of a flat tire, etc.).*

- ***Do not include the T-type spare tire or any other small size spare tire in the tire rotation.***

### *Tire wear and damage*



#### **CAUTION:**

***Tires should be periodically inspected***

*for wear, cracking, bulging, or objects caught in the tread. If excessive wear, cracks, bulging, or deep cuts are found, the tire should be replaced.*

*The original tires have a built-in tread wear indicator. When the wear indicator is visible, the tire should be replaced.*

*Improper service for a T-type spare tire may result in serious personal injury. If it is necessary to repair the T-type spare tire, contact your INFINITI dealer.*

### *Changing tires and wheels*

When replacing a tire, use the same size, speed rating and load carrying capacity as originally equipped. Recommended types and sizes are shown in "Wheels and tires" in the "Technical and consumer information" sec-

## DO-IT-YOURSELF

tion. The use of tires other than those recommended or the mixed use of tires of different brands, construction (bias, bias-belted or radial), or tread patterns can adversely affect the ride, braking, handling, ground clearance, body-to-tire clearance, snow chain clearance, speedometer calibration, headlight aim and bumper height. **Some of these effects may lead to accidents and could result in serious personal injury.**

If the wheels are changed for any reason, always replace with wheels which have the same offset 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 pad/shoe wear.

### **WARNING:**

***Do not install a deformed wheel or tire***

***even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.***

### ***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 front 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.

### ***Spare tire (T-type spare tire)***

Observe the following precautions if the T-type spare tire must be used, otherwise your vehicle could be damaged or involved in an accident.

### **CAUTION:**

- ***The T-type spare tire should be used only for emergency. It should be replaced by the standard tire at the first opportunity.***

## DO-IT-YOURSELF

- *Drive carefully while the T-type spare tire is installed.*

*Avoid sharp turns and abrupt braking while driving.*

- *Periodically check tire inflation pressure, and always keep it at 60 psi (420 kPa, 4.2 bar).*
- *Do not drive your vehicle at speeds faster than 50 MPH (80 km/h).*
- *Do not use tire chains on a T-type spare tire. Tire chains will not fit properly on the T-type spare tire and may cause damage to the vehicle.*
- *When driving on roads covered with snow or ice, the T-type spare tire should be used on the rear wheel and the original tire used on*

*the front wheels (drive wheels). Use tire chains only on the front two original tires.*

- *Tire tread of the T-type spare tire will wear at a faster rate than the original tire. Replace the T-type spare tire as soon as the tread wear indicators appear.*
- *Because the T-type spare tire is smaller than the original tire, ground clearance is reduced. To avoid damage to the vehicle do not drive over obstacles. Also do not drive the vehicle through an automatic car wash since it may get caught.*
- *Do not use the T-type spare tire on other vehicles.*

- *Do not use more than one T-type spare tire at the same time.*
- *Do not tow a trailer while the T-type spare tire is installed.*



## 8 MAINTENANCE

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## 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 tuned 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 training

programs. They are completely qualified to work on INFINITI's vehicles **before** they work on your vehicle, rather than after they have worked on it.

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.

# MAINTENANCE

## 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.

**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 7,500 miles (12,000 km).

**Wheel alignment and balance** If the vehicle pulls to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment.

If the steering wheel or seat vibrates at normal

highway speeds, wheel balancing may be needed.

**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 smoothly as well as the trunk lid or back hatch. Also make sure that all latches lock securely. Lubricate if necessary. Make sure that the secondary latch keeps the hood from opening when the primary latch is released.

When driving in areas using road salt or other corrosive materials, check lubrication frequently.



# MAINTENANCE

## 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 good quantity when operating the heater or air conditioner.

**Steering wheel** Check that it has the speci-

fied play. Be sure to check for changes in the steering conditions, such as excessive play, hard steering or strange noises.

**Seats** Check seat position controls such as seat adjusters, seatback recliner, etc. to make sure 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.

**Clutch pedal\*** Make sure the pedal operates

smoothly and check that it has the proper free play.

**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 floor mats away from the pedal.

**Parking brake\*** Check that the lever has the proper travel and make sure that the vehicle is held securely on a fairly steep hill when only the parking brake is applied.

**Automatic transaxle “Park position” mechanism** On a fairly steep hill check that the vehicle is held securely with the selector lever in the “P” position without applying any brakes.

## MAINTENANCE

### *UNDER THE HOOD AND VE- HICLE*

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 and clutch fluid levels\*** Make sure that the brake and clutch fluid levels are 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 on the dipstick after parking the vehicle on a level spot and turning off the engine.

**Power steering fluid level\* and lines** Check the level in the reservoir tank with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

**Automatic transaxle fluid level\*** Check the level on the dipstick 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 interior 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.

# MAINTENANCE

## 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 the periodic maintenance at the same mileage/time intervals.**

### *SCHEDULE 1*

Follow Periodic Maintenance Schedule 1 if your driving habits frequently include one or more of the following driving conditions:

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

### *SCHEDULE 2*

Follow Periodic Maintenance Schedule 2 if none of the driving conditions shown in

Schedule 1 apply to your driving habits.

# MAINTENANCE

## SCHEDULE 1

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

[ ]: At the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL																
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60	
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)	
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	

## Emission control system maintenance

Drive belts	See NOTE (1)																	I*
Air cleaner filter	See NOTE (2)									[R]								[R]
Vapor lines										I*								I*
Fuel lines										I*								I*
Fuel filter	See NOTE (3)*																	
Engine coolant	See NOTE (4)																	R*
Engine oil		R	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	R
Spark plugs (Use PLATINUM-TIPPED type)																		[R]
Intake & exhaust valve clearance	See NOTE (5)																	

- NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.  
 (2) If operating mainly in dusty conditions, more frequent maintenance may be required.  
 (3) 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.  
 (4) After 60,000 miles (96,000 km) or 48 months, replace every 30,000 miles (48,000 km) or 24 months.  
 (5) If valve noise increases, inspect valve clearance.  
 (6) 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

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

MAINTENANCE OPERATION		MAINTENANCE INTERVAL															
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	3.75	7.5	11.25	15	18.75	22.5	26.25	30	33.75	37.5	41.25	45	48.75	52.5	56.25	60
	(km x 1,000)	(6)	(12)	(18)	(24)	(30)	(36)	(42)	(48)	(54)	(60)	(66)	(72)	(78)	(84)	(90)	(96)
	Months	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48

## Chassis and body maintenance

Brake lines & cables					I				I				I				I
Brake pads, discs, drums & linings				I		I		I		I		I		I		I	I
Manual & automatic transaxle oil	See NOTE (1).				I				I				I				I
Steering gear & linkage, axle & suspension parts				I		I		I		I		I		I		I	I
Steering linkage ball joints & front suspension ball joints				I		I		I		I		I		I		I	I
Exhaust system				I		I		I		I		I		I		I	I
Front drive shaft boots				I		I		I		I		I		I		I	I
Air bag system	See NOTE (2).																

**NOTE: (1)** If towing a trailer, using a camper or a car-top carrier, or driving on rough or muddy roads, change (not just inspect) oil at every 30,000 miles (48,000 km) or 24 months.

**(2)** Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS certification label.

# MAINTENANCE

## SCHEDULE 2

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

[ ]: At the mileage intervals only

MAINTENANCE OPERATION		MAINTENANCE INTERVAL							
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48

### Emission control system maintenance

Drive belts	See NOTE (1)								I*
Air cleaner filter					[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
Engine oil filter (Use part No. 15208-31U00 or equivalent)		R	R	R	R	R	R	R	R
Spark plugs (Use PLATINUM-TIPPED type)									[R]
Intake & exhaust valve clearance	See NOTE (4)								

NOTE: (1) After 60,000 miles (96,000 km) or 48 months, inspect every 15,000 miles (24,000 km) or 12 months.

(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.

(4) If valve noise increases, inspect valve clearance.

(5) 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

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

MAINTENANCE OPERATION				MAINTENANCE INTERVAL					
Perform at number of miles, kilometers or months, whichever comes first.	Miles x 1,000	7.5	15	22.5	30	37.5	45	52.5	60
	(km x 1,000)	(12)	(24)	(36)	(48)	(60)	(72)	(84)	(96)
	Months	6	12	18	24	30	36	42	48

## Chassis and body maintenance

Brake lines & cables		I		I		I		I
Brake pads, discs, drums & linings		I		I		I		I
Manual & automatic transaxle oil		I		I		I		I
Steering gear linkage, axle & suspension parts						I		I
Exhaust system						I		I
Front drive shaft boots			I		I		I	I
Air bag system	See NOTE (1).							

**NOTE: (1)** Inspect the air bag system 10 years after the date of manufacture noted on the FMVSS 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.

**Intake & exhaust valve clearance check and adjust the valve clearance.**

#### ***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, drums & linings** 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.

**Manual & automatic transaxle gear oil\*** Check the oil level and 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, and drive shaft boots** Check for damage, looseness and leakage of oil or grease. Under severe driving conditions, more frequent inspection should be performed.



## MAINTENANCE

**Steering linkage ball joints & front suspension ball joints** Check the ball joints for damage, looseness and grease leakage.

**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.

**Air bag system** Check the air bag system components for proper attachment, damage, deformities, cracks rust, etc. Work around and on the 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 a “control unit”, which is a small, on-board computer. The control unit 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.

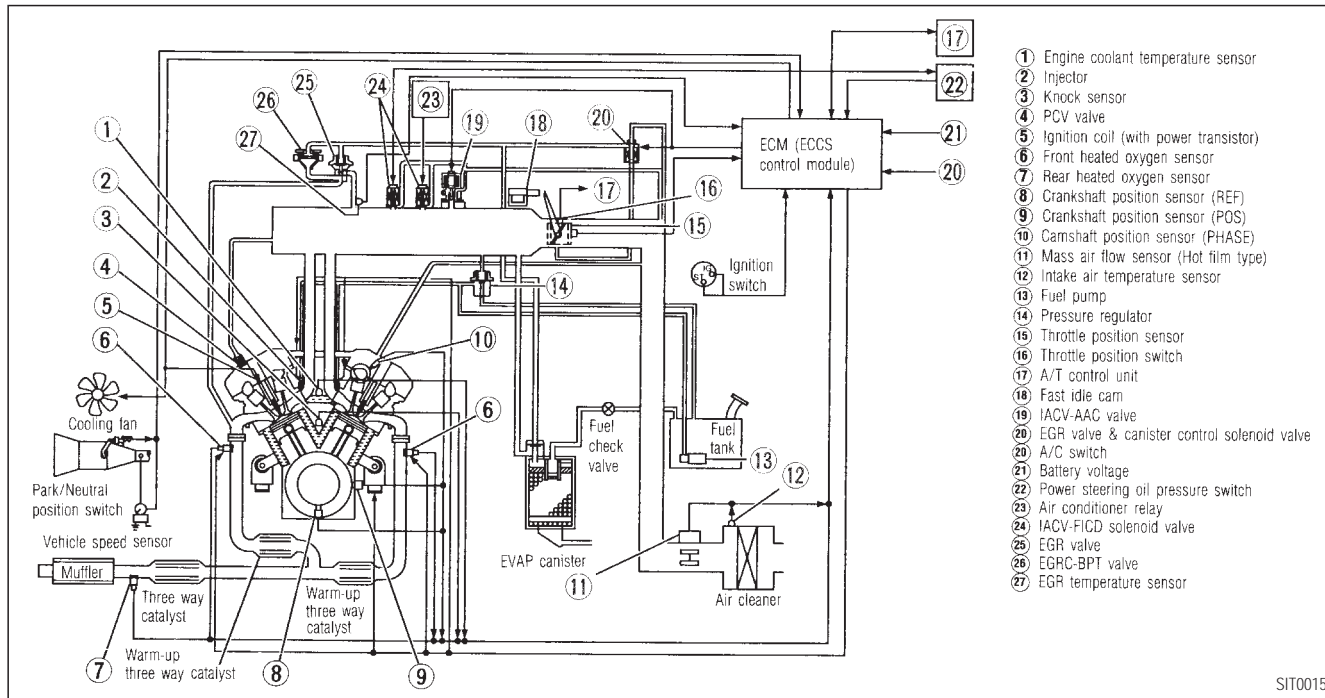
### **ENGINE AND DRIVE TRAIN**

#### ***INFINITI VQ30DE 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.

# TECHNICAL AND CONSUMER INFORMATION



SIT0015

## 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 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”.

## TECHNICAL AND CONSUMER INFORMATION

### ***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/cm<sup>2</sup>, 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.

## TECHNICAL AND CONSUMER INFORMATION

### ***192IDLE 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

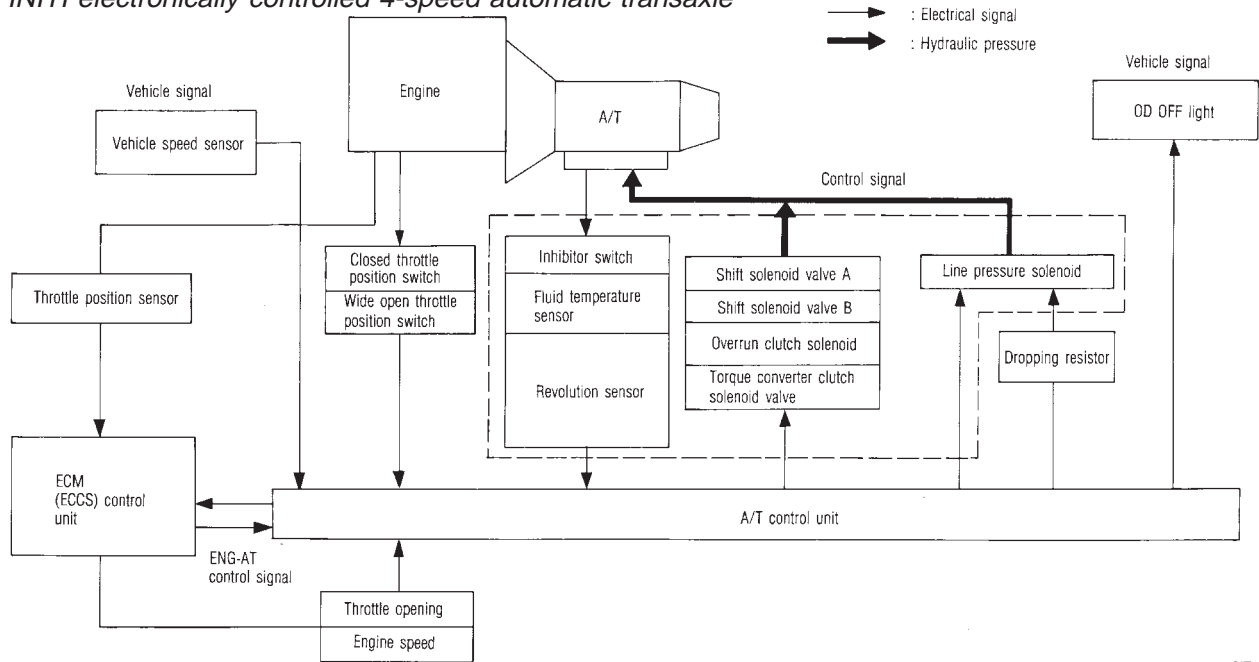
with the correct pulse duration, so the mixture is always correct.

### ***ON-BOARD DIAGNOSTIC SYSTEM***

The ECM (engine control module) has an on-board diagnostic system function, which monitors all of the ECCS circuits and components for problems. If the control unit 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.

# TECHNICAL AND CONSUMER INFORMATION

## INFINITI electronically controlled 4-speed automatic transaxle



SIT0019



## TECHNICAL AND CONSUMER INFORMATION

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:

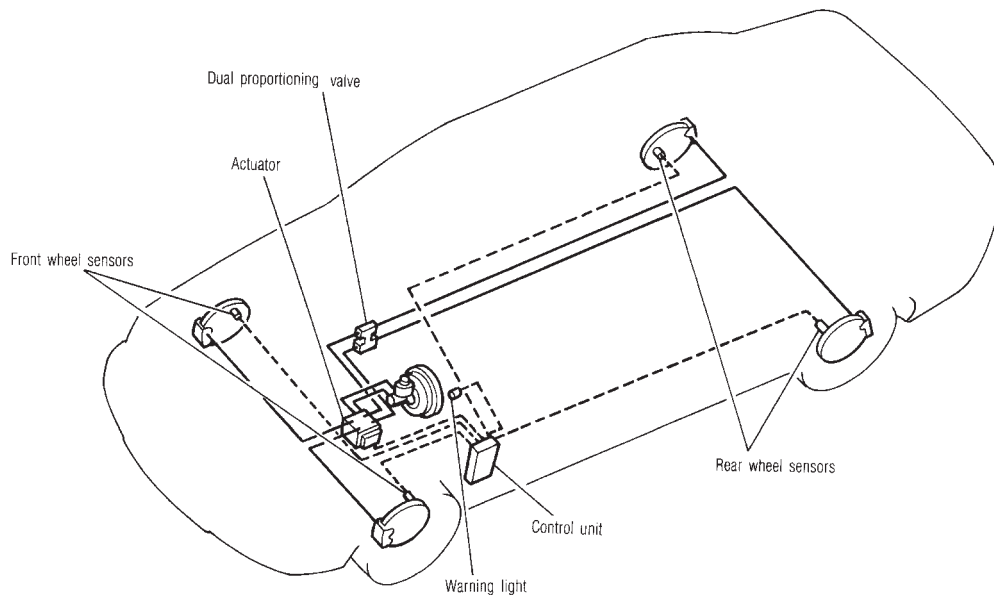
1. Shift timing.
2. Lock-up timing.
3. Engine brake operation timing.

### ***Self Diagnosis***

Any electrical malfunction in the system will be sensed by the automatic transmission control unit, which stores the information in memory.

## TECHNICAL AND CONSUMER INFORMATION

### *INFINITI Anti-Lock Braking System (ABS)*



SIT0017

## TECHNICAL AND CONSUMER INFORMATION

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

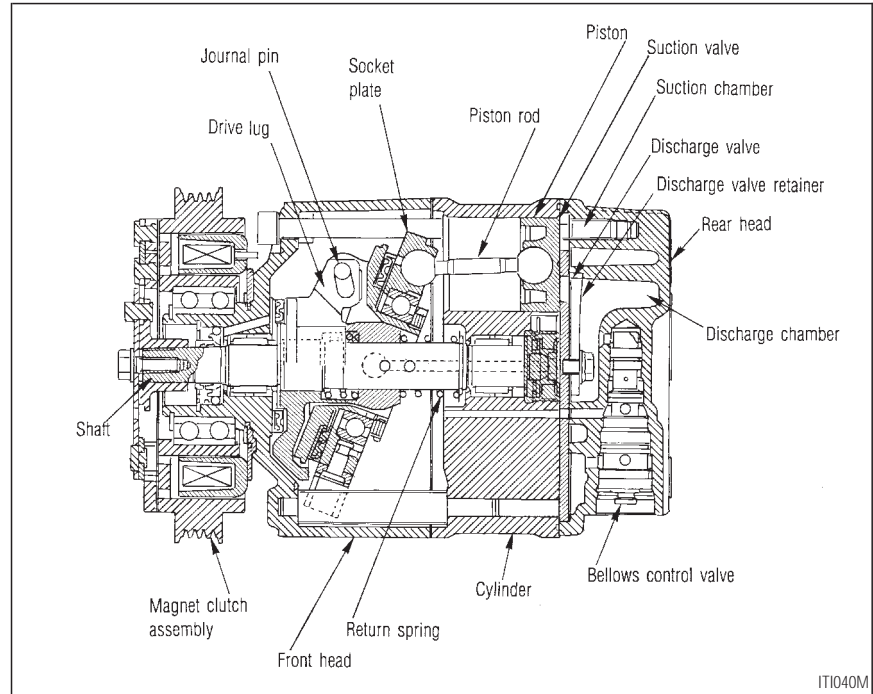
de-activate the anti-lock function by cutting electrical power to the ABS actuator. The braking system will then work as usual, without the anti-lock function.

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 control unit or "auto amplifier," and actuators to provide the most comfortable temperature, humidity and air flow inside the vehicle. For quieter, smoother and more economical operation, the system uses a variable displacement compressor, which eliminates the need for compressor on-off cycling.

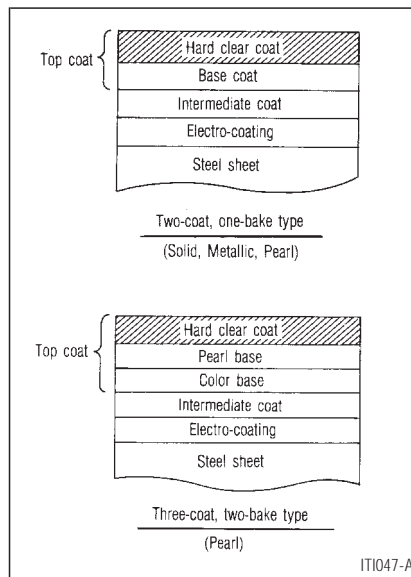


## TECHNICAL AND CONSUMER INFORMATION

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.

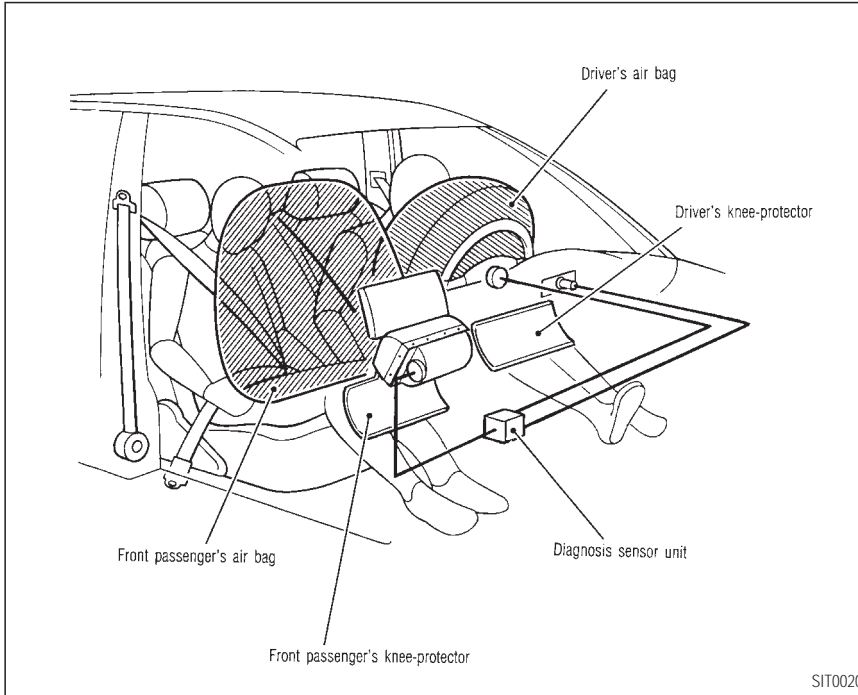
### *Hard clear coat (New cross linking clear coat for dark body color)*



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 refinish gloss retention.

## TECHNICAL AND CONSUMER INFORMATION



### *AIR BAG SYSTEM*

Air bags are designed to inflate in higher severity frontal collisions. When the air bag system receives a signal from the diagnosis sensor unit, the air bags inside the air bag module fill with gas, inflating instantly. This, in conjunction with the seat belts, helps to cushion the impact force to the occupants' face and chest.

An air bag system is provided on the front passenger side in addition to the driver side.

## TECHNICAL AND CONSUMER INFORMATION

### 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 Fuel/Lubricants
	US measure	Imp measure	Liter	
Fuel	18-1/2 gal	15-3/8 gal	70	Unleaded gasoline with an octane rating of at least 91 AKI (RON 96)
Engine oil (Refill)				
With oil filter	4-1/4 qt	3-1/2 qt	4.0	<ul style="list-style-type: none"> <li>• API SG or SH and Energy Conserving II*1, *2</li> <li>• API Certification Mark*1, *2</li> </ul>
Without oil filter	3-7/8 qt	3-1/4 qt	3.7	
Cooling system				
With reservoir	9 qt	7-1/2 qt	8.5	Anti-freeze coolant (Ethylene glycol base)
Reservoir	7/8 qt	3/4 qt	0.8	
Manual transmission gear oil	—	—	—	API GL-4*2
Automatic transmission fluid	Refill to the proper oil level according to the instructions in the "Do-it-yourself operations" section.			Nissan Matic "D" (Continental U.S. and Alaska) or Genuine Nissan Automatic Transmission Fluid (Canada).*4
Power steering fluid				Type DEXRON™II or equivalent
Brake and clutch fluid				Genuine Nissan Brake Fluid or equivalent*4 DOT 3 (US FMVSS No. 116)
Multi-purpose grease	—	—	—	NLGI No. 2 (Lithium soap base)
Air conditioning system refrigerant	—	—	—	HFC-134a (R-134a)
Air conditioning system lubricants	—	—	—	INFINITI A/C System Oil Type S or exact equivalent

\*1: For further details, see "Engine oil and oil filter recommendation".

\*2: For further details, see "RECOMMENDED SAE VISCOSITY NUMBER".

\*3: For more information regarding suitable fluids, contact an INFINITI dealer.

\*4: 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.

### FUEL RECOMMENDATION

Unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96)

If unleaded premium gasoline is not available, unleaded regular gasoline with an octane rating of at least 87 AKI (Research octane number 91) can be used.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

### CAUTION:

*Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage.*

## TECHNICAL AND CONSUMER INFORMATION

***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 oxygenate content and the fuel compatibility for your INFINITI cannot be readily determined. If in doubt, ask your Service Station Manager.

If you use oxygenate-blend gasoline, please take the following precautions as the usage of such fuels may cause vehicle performance problems and/or fuel system damage.

- The fuel should be unleaded and have an octane rating no lower than that recommended for unleaded gasoline.
- If an oxygenate-blend, excepting a methanol blend, is used, it should contain no more than 10% oxygenate. (MTBE may, however, be added up to 15%.)
- If a methanol blend is used, it should contain no more than 5% methanol (methyl alcohol, wood alcohol). It should also contain a suitable amount of appropriate cosolvents and corrosion inhibitors. If not properly formulated with appropriate cosolvents and corrosion inhibitors, such methanol blends may cause

**fuel system damage and/or vehicle performance problems. At this time, sufficient data is not available to ensure that all methanol blends are suitable for use in INFINITI vehicles.**

If any undesirable driveability problems such as engine stalling 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



## TECHNICAL AND CONSUMER INFORMATION

ingredients that can be harmful to the fuel system and engine.

### Octane rating tips

In most parts of North America, you should use unleaded gasoline with an octane rating of at least 87 or 91 AKI (Anti-Knock Index) number. However, you may use unleaded gasoline with an octane rating as low as 85 AKI (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.

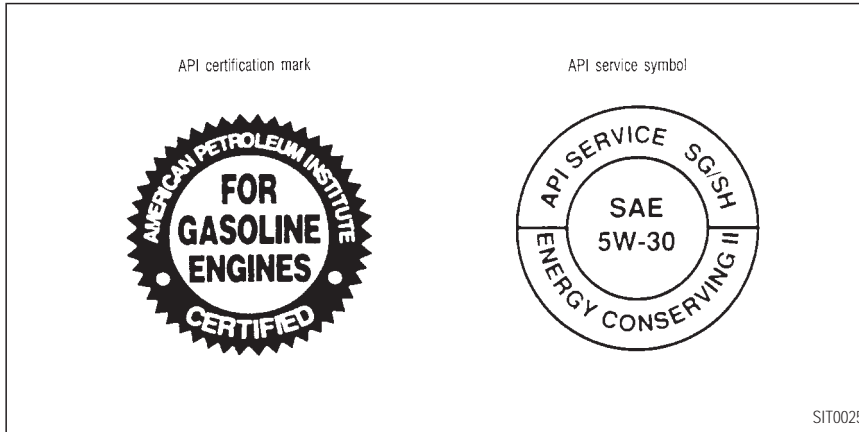
**Using unleaded gasoline with an octane rating lower than stated above can cause persistent, heavy "spark knock". ("Spark knock" is a metallic rapping noise.) If severe, this can lead to engine damage. If you detect a persistent**

**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. INFINITI recommends the use of a low friction oil (energy conserving

oil) in order to improve fuel economy and conserve energy. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Only those engine oils with the American Petroleum Institute (API) CERTIFICATION MARK on the front of the container should be

used. This type of oil supersedes the existing API SG 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

## TECHNICAL AND CONSUMER INFORMATION

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 INFINITI 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.

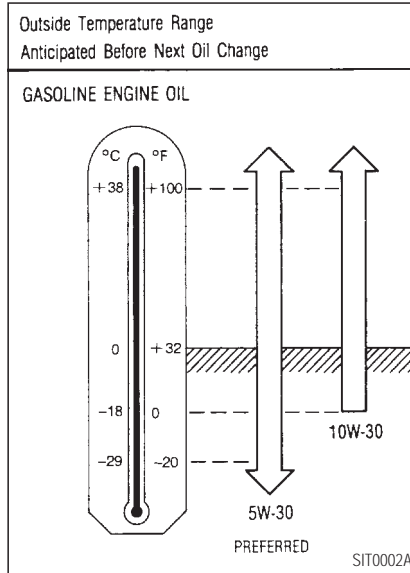
Your engine was filled with a high quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle. Operation under the following conditions may require more frequent oil and filter changes.

- repeated short distance driving at cold outside temperatures,
- driving in dusty conditions,

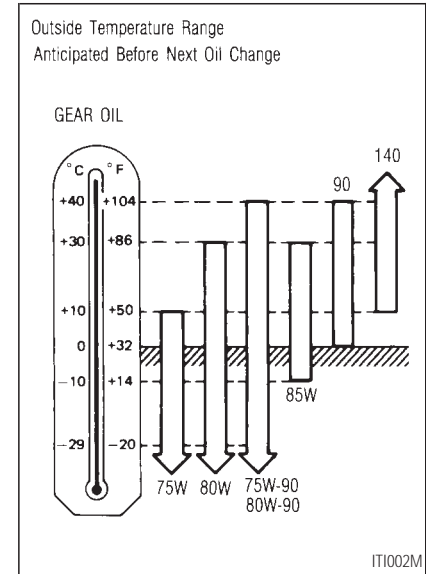
- extensive idling,
- towing a trailer.

## TECHNICAL AND CONSUMER INFORMATION

### 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 is preferable for ambient tem-

## TECHNICAL AND CONSUMER INFORMATION

peratures below 104°F (40°C).

### *Air conditioning system refrigerant and lubricant recommendations*

The air conditioning system in this INFINITI vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, INFINITI 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 new 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.

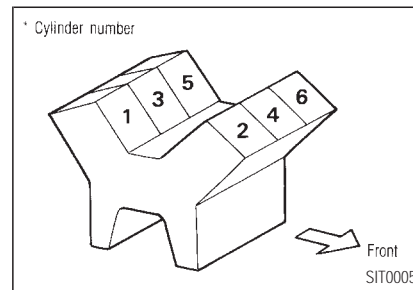
Contact your INFINITI dealer whenever servicing your air conditioning system.

## TECHNICAL AND CONSUMER INFORMATION

### ENGINE

Model		VQ30DE
Type		Gasoline, 4-cycle
Cylinder arrangement		6-cylinder, V-slanted at 60°
Bore x Stroke	in (mm)	3.661 x 2.885 (93.0 x 73.3)
Displacement	cu in (cm <sup>3</sup> )	182.34 (2,988)
Firing order		1-2-3-4-5-6*
Idle speed	rpm	
Ignition timing (B.T.D.C.)	degree/rpm	See the "Emission Control Label" on the underside of the hood.
CO percentage at idle speed	[No air] %	
Spark plug	Standard	PFR5G-11
	Service option	PFR4G-11, PFR6G-11
Spark plug gap	in (mm)	—
Camshaft operation		Timing chain
Alternator belt size		
Width x Length	in (mm)	0.8409 x 43.11 (21.36 x 1,095)

The spark ignition system of this vehicle meets all requirements of the Canadian Interference-Causing Equipment Regulations



## TECHNICAL AND CONSUMER INFORMATION

### WHEELS AND TIRES

Road wheel	Aluminum	15 x 6.5JJ
	Offset            in (mm)	1.77 (45)
Tire size	Conventional	P205/65R15 92H P215/60R15 93H
	Spare	Conventional*1 T125/70D16*2 T125/90D16*2, *3

\*1: For CANADA

\*2: For U.S.A.

\*3: For models with Viscous LSD

### DIMENSIONS AND WEIGHTS

Sedan		
Overall length	in (mm)	189.6 (4,815)
Overall width	in (mm)	69.7 (1,770)
Overall height	in (mm)	55.7 (1,415)
Front tread	in (mm)	59.8 (1,520)
Rear tread	in (mm)	59.1 (1,500)
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)	

## TECHNICAL AND CONSUMER INFORMATION

### WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

**When planning 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/cetane rating may cause engine damage. All gasoline vehicles must be operated with unleaded engine 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.

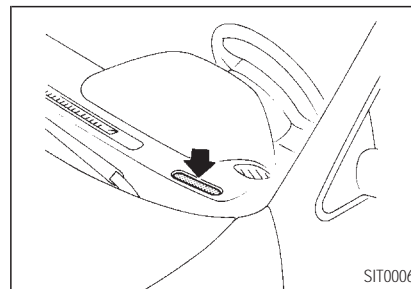
The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or

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*

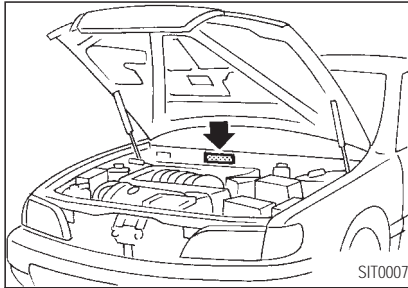


The vehicle identification number plate is attached as shown. This number is the identification for your vehicle and is used in the vehicle registration.



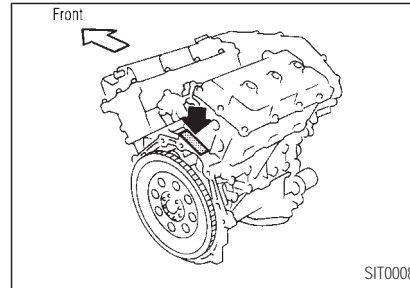
## TECHNICAL AND CONSUMER INFORMATION

### VEHICLE IDENTIFICATION NUMBER (Chassis number)



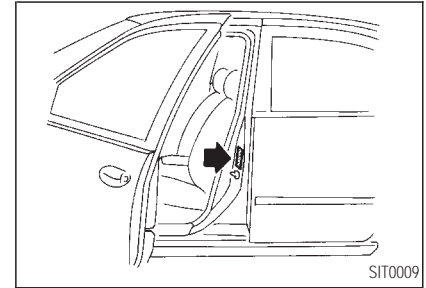
The number is stamped as shown.

### ENGINE SERIAL NUMBER



The number is stamped on the engine as shown.

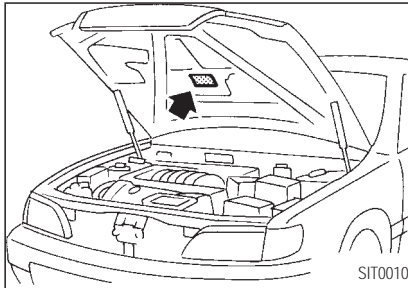
### F.M.V.S.S. CERTIFICATION LABEL



The F.M.V.S.S. certification label is affixed as shown.

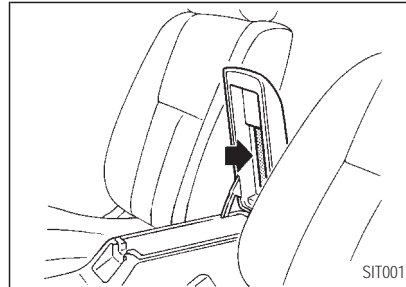
## TECHNICAL AND CONSUMER INFORMATION

### EMISSION CONTROL INFORMATION LABEL



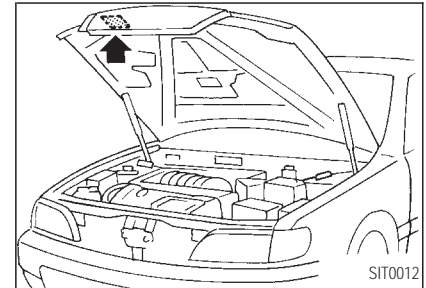
The emission control information label is attached as shown.

### TIRE PLACARD



The cold tire pressure is shown on the tire placard affixed to the center console lid.

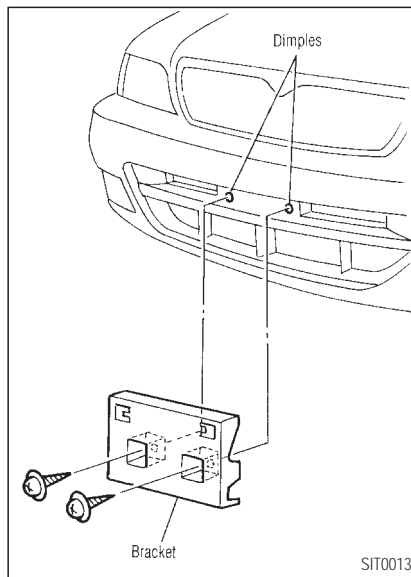
### AIR CONDITIONER SPECIFICATION LABEL



The label is affixed inside of the hood as shown.

## TECHNICAL AND CONSUMER INFORMATION

### INSTALLING LICENSE PLATE



Use the following steps to mount the license plate:

1. Mount the license plate bracket with 0.24 in (6 mm) diameter by 0.63 in (16 mm) long tapping screws.
2. Mount the license plate with the 0.24 in (6 mm) bolts. The bolts used to fasten the license plate to the bracket are not included in the bracket assembly.

### 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.

## TECHNICAL AND CONSUMER INFORMATION

- 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), reweigh your vehicle to determine if either GVWR or GAWR for your vehicle is exceeded. If GVWR is exceeded, remove cargo as necessary. If either the front or rear GAWR is exceeded, shift the load or remove cargo as necessary.

### ***Loading Tips***

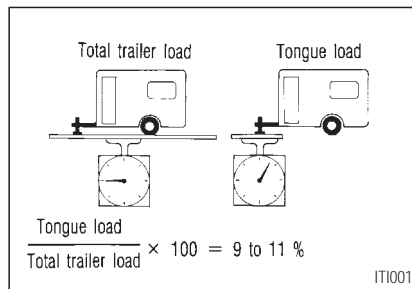
- The GVW must not exceed GVWR or GAWR as specified on the FMVSS Certification Label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

### ***CAUTION***

- ***Properly secure all cargo to help prevent it from sliding or shifting. 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.***

## TECHNICAL AND CONSUMER INFORMATION

### 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 ability and the special equipment required should be obtained from your INFINITI dealer. He can obtain an **INFINITI Trailer Towing Guide** for you.

### Maximum load limits

#### Maximum trailer loads

Never allow the total trailer load to exceed 1,000 lb (454 kg). The total trailer load equals trailer weight plus its cargo weight. Towing loads greater than 1,000 lb (454 kg) or using improper towing equipment could adversely affect vehicle handling, braking and performance.

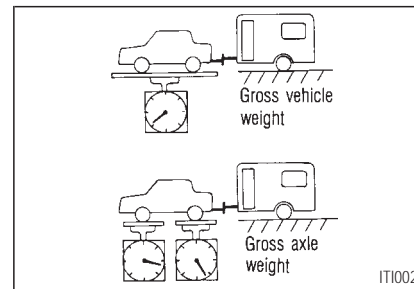
#### WARNING:

**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 or other towing equipment.**

#### Tongue load

Keep the tongue load between 9 and 11% of

the total trailer load. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed 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

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equipment. In addition, front or rear gross axle weight must not exceed the gross axle weight rating (GAWR) shown on the F.M.V.S.S. certification label.

### *Towing load/specification chart* Unit: lb (kg)

MAXIMUM TOWING LOAD	1,000 (454)
MAXIMUM TONGUE LOAD	110 (49)

### *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.

- Axle-mounted hitches should not be used.
- The hitch should not be attached to or

affect the operation of the impact-absorbing bumper

- Do not modify the vehicle exhaust system, brake system, etc. when the hitch is installed.
- To reduce the possibility of additional damage if your vehicle is struck from the rear, remove the hitch when not in use. After the hitch is removed, seal the bolt holes to prevent exhaust fumes, water or dust from entering the passenger compartment.
- Regularly check that all hitch mounting bolts are securely mounted.

### *Tire pressures*

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the tire placard (located on the inside of the center console 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 or light switch.

### *Trailer brakes*

If your trailer is equipped with a braking system, make sure it conforms to Federal

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and/or local regulations and that it is properly installed.

### **CAUTION:**

***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 and/or unloaded trailer is hitched. Do not drive the vehicle if it has an abnormal nose-up or nose-down condition; check for improper tongue load, overload, worn suspension or other possible causes of either condition.
- Always secure items in the trailer to prevent load shifts while driving.
- Be certain your rear view mirrors conform to all federal, state or local regulations. If not, install any mirrors required for towing before driving the vehicle.

### ***Trailer towing tips***

In order to gain skill and an understanding of the vehicle's behavior, you should practice turning, stopping and backing up in an area which is free from traffic. Steering stability, and braking performance will be somewhat different than under normal driving conditions.

- Always secure items in the trailer to prevent load shift while driving.
- Avoid abrupt starts, acceleration or stops.
- Avoid sharp turns or lane changes.
- Always drive your vehicle at a moderate speed.
- Always block the wheels on both vehicle and trailer when parking. Parking on a slope is not recommended; however, if you must do so, and if your vehicle is equipped with automatic transmission, first block the wheels and apply the parking brake, and then move the transmission 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.
- 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).

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- 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 fifth gear (manual transmission) or overdrive (automatic transmission).
- Avoid holding the brake pedal down too long or too frequently. This could cause the brakes to overheat, resulting in reduced braking efficiency.

**When towing a trailer, change oil in the transmission more frequently.**

**See the Maintenance schedule.**

### UNIFORM TIRE QUALITY GRADING

DOT (Department of Transportation) Quality Grades: All passenger car tires must conform

to Federal Safety Requirements in addition to these grades.

#### *Treadwear*

Treadwear grade is a comparative rating based on tire wear rate when tested under controlled conditions on specified government test courses. For example, a tire graded 150 would wear one and a half (1-1/2) times as well on the government course as a tire graded 100. However, relative tire performance depends on actual driving conditions, and may vary significantly from the norm due to variations in driving habits, service practices and differences in road characteristics and climate.

#### *Traction A, B and C*

Traction grades are A (the highest), B and C. They represent a tire's ability to stop on wet pavement as measured under controlled conditions, on specified government test surfaces of asphalt and concrete. A tire marked with a C may have poor traction performance.



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### **WARNING:**

*The traction grade assigned to your vehicle tires is based on straight line braking traction tests and does not include cornering (turning) traction.*

### **Temperature A, B and C**

Temperature grades are A (the highest), B, and C. They represent a tire's resistance to heat build-up, and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause tire material to degenerate, reducing tire life. Excessive temperatures can lead to sudden tire failure. Grade C corresponds to a performance level which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades A and B represent higher levels of performance on laboratory test wheels than the minimum required by law.

### **WARNING:**

*The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, underinflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure problems.*

## **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

### **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:

- Nissan Motor Corporation in U.S.A.  
Consumer Affairs Department  
P.O. Box 191  
Gardena. Ca. 90247
- Nissan Canada Inc.  
P.O. Box 1709,  
Station "B"  
Mississauga, Ontario,  
L4Y 4H6

## **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

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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 other information about motor vehicle safety from the Hotline.

You may notify INFINITI by contacting our Consumer Affairs Department, toll-free, at 1-800-NISSAN-1.

In Hawaii call (808) 531-0231.



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## GAS STATION INFORMATION

### *Recommended fuel:*

Unleaded premium gasoline with an octane rating of at least 91 AKI (Anti-Knock Index) number (Research octane number 96).

If unleaded premium gasoline is not available, unleaded regular gasoline with an octane rating of at least 87 AKI (Research octane number 91) can be used.

However, for maximum vehicle performance, the use of unleaded premium gasoline is recommended.

#### **CAUTION:**

*Using a fuel other than that specified could adversely affect the emission control devices and systems, and could also affect the warranty coverage.*

*Under no circumstances should a leaded gasoline be used, since this will damage the three way catalyst.*

For further details such as gasohol, see "Fuel recommendation" in the "Technical and consumer Information" section.

### *Recommended engine oil:*

- 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 recommendation" in the "Technical and consumer information" section.

### *Tire cold pressure:*

See tire placard affixed to the center console 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 Informa-

tion 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.

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