FOREWORD

READ FIRST—THEN DRIVE SAFELY

The inside pages of this manual contain a minimum of 50% recycled fibers, including 10% post-consumer fibers.



Welcome to the growing family of new NISSAN owners. This vehicle is delivered to you with confidence. It was produced using the latest techniques and strict quality control.

This manual was prepared to help you understand the operation and maintenance of your vehicle so that you may enjoy many miles (kilometers) of driving pleasure. Please read through this manual before operating your vehicle.

A separate Warranty Information Booklet explains details about the warranties covering your vehicle. The "NISSAN Service and Maintenance Guide" explains details about maintaining and servicing your vehicle. Additionally, a separate Customer Care/Lemon Law Booklet (U.S. only) will explain how to resolve any concerns you may have with your vehicle, as well as clarify your rights under your state's lemon law.

Your NISSAN dealership knows your vehicle best. When you require any service or have any questions, they will be glad to assist you with the extensive resources available to them.

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

AWARNING

IMPORTANT SAFETY INFORMATION RE-MINDERS FOR SAFETY!

Follow these important driving rules to help ensure a safe and complete 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. Preteen children should be seated in the rear seat.
- ALWAYS provide information about the proper use of vehicle safety features to all occupants of the vehicle.
- ALWAYS review this owner's manual for important safety information.

MODIFICATION OF YOUR VEHICLE

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

WHEN READING THE MANUAL

The inside pages of this manual contain a minimum of 50% recycled fibers, including 10% post-consumer fibers.

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

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

IMPORTANT INFORMATION ABOUT THIS MANUAL

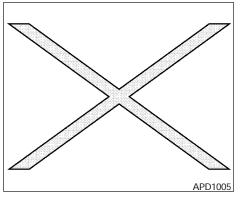
You will see various symbols in this manual. They are used in the following ways:

AWARNING

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

ACAUTION

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



If you see this symbol, it means "Do not do this" or "Do not let this happen."





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









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









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

CALIFORNIA PROPOSITION 65 WARNING

AWARNING

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

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WELCOME TO THE WORLD OF NISSAN



NISSAN TECHNICAL CENTER NORTH AMERICA, INC. in Farmington Hills, Michigan

NISSAN MANUFACTURING FACILITY in Smyrna, Tennessee

WFW0002

Your new NISSAN is the result of our dedication to produce the finest in safe, reliable and economical transportation. Your vehicle is the product of a successful worldwide company that manufactures cars and trucks in over 17 countries and distributes them in 170 nations.

NISSAN vehicles are designed and manufactured by Nissan Motor Co., Ltd. which was founded in Tokyo, Japan in 1933, and NISSAN affiliates worldwide, collectively growing to become the fifth largest automaker in the world. In addition to cars and trucks, NISSAN also makes forklift trucks, marine engines, boats and other diversified products.

NISSAN has made a substantial and growing investment in North America. NISSAN's commitment is over \$6 billion dollars in capital investments in facilities across the continent. Some of the facilities include the Nissan Manufacturing facilities in Canton, Mississippi and in Smyrna, Tennessee, vehicle

styling design at Nissan Design America, Inc. in San Diego, California, and engineering at Nissan Technical Center North America in Farmington Hills, Michigan. Additionally, NISSAN employs more than 21,000 people throughout the United States, Canada, and Mexico. An additional 60,000 people work for the 1,250 NISSAN and INFINITI dealers across North America.

NISSAN is also a substantial contributor to the Canadian economy. Nissan Canada Inc., its suppliers and over 150 dealers employ approximately 4,500 people. These include company employees and the staffs of NISSAN dealers all across Canada. In addition, many Canadians work for companies that supply NISSAN and NISSAN dealers with materials and services ranging from the operation of port facilities and transportation services, to the supply of lubricants, parts and accessories.

NISSAN pioneered the use of electronics and computers in automobiles, and has led the industry in improving both performance and fuel efficiency through new engine designs and the use of synthetic materials to reduce vehicle weight. The company has also developed ways to build quality into its vehicles at each stage of the production process, both through extensive use of automation and most importantly — through an awareness that people are the central element in quality control.

From the time the parts arrived from our suppliers until you took delivery of your new NISSAN, dozens of checks were made to ensure that only the best job was being done in producing and delivering your vehicle. NISSAN also takes great care to ensure that when you take your NISSAN to your dealer for maintenance, the service technician will perform his work according to the quality standards that have been established by NISSAN.

Safety has also been built into your NISSAN. As you know, seat belts are an integral part of the safety systems that will help protect you and your passengers in the event of a sudden stop or an accident. We urge you to use the seat belts every time you drive the vehicle.

The NISSAN story of growth and achievement reflects our major goal: to provide you, our customer, with a vehicle that is built with quality and craftsmanship — a product that we can be proud to build and you can be proud to own.

NISSAN CUSTOMER CARE PROGRAM

NISSAN CARES...

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

However, if there is something that your NISSAN dealer cannot assist you with or you would like to provide NISSAN directly with comments or questions, please contact the NISSAN Consumer Affairs Department using our toll-free number:

For U.S. mainland and Alaska customers 1-800-NISSAN-1 (1-800-647-7261)

For Hawaii customers 1-808-836-0888 (Oahu Number)

For Canadian customers 1-800-387-0122

The Consumer Affairs Department will ask for the following information:

- Your name, address, and telephone number
- Vehicle identification number (attached to the top of the instrument panel on the driver's side)
- Date of purchase
- Current odometer reading
- Your NISSAN dealer's name
- Your comments or questions

OR

You can write to NISSAN with the information at:

For U.S. mainland and Alaska customers Nissan North America, Inc. Consumer Affairs Department P.O. Box 191 Gardena, California 90248-0191

For Hawaii customers Nissan Motor Corporation in Hawaii 2880 Kilihau St. Honolulu, Hawaii 96819

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

We appreciate your interest in NISSAN and thank you for buying a quality NISSAN vehicle.

Table of Contents

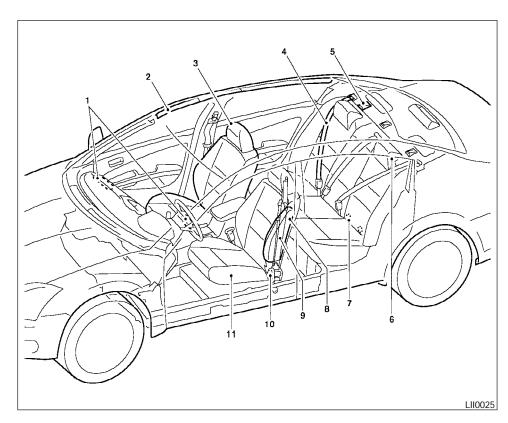
Illustrated table of contents	0
Safety—Seats, seat belts and supplemental air bags	1
Instruments and controls	2
Pre-driving checks and adjustments	3
Heater, air conditioner and audio systems	4
Starting and driving	5
In case of emergency	6
Appearance and care	7
Maintenance and do-it-yourself	8
Technical and consumer information	9
Index	10

0 Illustrated table of contents

Airbags, seat belts and child restraints	0-2
Exterior front	0-3
Exterior rear	0-4
Passangar compartment	0-5

Instrument panel	0-
Engine compartment locations	0-
Warning/indicator lights	0-1

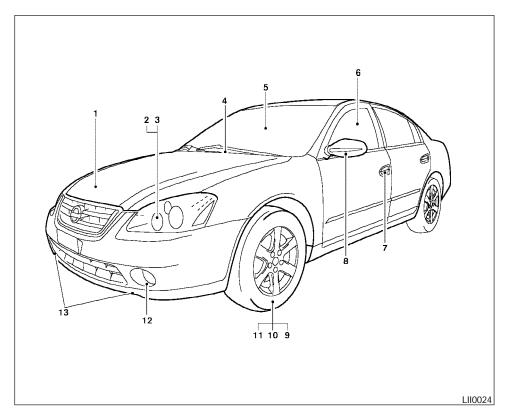
AIRBAGS, SEAT BELTS AND CHILD RESTRAINTS



- Supplemental front impact air bags (P. 1-8)
- 2. Supplemental curtain side-impact air bag (if so equipped) (P. 1-8)
- 3. Front head restraint (P. 1-7)
- 4. Rear seat belts (P. 1-22)
- 5. Top tether anchor point (P. 1-38)
- 6. Rear head restraint (P. 1-7)
- 7. LATCH (Lower Anchors and Tethers for CHildren) (P. 1-37)
- 8. Supplemental side impact air bag (if so equipped) (P. 1-8)
- Pront seat belts (P. 1-22)
- 10. Seat belt pretensioners (P. 1-19)
- 11. Seats (P. 1-2)

See the page number indicated in parentheses for operating details.

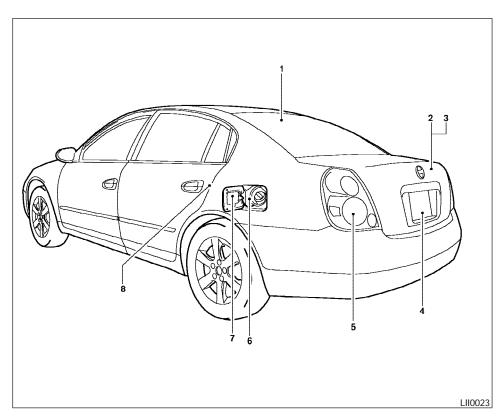
EXTERIOR FRONT



- Engine hood (P. 3-10) 1.
- Headlight and turn signal switch (P. 2-18)
- Replacing bulbs (P. 8-30)
- Windshield wiper and washer switch (P. 2-16)
- Windshield (P. 8-24)
- Power windows (P. 2-32)
- Door locks, keyfob, keys (P. 3-3, 3-5, 3-2)
- Mirrors (P. 3-16)
- Tire pressure (P. 9-11)
- 10. Flat tire (P. 6-2)
- 11. Tire chains (P. 8-40)
- 12. Fog light switch (if so equipped) (P. 2-22)
- 13. Tie down/towing hooks (P. 6-11)

See the page number indicated in parentheses for operating details.

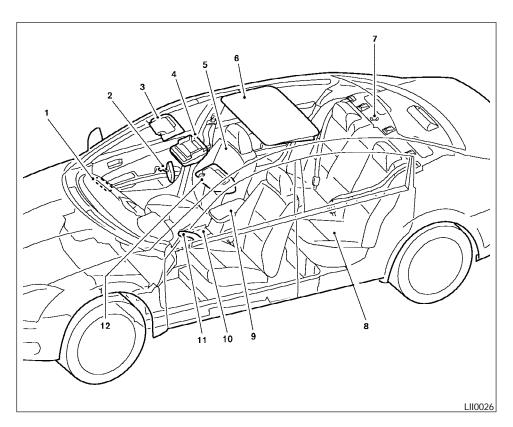
EXTERIOR REAR



- 1. Rear window defroster switch (P. 2-17)
- 2. Trunk lid (P. 3-11)
- 3. Vehicle loading (P.9-12)
- 4. Interior trunk lid release (P. 3-12)
- 5. Replacing bulbs (P. 8-30)
- 6. Fuel filler cap, fuel recommendation (P. 3-13, P. 9-23)
- 7. Fuel filler lid (P. 3-13)
- 8. Child safety locks (P. 3-5)

See the page number indicated in parentheses for operating details.

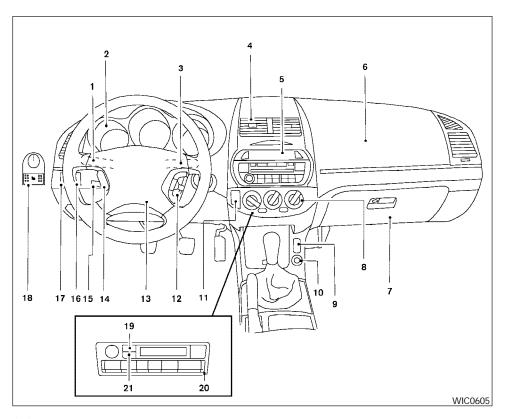
PASSENGER COMPARTMENT



- Glove box (P. 2-29) 1.
- Automatic anti-glare inside mirror (P. 3-16)
- Sun visors (P. 3-15)
- Interior lights, illuminated entry (P. 2-36)
- 5. Front seat (P. 1-2)
- 6. Sunroof (P. 2-34)
- Interior trunk access (P. 1-6
- Rear seat (P. 1-6)
- Front console (P. 2-29)
- 10. Front cup holders (P. 2-28)
- 11. Park brake, parking on hills (P. 5-12, P. 5-15)
- 12. HomeLink® (P. 2-38)

See the page number indicated in parentheses for operating details.

INSTRUMENT PANEL

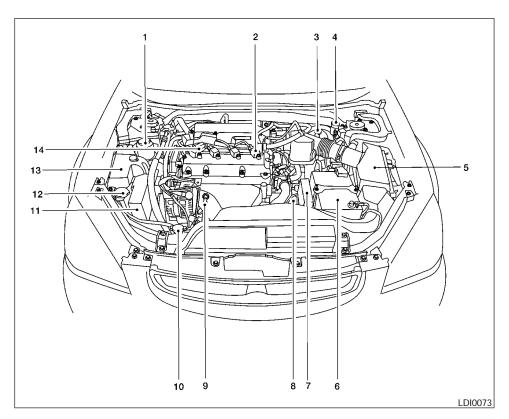


- Headlight and turn signal switch (P. 2-18)
- 2. Meters and gauges (P. 2-3)
- Windshield wiper/washer switch (P. 2-16)
- 4. Center ventilators (P. 4-2)
- 5. Audio system controls (P. 4-14)
- Front passenger supplemental air bag (P. 1-8)
- 7. Glove box (P. 2-29)
- Heater and air conditioner (manual)
 (P. 4-10)
- 9. Hazard warning flasher switch (P. 2-23)
- 10. Power outlet (P. 2-26)
- Rear window defroster switch (manual)
 (P. 2-17)
- 12. Cruise control main/set switch (if so equipped) (P. 5-12)
- 13. Driver supplemental air bag (P. 1-8)
- 14. Steering wheel switch for audio control (if so equipped) (P. 4-29)
- 15. Tilt/telescopic steering wheel controls (P. 3-14)
- 16. Traction control system (TCS) off switch (if so equipped) (P. 2-25)
- 17. Instrument brightness control (P. 2-21)

- 18. Outside mirror remote control (P. 3-17)
- 19. Front defroster switch (automatic) (P. 4-10)
- 20. Heater and air conditioner (automatic) (P. 4-10)
- 21. Rear window defroster switch (automatic) (P. 2-17)

See the page number indicated in parentheses for operating details.

ENGINE COMPARTMENT LOCATIONS



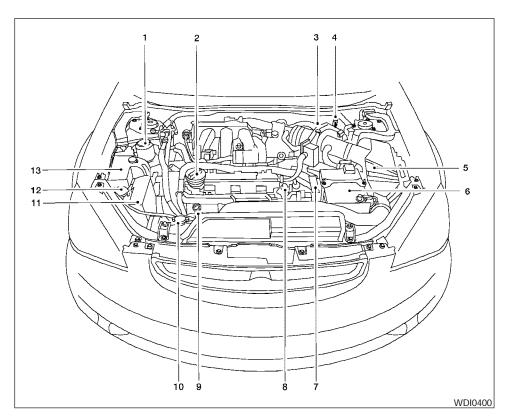
QR25DE engine

- 1. Power steering fluid reservoir (P. 8-14)
- 2. Spark plug caps (P. 8-19)
- 3. Brake fluid reservoir (P. 8-15)
- Clutch fluid reservoir (M/T model) (P. 8-15)
- 5. Air cleaner (P. 8-20)
- 6. Battery (P. 8-17)
- 7. Fuse/fusible link box (P. 8-26)
- 8. Transmission dipstick (A/T models) (P. 8-13)
- 9. Engine oil dipstick (P. 8-9)
- 10. Radiator cap (P. 8-8)
- 11. Fuse block (P. 8-26)
- Windshield washer fluid reservoir (P. 8-16)
- 13. Coolant reservoir (P. 8-8)
- 14. Engine oil filler cap (P. 8-9)

NOTE:

Engine cover removed for clarity.

See the page number indicated in parentheses for operating details.



VQ35DE engine

- Power steering fluid reservoir (P. 8-14)
- Engine oil filler cap (P. 8-9)
- Brake fluid reservoir (P. 8-15)
- Clutch fluid reservoir (M/T model) (P. 8-15)
- Air cleaner (P. 8-20)
- Battery (P. 8-17)
- Fuse/fusible link box (P. 8-26)
- Transmission dipstick (A/T models) (P. 8-13)
- Engine oil dipstick (P. 8-9)
- 10. Radiator cap (P. 8-8)
- 11. Fuse block (P. 8-26)
- 12. Windshield washer fluid reservoir (P. 8-16)
- 13. Coolant reservoir (P. 8-8)

NOTE:

Engine cover removed for clarity.

See the page number indicated in parentheses for operating details.

WARNING/INDICATOR LIGHTS

Warning light	Name	Page
Or (BB)	Anti-lock brake warning light (if so equipped)	2-9
Or Or	Brake warning light	2-10
- +	Charge warning light	2-10
	Door open warning light	2-10
\$\frac{1}{2}	Engine oil pressure warning light	2-10
	Low fuel warn- ing light	2-10

Warning light	Name	Page
(1)	Low windshield washer fluid warning light	2-11
K	Seat belt warning light and chime	2-11
*	Supplemental air bag warning light	1-20
4	Trunk lid open warning light	2-11

Indicator light	Name	Page
P	Automatic transmission position indica- tor light (A/T models)	5-4
CRUISE	CRUISE main switch indicator light (if so equipped)	5-12
SET	Cruise SET switch indicator light (if so equipped)	5-12
≣ O	High beam in- dicator light (blue)	2-12

Indicator light	Name	Page
SERVICE ENGINE SOON	Malfunction indicator lamp (MIL)	2-12
SLIP	Slip indicator light (if so equipped)	2-12
TCS (OFF)	Traction control system off indi- cator light (if so equipped)	2-13
	Turn signal/hazard indicator lights	2-13

MEMO

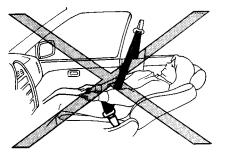
1 Safety—Seats, seat belts and supplemental air bags

Seats1-2
Front manual seat adjustment
Front power seat adjustment (if so equipped
for driver's seat)
Folding rear seat1-6
Head restraint adjustment
Supplemental restraint system 1-8
Precautions on supplemental restraint
system
Supplemental air bag warning labels1-20
Supplemental air bag warning light1-20
Seat belts
Precautions on seat belt usage1-22
Child safety1-24

	Pregnant women1-2
	Injured persons1-2
	Three-point type seat belt with retractor1-2
	Seat belt extenders1-29
	Seat belt maintenance1-29
Ch	ild restraints1-3
	Precautions on child restraints1-3
	Installation on rear seat center or outboard
	positions
	LATCH (Lower Anchors and Tethers for
	CHildren) system1-3
	Top tether strap child restraint1-3
	Installation on front passenger seat

SEATS





ARS1152

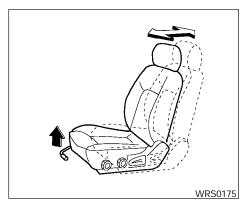
AWARNING

- Do not ride in a moving vehicle when the seatback is reclined. This can be dangerous. The shoulder belt will not be against your body. In an accident, you could be thrown into it and receive neck or other serious injuries. You could also slide under the lap belt and receive serious internal injuries.
- For the most effective protection when the vehicle is in motion, the seat should be upright. Always sit well back in the seat and adjust the seat properly. See "Precautions on Seat Belt Usage" later in this section.

FRONT MANUAL SEAT ADJUSTMENT

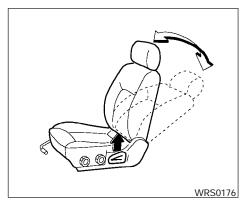
AWARNING

- Do not adjust the driver's seat while driving so full attention may be given to vehicle operation. The seat may move suddenly and could cause loss of control of the vehicle.
- After adjustment, gently rock in the seat to make sure it is securely locked.



Forward and backward

Pull the lever up and hold it while you slide the seat forward or backward to the desired position. Release the lever to lock the seat in position.



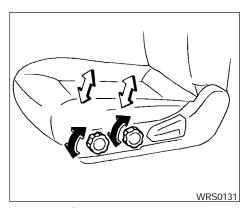
Reclining

To recline the seatback, pull the lever up and lean back. To bring the seatback forward, pull the lever up and lean your body forward. Release the lever to lock the seatback in position.

The reclining feature allows adjustment of the seatback for occupants of different sizes to help obtain proper seat belt fit (see "Precautions on seat belt usage" later in this section). Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped.

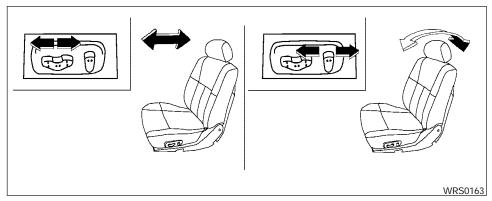
AWARNING

After adjustment, gently rock in the seat to make sure it is securely locked.



Seat lifter (if so equipped for driver's seat)

Turn either dial to adjust the angle and height of the seat cushion to the desired position.



FRONT POWER SEAT ADJUSTMENT (if so equipped for driver's seat)

WARNING

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

Operating tips

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

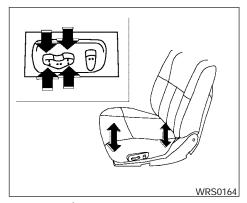
Forward and backward

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

Reclining

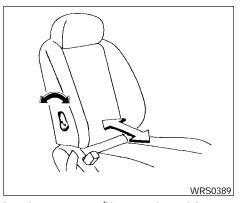
Move the recline switch backward until the desired angle is obtained. To bring the seatback forward again, move the switch forward and move your body forward. The seatback will move forward.

The reclining feature allows adjustment of the seatback for occupants of different sizes to help obtain proper seat belt fit (see "Precautions on seat belt usage" later in this section). Also, the seatback can be reclined to allow occupants to rest when the vehicle is stopped.



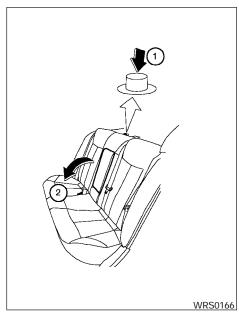
Seat lifter (if so equipped for driver's seat)

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



Lumbar support (if so equipped for driver's seat)

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



FOI DING REAR SEAT

Interior trunk access

The trunk can be accessed from the passenger side of the rear seat for loading and unloading, as shown.

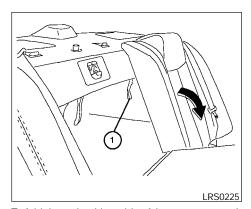
- 1 Push down on the button on the rear parcel shelf.
- 2 Fold down the passenger side seatback.

AWARNING

- Never allow anyone to ride in the cargo area or on the rear seat when it is in the fold-down position. Use of these areas by passengers without proper restraints could result in serious injury in an accident or sudden stop.
- Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.
- When returning the seatbacks to the upright position, be certain they are completely secured in the latched position. If they are not completely secured, passengers may be injured in an accident or sudden stop.

 Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.

1-6 Safety—Seats, seat belts and supplemental air bags



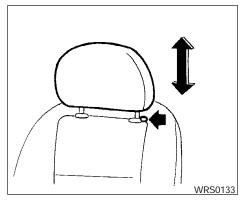
To fold down the driver side of the rear seat, reach through the opening and pull on the strap (1) located behind the seat.

The rear seats can be locked using the master key to prevent unauthorized access. The valet key cannot be used to lock or unlock the release button. For more information on keys, refer to "Keys" in the "Pre-driving checks and adjustments" section of this manual.



Center armrest

Pull the armrest forward until it is horizontal.



HEAD RESTRAINT ADJUSTMENT

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

AWARNING

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

WRS0134

Adjust the head restraint so the center is level with the center of your ears.

SUPPLEMENTAL RESTRAINT **SYSTEM**

PRECAUTIONS ON SUPPLEMENTAL RESTRAINT SYSTEM

This Supplemental Restraint System (SRS) section contains important information concerning the driver and passenger supplemental front air bags, supplemental side air bags, curtain sideimpact air bags and pre-tensioner seat belts.

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

Supplemental side-impact air bag system (if so equipped): This system can help cushion the impact force to the head and the chest area of the driver and front passenger in certain side impact collisions. The supplemental side air bag is designed to inflate on the side where the vehicle is impacted.

Supplemental curtain side-impact air bag system (if so equipped): This system can help cushion the impact force to the head of occupants in front and rear outboard seating positions in certain side impact collisions. The curtain sideimpact air bags are designed to inflate on the side where the vehicle is impacted.

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

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

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

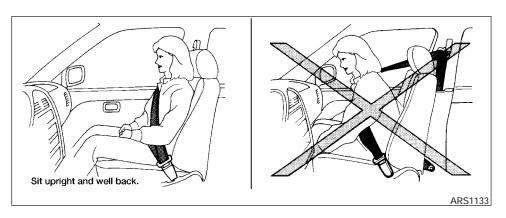


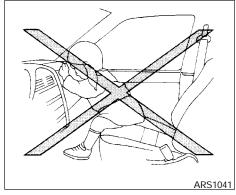


WRS0031

- **WARNING**
- The supplemental front air bags ordinarily will not inflate in the event of a side impact, rear impact, rollover, or lower severity frontal collision. Always wear your seat belts to help reduce the risk or severity of injury in various kinds of accidents.
- The seat belts and the supplemental front air bags are most effective when you are sitting well back and upright in the seat. The front air bags inflate with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the supplemental front air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel or instrument panel. Always use the seat belts.

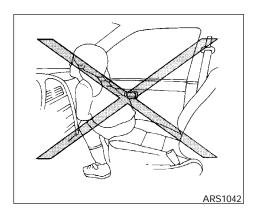
- The driver and front passenger seat belt buckles are equipped with sensors that detect if the seat belts are fastened. The air bag system monitors the severity of a collision and then inflates the air bags based on belt usage. Failure to properly wear seat belts can increase the risk or severity of injury in an accident.
- Keep hands on the outside of the steering wheel. Placing them inside the steering wheel rim could increase the risk that they are injured when the supplemental front air bag inflates.

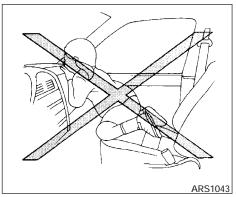


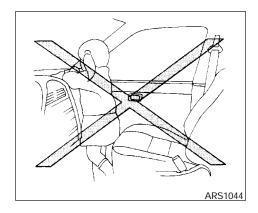


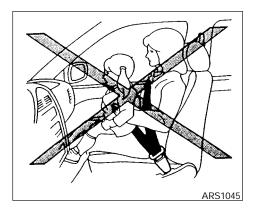
WARNING

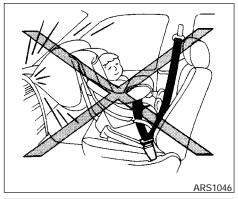
 Never let children ride unrestrained or extend their hands or face out of the window. Do not attempt to hold them in your lap or arms. Some examples of dangerous riding positions are shown in the illustrations.





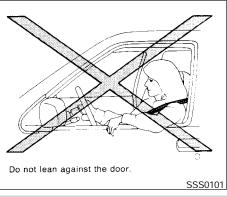








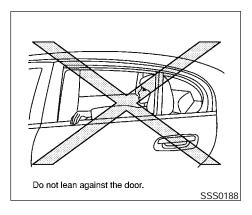
- Children may be severely injured or killed when the supplemental front air bags, side air bags or curtain sideimpact air bags inflate if they are not properly restrained. Pre-teens and children should be properly restrained in the rear seat, if possible.
- Never install a rear-facing child restraint in the front seat. An inflating supplemental front air bag could seriously injure or kill your child. See "Child restraints" later in this section for details.



AWARNING

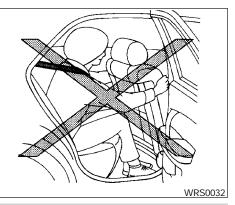
Supplemental side air bag and curtain side-impact air bag (if so equipped):

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



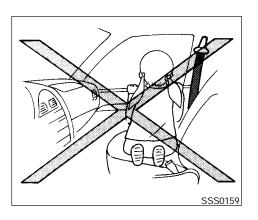
AWARNING

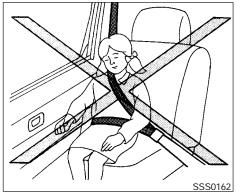
The seat belts, the supplemental side air bags and curtain side-impact air bags are most effective when you are sitting well back and upright in the seat. The side air bag and curtain side-impact air bag inflate with great force. Do not allow anyone to place their hand, leg or face near the side air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

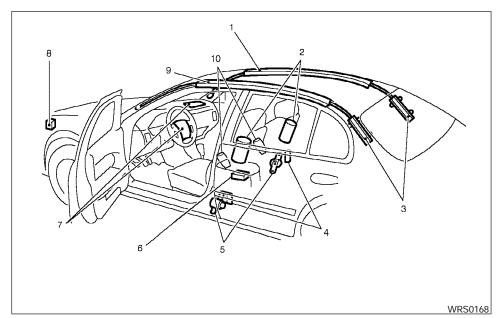


WARNING

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







- SRS curtain side-impact air bag (right) (if so equipped)
- Supplemental side air bag modules (if so equipped)
- SRS curtain side-impact air bag module (if so equipped)

- 4. Satellite sensors
- 5. Seat belt pre-tensioner retractor
- 6. Diagnosis sensor unit
- 7. Supplemental front air bag modules
- 3. Crash zone sensor

- SRS curtain side-impact air bag (left) (if so equipped)
- 10. Seat belt buckle switches

Supplemental front air bag system

The driver supplemental front air bag is located in the center of the steering wheel. The passenger supplemental front air bag is mounted in the dashboard above the glove box.

These systems are designed to meet optional certification requirements under U.S. regulations. They are also permitted in Canada. The optional certification allows the front air bags to be designed to inflate somewhat less forcefully than previously. However, all of the information, cautions and warnings in this manual still apply and must be followed.

The supplemental front 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 supplemental front air bag system operation.

The supplemental air bag system has dual stage inflators for both the driver and passenger air bags. The system monitors information from the crash zone sensor, the diagnosis sensor unit and

seat belt buckle sensors that detect if the seat belts are fastened. Inflator operation is based on the severity of a collision and whether the seat belts are being used. Only one front air bag may inflate in a crash, depending on the crash severity and whether the front occupants are belted or unbelted. This does not indicate improper performance of the system. If you have any questions about the performance of your air bag system, please contact your NISSAN dealer.

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

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

Seat belts should be correctly worn and the driver and passenger seated upright as far as practical away from the steering wheel or instrument panel. The supplemental front air bags inflate quickly in order to help protect the front

occupants. Because of this, the force of the front air bag inflating can increase the risk of injury if the occupant is too close to, or is against, the front air bag module during inflation.

The front air bags deflate quickly after a collision.

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

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

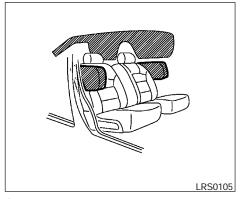
AWARNING

- Do not place any objects on the steering wheel pad or on the instrument panel. Also, do not place any objects between any occupant and the steering wheel or instrument panel. Such objects may become dangerous projectiles and cause injury if the supplemental front air bag inflates.
- Immediately after inflation, several front air bag system components will be hot. Do not touch them; you may severely burn yourself.

- No unauthorized changes should be made to any components or wiring of the supplemental air bag system. This is to prevent accidental inflation of the supplemental air bag or damage to the supplemental air bag system.
- Do not make unauthorized changes to your vehicle's electrical system, suspension system or front end structure.
 This could affect proper operation of the supplemental front air bag system.
- Tampering with the supplemental front air bag system may result in serious personal injury. Tampering includes changes to the steering wheel and the instrument panel assembly by placing material over the steering wheel pad and above the instrument panel or by installing additional trim material around the air bag system.

- Work on and around the supplemental front air bag system should be done by a NISSAN dealer. Installation of electrical equipment should also be done by a NISSAN dealer. The Supplemental Restraint System (SRS) wiring should not be modified or disconnected. Unauthorized electrical test equipment and probing devices should not be used on the air bag system.
- A cracked windshield should be replaced immediately by a qualified repair facility. A cracked windshield could affect inflation of the supplemental air bag system.
- The SRS wiring harness connectors are vellow and orange for easy identification.

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



Supplemental side-impact air bag and curtain side-impact air bags system (if so equipped)

The supplemental side-impact air bags are located in the outside of the seatback of the front seats. The supplemental curtain side-impact air bags are located in the side roof rails. These systems are designed to meet voluntary guidelines to help reduce the risk of injury to out-ofposition occupants. However, all of the information, cautions and warnings in this manual still apply and must be followed.

The supplemental side air bags and curtain sideimpact air bags are designed to inflate in higher severity side collisions, although they may inflate if the forces in another type of collision are similar to those of a higher severity side impact. They are designed to inflate on the side where the vehicle is impacted. They may not inflate in certain side collisions.

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

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

Supplemental side air bags, along with the use of seat belts, help to cushion the impact force on the chest of the front occupants. Curtain sideimpact air bags help to cushion the impact force to the head of occupants in the front and rear outboard seating positions. They can help save lives and reduce serious injuries. However, an inflating side air bag and curtain side-impact air bag may cause abrasions or other injuries. Supplemental side air bags and curtain sideimpact 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 supplemental side air bag. Rear seat passengers should be seated as far away as practical from the door finishers and side roof rails. The side air bags and curtain side-impact air bag inflate quickly in order to help protect the front occupants. Because of this, the force of the side air bag and curtain side-impact air bag inflating can increase the risk of injury if the occupant is too close to, or is against, these air bag modules during inflation. The side air bag and curtain side-impact air bag will deflate quickly after the collision is over.

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

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

WARNING

- Do not place any objects near the seatback of the front seats. Also, do not place any objects (an umbrella, bag, etc.) between the front door finisher and the front seat. Such objects may become dangerous projectiles and cause injury if the supplemental side air bag inflates.
- Right after inflation, several side air bag and curtain side-impact air bag system components will be hot. Do not touch them: you may severely burn yourself.
- No unauthorized changes should be made to any components or wiring of the side air bag and curtain side-impact air bag system. This is to prevent accidental inflation of the side air bag and curtain side-impact air bag or damage to the side air bag and curtain sideimpact air bag system.
- Do not make unauthorized changes to your vehicle's electrical system, suspension system or side panel. This could affect proper operation of the supplemental side air bag and curtain side-impact air bag system.

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

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

Pre-tensioner seat belt system (For front seats)

AWARNING

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

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

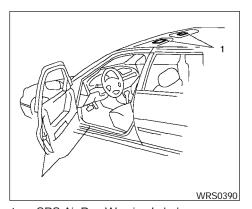
The front seat pre-tensioner seat belt system activates in conjunction with the supplemental air bag systems. Working with the seat belt retractor, it helps tighten the seat belt when the vehicle becomes involved in certain types of collisions, helping to restrain front seat occupants.

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

When the pre-tensioner seat belt activates, smoke is released and a loud noise may be heard. This smoke is not harmful and does not indicate a fire. Care should be taken not to inhale it, as it may cause irritation and choking. Those with a history of a breathing condition should get fresh air promptly.

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

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



SRS Air Bag Warning Labels SUPPLEMENTAL AIR BAG WARNING LABELS

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



SUPPLEMENTAL AIR BAG WARNING LIGHT

The supplemental air bag warning light, displaying * in the instrument panel, monitors the circuits of the supplemental front air bag. supplemental side air bag and curtain sideimpact air bag (if so equipped) and pre-tensioner seat belt systems. The circuits monitored by the supplemental air bag warning light are the diagnosis sensor unit, crash zone sensor, satellite sensors, front air bag modules, side air bag modules, curtain side-impact air bag modules, pretensioner seat belts and all related wiring.

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

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

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

Under these conditions, the supplemental front air bag, supplemental side air bags and curtain side-impact air bag (if so equipped) or pretensioner seat belt systems may not operate properly. It must be checked and repaired. Take vour vehicle to the nearest NISSAN dealer.

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

Repair and replacement procedure

The supplemental front air bags, supplemental side air bags, curtain side-impact air bags (if so equipped) and pre-tensioner seat belts are designed to inflate on a one-time-only basis. As a reminder, unless it is damaged, the supplemental air bag warning light remains illuminated after inflation has occurred. Repair and replacement of these supplemental air bag systems should be done only by a NISSAN dealer.

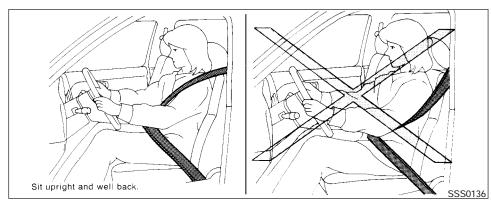
When maintenance work is required on the vehicle, the supplemental front air bags, supplemental side air bags, curtain side-impact air bags (if so equipped), pre-tensioner seat belts and related parts should be pointed out to the person performing the maintenance. The ignition key should always be in the LOCK position when working under the hood or inside the vehicle.

AWARNING

Once a supplemental front air bag, supplemental side air bag or curtain side-impact air bag has inflated, the air bag module will not function again and must be replaced. Additionally, if any of the supplemental front air bags inflate, the activated pre-tensioner seat belts must also be replaced. The air bag module and pre-tensioner seat belt system should be replaced by a NISSAN dealer. The air bag module and pre-tensioner seat belt system cannot be repaired.

- The supplemental front air bag, side air bag and curtain side-impact air bag systems, and the pre-tensioner seat belt system should be inspected by a NISSAN dealer if there is any damage to the front end or side portion of the vehicle.
- If you need to dispose of the supplemental air bag, pre-tensioner seat belt system or scrap the vehicle, contact a NISSAN dealer. Correct supplemental air bag and pre-tensioner seat belt system disposal procedures are set forth in appropriate NISSAN Service the Manual. Incorrect disposal procedures could cause personal injury.

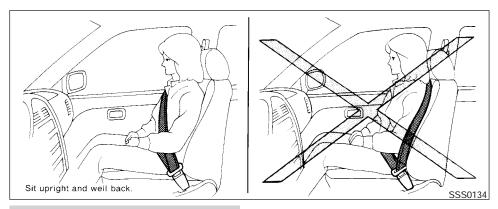
SEAT BELTS

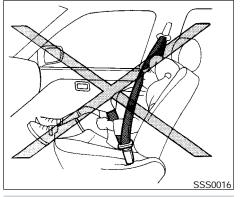


PRECAUTIONS ON SEAT BELT **USAGE**

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

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

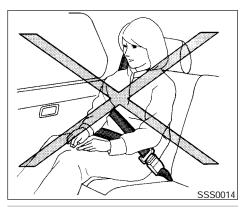




Every person who drives or rides in this vehicle should use a seat belt at all times. Children should be properly restrained in the rear seat and, if appropriate, in a child restraint.

AWARNING

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



- Always route the shoulder belt over your shoulder and across your chest.
 Never run the belt behind your back, under your arm or across your neck. The belt should be away from your face and neck, but not falling off your shoulder.
- Position the lap belt as low and snug as possible AROUND THE HIPS, NOT THE WAIST. A lap belt worn too high could increase the risk of internal injuries in an accident.

- Be sure the seat belt tongue is securely fastened to the proper buckle.
- Do not wear the seat belt inside out or twisted. Doing so may reduce its effectiveness.
- Do not allow more than one person to use the same seat belt.
- Never carry more people in the vehicle than there are seat belts.
- If the seat belt warning light glows continuously while the ignition is turned
 ON with all doors closed and all seat
 belts fastened, it may indicate a malfunction in the system. Have the system
 checked by a NISSAN dealer.
- Once the pre-tensioner seat belt has activated, it cannot be reused and must be replaced together with the retractor. See your NISSAN dealer.
- Removal and installation of the pretensioner seat belt system components should be done by a NISSAN dealer.

- All seat belt assemblies, including retractors and attaching hardware, should be inspected after any collision by a NISSAN dealer. NISSAN recommends that all seat belt assemblies in use during a collision be replaced unless the collision was minor and the belts show no damage and continue to operate properly. Seat belt assemblies not in use during a collision should also be inspected and replaced if either damage or improper operation is noted.
- All child restraints and attaching hardware should be inspected after any collision. Always follow the restraint manufacturer's inspection instructions and replacement recommendations. The child restraints should be replaced if they are damaged.

CHILD SAFETY

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

The proper restraint depends on the child's size. Generally, infants up to about 1 year and less than 20 pounds (9 kg) should be placed in rear facing child restraints. Front facing child restraints are available for children who outgrow rear facing child restraints.

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

All U.S. states and Canadian provinces or territories require the use of approved child restraints for infants and small children. See "Child Restraints" later in this section.

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

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

Infants and small children

NISSAN recommends that infants and small children be placed in child restraints that comply with Federal Motor Vehicle Safety Standards or Canadian Motor Vehicle Safety Standards. You should choose a child restraint that fits your vehicle and always follow the manufacturer's instructions for installation and use.

Larger children

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

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.

AWARNING

Never let a child stand or kneel on any seat and do not allow a child in the cargo areas while the vehicle is moving. The child could be seriously injured or killed in an accident or sudden stop.

PREGNANT WOMEN

NISSAN recommends that pregnant women use seat belts. The seat belt should be worn snug, and always position the lap belt as low as possible around the hips, not the waist. Place the shoulder belt over your shoulder and across your chest. Never run the lap/shoulder belt over your abdominal area. Contact your doctor for specific recommendations.

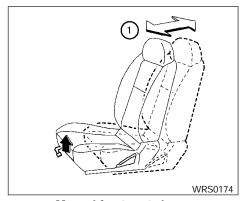
INJURED PERSONS

NISSAN recommends that injured persons use seat belts. Check with your doctor for specific recommendations.

THREE-POINT TYPE SEAT BELT WITH RETRACTOR

WARNING

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



Manual front seat shown

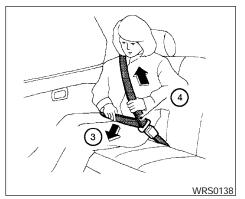
Fastening the seat belts

1) Adjust the seat. See "Seats" earlier in this section.



Slowly pull the seat belt out of the retractor and insert the tongue into the buckle until you hear and feel the latch engage.

The retractor is designed to lock during a sudden stop or on impact. A slow pulling motion permits the seat belt to move, and allows you some freedom of movement in the seat.



- Position the lap belt portion low and snug on the hips as shown.
- 4) Pull the shoulder belt portion toward the retractor to take up extra slack. Be sure the shoulder belt is routed over your shoulder and across your chest.

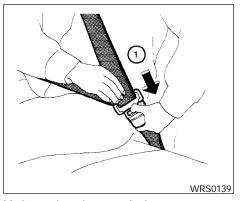
The front passenger seat belt and the rear threepoint seat belts have a cinching mechanism for child restraint installation. It is referred to as the automatic locking mode.

When automatic locking mode is activated the seat belt cannot be withdrawn again until the seat belt tongue is detached from the buckle and fully retracted. Once retracted, the seat belt is in the emergency locking mode. See "Child restraints" later in this section for more information.

The automatic locking mode should be used only for child restraint 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.

AWARNING

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



Unfastening the seat belts

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

Checking seat belt operation

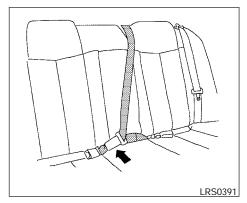
Seat belt retractors are designed to lock seat belt movement by two separate methods:

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

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

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

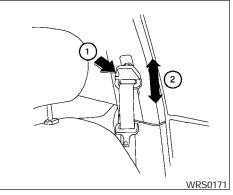
If the retractor does not lock during this check or if you have any questions about seat belt operation, see a NISSAN dealer.



Center of rear seat

Selecting correct set of seat belts:

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



Shoulder belt height adjustment (For front seats)

The shoulder belt anchor height should be adjusted to the position best for you. (See "Precautions on seat belt usage" earlier in this section.) The belt should be away from your face and neck, but not falling off your shoulder. Release the adjustment button to lock the shoulder belt anchor into position.

To adjust the shoulder belt anchor height:

1 Push in the adjustment button.

Move the shoulder belt anchor to the desired position so the belt passes over the center of the shoulder.

AWARNING

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

SEAT BELT EXTENDERS

If, because of body size or driving position, it is not possible to properly fit the lap-shoulder belt and fasten it, an extender 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 a NISSAN dealer for assistance if an extender is required.

AWARNING

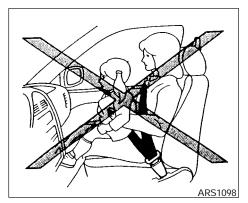
- Only NISSAN seat belt extenders, made by the same company which made the original equipment seat belts, should be used with NISSAN seat belts.
- Adults and children who can use the standard seat belt should not use an extender. Such unnecessary use could result in serious personal injury in the event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

SEAT BELT MAINTENANCE

• To clean the seat belt webbing, apply a mild soap solution or any solution recommended for cleaning upholstery or carpet. Then wipe with a cloth and allow the seat belts to dry in the shade. Do not allow the seat belts to retract until they are completely dry.

- If dirt builds up in the shoulder belt guide of the seat belt anchors, the seat belts may retract slowly. Wipe the shoulder belt guide with a clean, dry cloth.
- Periodically check to see that the seat belt and the metal components, such as buckles, tongues, retractors, flexible wires and anchors, work properly. If loose parts, deterioration, cuts or other damage on the webbing is found, the entire seat belt assembly should be replaced.

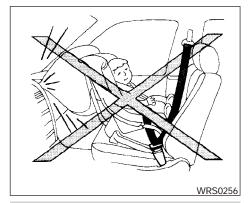
CHILD RESTRAINTS



PRECAUTIONS ON CHILD RESTRAINTS

AWARNING

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.



WARNING

Infants and small children should never be carried on your lap. It is not possible for even the strongest adult to resist the forces of a severe accident. The child could be crushed between the adult and parts of the vehicle. Also, do not put the same seat belt around both your child and yourself.

- Never install a rear-facing child restraint in the front seat. An inflating supplemental front air bag could seriously injure or kill your child. A rearfacing child restraint must only be used in the rear seat.
- NISSAN recommends that the child restraint be installed in the rear seat. According to accident statistics, children are safer when properly restrained in the rear seat than in the front seat.
- An improperly installed child restraint could lead to serious injury or death in an accident.

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

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

- Choose only a restraint with a label certifying that it complies with Federal Motor Vehicle Safety Standard 213 or Canadian Motor Vehicle Safety Standard 213.
- Check the child restraint in your vehicle to be sure it is compatible with the vehicle's seat and seat belt system.
- If the child restraint is compatible with your vehicle, place your child in the child restraint and check the various adjustments to be sure the child restraint is compatible with your child. Always follow all recommended procedures.

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

AWARNING

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

- For a front-facing child restraint, check to make sure the shoulder belt does not go in front of the child's face or neck. If it does, put the shoulder belt behind the child restraint. If you must install a front facing child restraint in the front seat, see "Installation on front passenger seat" later in this section.
- When your child restraint is not in use, keep it secured with a seat belt to prevent it from being thrown around in case of a sudden stop or accident.

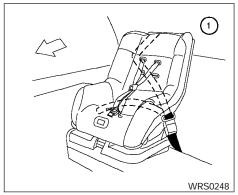
ACAUTION

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

INSTALLATION ON REAR SEAT **CENTER OR OUTBOARD POSITIONS**

WARNING

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

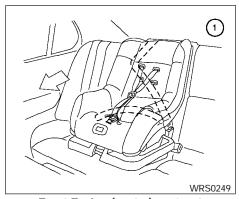


Front Facing (outboard) — step 1

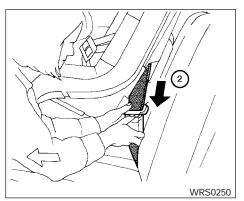
Front facing

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

1. Position the child restraint on the seat. It can be placed in a front facing direction, depending on the size of the child. Always follow the restraint manufacturer's instructions.



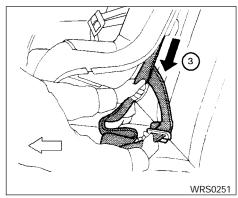
Front Facing (center) — step 1



Front Facing — step 2

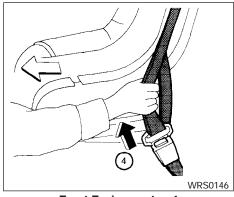
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.

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



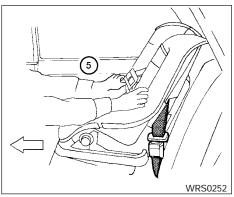
Front Facing — step 3

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



Front Facing — step 4

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

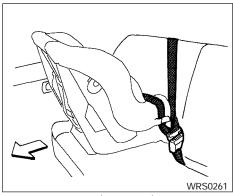


Front Facing — step 5

- 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. It should not move more than 1 inch (25mm).
- Check that the retractor is in the automatic locking mode by trying to pull more seat belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the retractor is in the automatic locking mode.

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 fully retracted, the automatic locking mode (child restraint mode) is canceled.

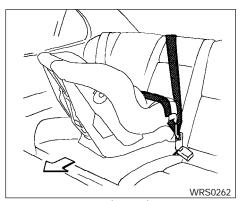


Rear Facing (outboard) — step 1

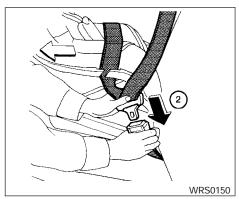
Rear facing

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

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



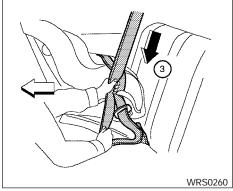
Rear Facing (center) - step 1



Rear Facing — step 2

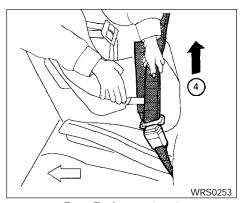
2. Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.

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



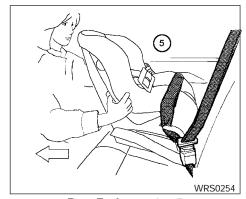
Rear Facing — step 3

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



Rear Facing - step 4

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

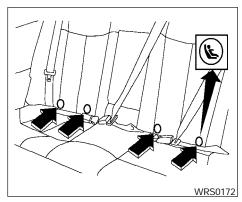


Rear Facing — step 5

- 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. It should not move more than 1 inch (25mm).
- 6. Check that the retractor is in the automatic locking mode by trying to pull more seat belt out of the retractor. If you cannot pull any more seat belt webbing out of the retractor, the retractor is in the automatic locking mode.

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

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



LATCH (Lower Anchors and Tethers for CHildren) SYSTEM

- Attach LATCH system compatible child restraints only at the locations shown. If a child restraint is not secured properly. your child could be seriously injured or killed in an accident.
- Do not secure a child restraint in the center rear seating position using the LATCH system anchors. The child restraint will not be secured properly.

The LATCH system anchors are designed to withstand only those loads imposed by correctly fitted child restraints. Under no circumstance are they to be used for adult seat belts or harnesses.

Some child restraints include two rigid or webbing-mounted attachments that can be connected to two anchors located at certain seating positions in your vehicle. This system is known as the LATCH (Lower Anchors and Tethers for CHildren) system. This system may also be referred to as the ISOFIX or ISOFIX compatible system. With this system, you do not have to use a vehicle seat belt to secure the child restraint. Your vehicle is equipped with special anchor points that are used with LATCH system compatible child restraints. Check your child restraint for a label stating that it is compatible with the LATCH system. This information may also be in the child restraint owner's manual. If you have such a child restraint, refer to the illustration for the seating positions equipped with LATCH system anchors which can be used to secure the child restraint.

The LATCH system anchors are located at the rear of the seat cushion near the seatback. A label is attached to the seatback to help you locate the LATCH system anchors.

LATCH child restraints generally require the use of a top tether strap. See "Top tether strap child restraint" later in this section for installation instructions.

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

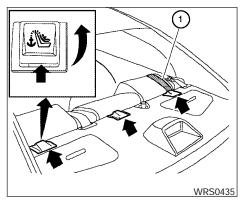
When you install a LATCH system compatible child restraint to the lower anchor attachments. follow these steps:

WARNING

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

1. To install the LATCH system compatible child restraint, insert the child restraint LATCH system anchor attachments into the anchor points on the seat. If the child restraint is equipped with a top tether, see "Top tether strap child restraint" later in this section for installation instructions.

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



TOP TETHER STRAP CHILD RESTRAINT

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

Flip up the anchor cover from the anchor point which is located directly behind the child seat. Position the top tether strap over the top of the seat back (1) and secure it to the tether anchor bracket that provides the straightest installation.

Tighten the strap according to the manufacturer's instructions to remove any slack.

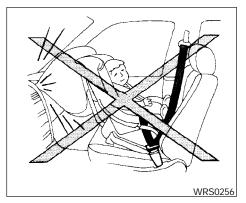
AWARNING

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

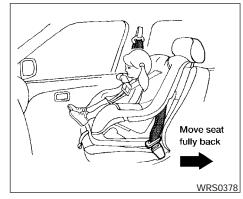
Anchor points are located on the rear parcel shelf finisher.

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



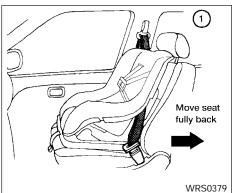
INSTALLATION ON FRONT PASSENGER SEAT

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



- NISSAN recommends that child restraints be installed in the rear seat. However, if you must install a forwardfacing child restraint in the front passenger seat, move the passenger seat to the rearmost position.
- A child restraint with a top tether strap should not be used in the front passenger seat.
- The three-point seat belt in your vehicle is equipped with an automatic locking mode retractor which must be used when installing a child restraint.

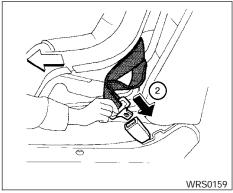
Failure to use the retractor's locking mode will result in the child restraint not being properly secured. The restraint could tip over or otherwise be unsecured and cause injury to the child in a sudden stop or collision.



Front Facing — step 1

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

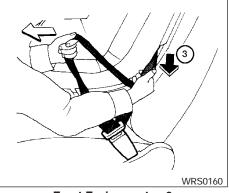
Position the child restraint on the front passenger seat. It should be placed in a front-facing direction only. Move the seat to the rearmost position. Adjust the head restraint to its highest position. Always follow the child restraint manufacturer's instructions. Child restraints for infants must be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



Front Facing — step 2

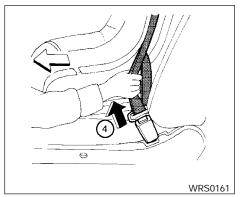
Route the seat belt tongue through the child restraint and insert it into the buckle until you hear and feel the latch engage.

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



Front Facing - step 3

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



Front Facing - step 4

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



Front Facing — step 5

- 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. It should not move more than 1 inch.
- 6. Check that the retractor is in the automatic locking mode by trying to pull more seat belt out of the retractor. If you cannot pull any more belt webbing out of the retractor, the retractor is in the automatic locking mode.

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

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

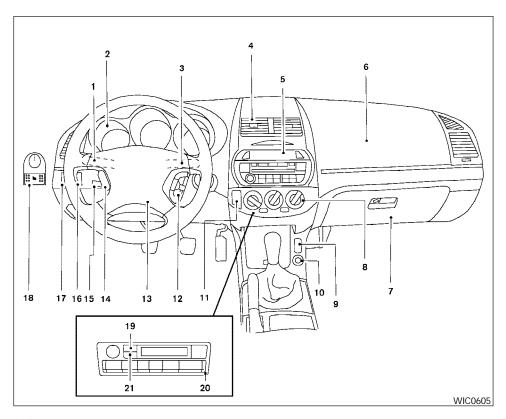
2 Instruments and controls

Instrument panel2-2	Instrument brightness control	2-2
Meters and gauges	Turn signal switch	
Speedometer and odometer 2-4	Fog light switch (if so equipped)	2-2
Trip computer (if so equipped) 2-5	Hazard warning flasher switch	
Tachometer2-6	Horn	
Engine coolant temperature gauge2-7	Heated seat (if so equipped)	2-2
Fuel gauge 2-8	Traction control system (TCS) off switch	
Warning/indicator lights and audible reminders 2-9	(if so equipped)	2-2
Checking bulbs2-9	Power outlet	
Warning lights2-9	Storage	2-2
Indicator lights	Map pockets	2-2
Audible reminders	Seatback pockets (if so equipped)	2-2
Security systems	Sunglasses holder	2-2
Vehicle security system (if so equipped)2-13	Cup holders	2-2
Nissan vehicle immobilizer system (NVIS)2-15	Glove box	2-2
Windshield wiper and washer switch2-16	Console box	2-2
Switch operation	Covered storage box	2-3
Rear window and outside mirror (if so equipped)	Cargo net (if so equipped)	2-3
defroster switch	Windows	
Headlight and turn signal switch2-18	Power windows	2-3
Xenon headlights (if so equipped)2-18	Sunroof (if so equipped)	2-3
Headlight control switch2-19	Automatic sunroof	
Daytime running light system (Canada only) 2-21	Interior light	2-3

Map lights	Program Clearin Rolling Reprog If your v
transceiver2-40	

Programming trouble-diagnosis	. 2-40
Clearing the programmed information	. 2-40
Rolling code programming	. 2-40
Reprogramming a single HomeLink® button	. 2-41
If your vehicle is stolen	. 2-41

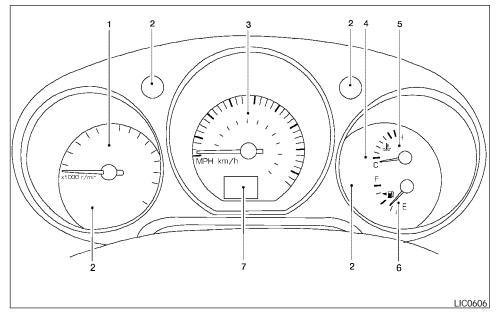
INSTRUMENT PANEL



- Headlight and turn signal switch (P. 2-18)
- 2. Meters and gauges (P. 2-3)
- Windshield wiper/washer switch (P. 2-16)
- 4. Center ventilator (P. 4-2)
- 5. Audio system controls (if so equipped) (P. 4-14)
- 6. Front passenger supplemental air bag (P. 1-8)
- 7. Glove box (P. 2-29)
- 8. Heater and air conditioner (manual) (P. 4-3)
- 9. Hazard warning flasher switch (P. 2-23)
- 10. Power outlet (P. 2-26)
- Rear window defroster switch (manual)
 (P. 2-17)
- 12. Cruise control main/set switch (if so equipped) (P. 5-12)
- 13. Driver supplemental air bag (P. 1-8)
- 14. Steering wheel switch for audio control (if so equipped) (P. 4-29)
- Tilt/telescopic steering wheel controls (P. 3-14)
- 16. Traction control system (TCS) off switch (if so equipped) (P. 2-25)

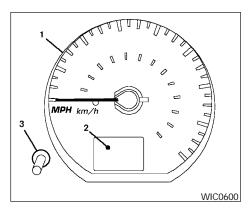
METERS AND GAUGES

- Instrument brightness control (P. 2-21)
- 18. Outside mirror remote control (P. 3-17)
- 19. Front defroster switch (automatic) (P. 4-10)
- 20. Heater and air conditioner (automatic) (P. 4-10)
- 21. Rear window defroster switch (automatic) (P. 2-17)



- Tachometer
- Warning/indicator lights
- Speedometer
- Automatic transmission position indicator lights (if so equipped)
- 5. Engine coolant temperature gauge

- Fuel gauge
- Odometer/trip odometer



- 1. Speedometer
- 2. Odometer/twin trip display
- 3. Change button

SPEEDOMETER AND ODOMETER

Speedometer

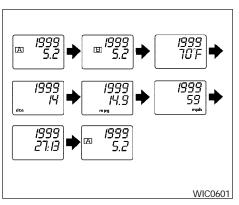
The speedometer indicates vehicle speed in miles per hour (MPH) and kilometers per hour (km/h).

Odometer/Twin trip odometer (if so equipped)

The odometer/twin trip odometer (if so equipped) is displayed when the ignition key is in the ON position.

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

The twin trip odometer (if so equipped) records the distance of individual trips.



Changing the display:

Pushing the change button changes the display as follows:

Trip \blacksquare \rightarrow Trip \blacksquare \rightarrow Outside temperature \rightarrow Distance to Empty \rightarrow Average economy \rightarrow Average speed \rightarrow Elapsed time \rightarrow Trip \blacksquare

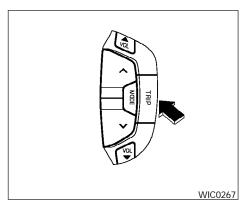
Resetting the trip odometer:

Pushing the change button for more than 1 second resets the trip odometer to zero.

TRIP COMPUTER (if so equipped)

The display of the trip computer is situated in the speedometer display. When the ignition is turned to ON, the display scrolls all the modes of the trip computer and then shows the mode chosen before the ignition switch is turned OFF.

If the battery terminal is disconnected, push the trip computer mode switch more than 1 second to activate the computer.



When the ignition switch is turned to ON, modes of the trip computer can be selected by pushing the trip mode switch on the steering wheel switch for audio controls or by the trip computer change button. The following modes can be selected:

Outside air temperature (ICY-°F or °C)

The outside air temperature is displayed in °F or °C.

The outside air temperature mode includes a low temperature warning feature: below 37°F (3°C), the outside air temperature mode is automatically selected and ICY will illuminate in order to draw the driver's attention. Press the mode switch if you wish to return to the mode that was selected

before the warning occurred. The ICY indicator will continue blinking as long as the temperature remains below 39°F (4°C).

The ambient temperature sensor is located in front of the radiator. The sensor may be affected by road or engine heat, wind directions and other driving conditions. The display may differ from the actual ambient temperature or the temperature displayed on various signs or billboards.

Distance to empty (dte-mile or km)

The distance to empty (dte) mode provides you with an estimation of the distance that can be driven before refueling. The dte is constantly being calculated, based on the amount of fuel in the fuel tank and the actual fuel consumption.

The display is updated every 30 seconds.

The dte mode includes a low range warning feature: when the fuel level is low, the dte mode is automatically selected and the digits blink in order to draw the driver's attention. Press the mode switch if you wish to return to the mode that was selected before the warning occurred. The dte mark (dte) will remain blinking until the vehicle is refueled.

When the fuel level drops even lower, the dte display will change to (----).

NOTE:

- If the amount of fuel added while the ignition switch is OFF is small, the display just before the ignition switch is turned OFF may continue to be displayed.
- When driving uphill or rounding curves, the fuel in the tank shifts, which may momentarily change the display.

Average fuel consumption (mpg or I/100km)

The average fuel consumption mode shows the average fuel consumption since the last reset. Resetting is done by pressing the mode switch for more than approximately 1 second. The display is updated every 30 seconds. At about the first 1/3 miles (500 m) after a reset, the display shows (----).

Average speed (mph or km/h)

The average speed mode shows the average vehicle speed since last reset. Resetting is done by pressing the mode switch for more than approximately 1 second. The display is updated every 30 seconds. The first 30 seconds after a reset, the display shows (----).

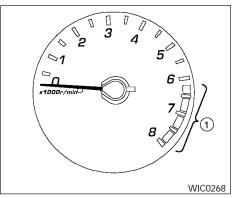
Journey time

The journey time mode shows the time since the last reset. The displayed time can be reset by pressing the mode switch for more than approximately 1 second.

NOTE:

If a low temperature warning and low range warning occur simultaneously, other display modes switch automatically to the outside temperature display.

When the mode switch is pushed, the display switches to the mode chosen before the warning display, and the outside air temperature indicator marked ICY will blink.



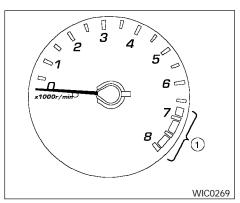
Type A

TACHOMETER

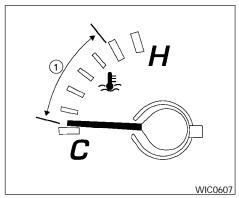
The tachometer indicates engine speed in revolutions per minute (r/min). Do not rev engine into the red zone (1).

ACAUTION

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



Type B



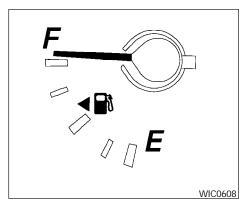
ENGINE COOLANT TEMPERATURE GAUGE

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

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

A CAUTION

If the gauge indicates engine coolant temperature over the normal range, stop the vehicle as soon as safely possible. If the engine is overheated, continued operation of the vehicle may seriously damage the engine. See "If your vehicle overheats" in the "In case of emergency" section for immediate action required.



FUEL GAUGE

The gauge indicates the **approximate** fuel level in the tank.

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

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

The low fuel warning light comes on when the amount of fuel in the tank is getting low.

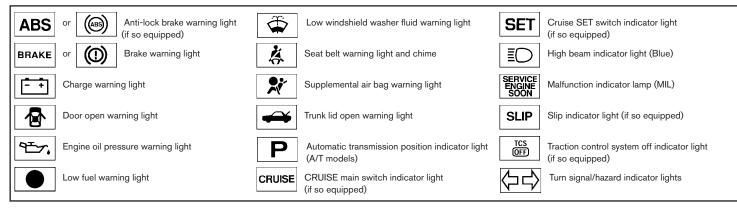
Refill the fuel tank before the gauge registers E (Empty).

The Indicates that the fuel filler lid is located on the driver's side of the vehicle.

A CAUTION

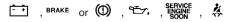
- If the vehicle runs out of fuel, SERVICE the ENGINE malfunction indicator lamp SOON (MIL) may come on. Refuel as soon as possible. After a few driving trips, SERVICE the ENGINE lamp should turn off. If the SOON lamp remains on after a few driving trips, have the vehicle inspected by a NISSAN dealer.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

WARNING/INDICATOR LIGHTS AND **AUDIBLE REMINDERS**



CHECKING BULBS

With all doors closed, apply the parking brake and turn the ignition key to the ON position without starting the engine. The following lights will come on:



The following lights come on briefly and then go off:

ABS or (B) , TCS SLIP

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.

WARNING LIGHTS





Anti-lock brake warning light (if so equipped)

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

Turn off the engine, and start it again by slowly turning the ignition key (quickly doing so may cause the ABS light to stay on when there is nothing wrong). If the light stays on, have the system checked by a NISSAN dealer.

If an abnormality occurs in the system, the antilock function ceases, but the regular braking system continues to operate.

If the light comes on while you are driving, contact a NISSAN dealer for repair.

BRAKE

Brake warning light

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

When the ignition key is in the ON position, the light comes on when the parking brake is applied, and also 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 "Maintenance and do-it-yourself" section of this manual.
- 2. If the brake fluid level is correct, have the brake system checked by a NISSAN dealer.

AWARNING

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

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



Charge warning light

If this light comes on while the engine is running, it may indicate the charging system is not functioning properly. Turn the engine off and check the generator belt. If the belt is loose, broken, missing, or if the light remains on, see a NISSAN dealer immediately.

A CAUTION

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



Door open warning light

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



Engine oil pressure warning

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 a NISSAN dealer or other authorized repair shop.

The engine oil pressure warning light is not designed to indicate a low oil level. Use the dipstick to check the oil level. See "Engine oil" in the "Maintenance and do-it-yourself" section of this manual.

A CAUTION

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



Low fuel warning light

This light comes on when the fuel level in the fuel tank is getting low. Refuel as soon as it is convenient, preferably before the fuel gauge reaches E (Empty). There will be a small reserve of fuel in the tank when the fuel gauge needle reaches E (Empty).



Low windshield washer fluid warning light

This light comes on when the windshield washer fluid is at a low level. Add windshield washer fluid as necessary. See the "Maintenance and do-itvourself" section of this manual.



Seat belt warning light and chime

The light and chime remind you to fasten your seat belts. The light illuminates whenever the ignition key is turned to the ON or START position and remains illuminated until the driver's seat belt is fastened. At the same time, the chime sounds for about 7 seconds unless the driver's seat belt is securely fastened.

Refer to "Seat belts" in the "Safety-Seats, seat belts and supplemental air bags" section for precautions on seat belt usage.



Supplemental air bag warning

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

If any of the following conditions occur, the supplemental front air bag, supplemental side air bag (if so equipped), curtain side-impact air bags (if so equipped), and pre-tensioner seat belt systems need servicing and your vehicle must be taken to a NISSAN dealer:

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

Unless checked and repaired, the supplemental restraint system (air bag system) and/or the pretensioner seat belts may not function properly. For additional details see "Supplemental restraint system" in the "Seats, restraints and supplemental air bag systems" section of this manual.

WARNING

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



Trunk lid open warning light

This light comes on when the trunk lid is not securely closed while the ignition key is in the ON position.

INDICATOR LIGHTS



Automatic transmission position indicator light (A/T models)

When the ignition key is turned to the ON position, this indicator light shows the automatic transmission selector lever position. See "Driving the vehicle" in the "Starting and driving" section of this manual.

CRUISE Cruise main switch indicator light (if so equipped)

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

Cruise set switch indicator light (if so equipped)

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



High beam indicator light (Blue)

This blue light comes on when the headlight high beams are on and goes out when the low beams are selected.

The high beam indicator light also comes on when the passing signal is activated.



Malfunction indicator lamp (MIL)

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

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

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

Operation

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

- Malfunction indicator lamp on steady An emission control system malfunction has been detected. Check the fuel filler cap. If the fuel filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The SHOWNE lamp should turn off after a few driving trips. If the SHOWNE lamp does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer. You do not need to have your vehicle towed to the dealer.
- Malfunction indicator lamp blinking An engine misfire has been detected which may damage the emission control system. To reduce or avoid emission control system damage:
 - do not drive at speeds above 45 MPH (72 km/h).
 - avoid hard acceleration or deceleration.
 - avoid steep uphill grades.
 - if possible, reduce the amount of cargo being hauled or towed.

The malfunction indicator lamp may stop blinking and come on steady. Have the vehicle inspected by

a NISSAN dealer. You do not need to have your vehicle towed to the dealer.

CAUTION

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

SLIP

Slip indicator light (if so equipped)

This indicator light will blink when the traction control system is limiting wheel spin. Slippery road conditions may exist if the slip indicator blinks on. If this happens, adjust your driving accordingly.

The slip indicator light also comes on when you turn the ignition key to the ON position. The light will turn off after about 2 seconds if the system is operational. If the light does not come on or go off, have the traction control system checked by a NISSAN dealer.

The system operates in all transmission shift lever positions, but the system can upshift the transmission only as high as the indicated shift lever position.

SECURITY SYSTEMS



Traction control system off indicator light (if so equipped)

This indicator light comes on when the traction control off switch is pushed to OFF. This indicates the traction control system is not operating.

Push the traction control off switch again or restart the engine and the system will operate normally. See "Traction control system (TCS)" in the "Starting and driving" section of this manual.

The traction control light also comes on when you turn the ignition key to the ON position. The light will turn off after about 2 seconds if the traction control system (TCS) is operational. If the light stays on or comes on along with the SLIP indicator light while you are driving, have the traction control system checked by a NISSAN dealer.

While the traction control system is operating, you might feel slight vibration or hear the system working when starting the vehicle or accelerating, but this is normal.



Turn signal/hazard indicator lights

The appropriate light flashes when the turn signal switch is activated.

Both lights flash when the hazard switch is turned on.

AUDIBLE REMINDERS Brake pad wear warning

The disc brake pads have audible wear warnings. When a brake pad requires replacement, it makes 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.

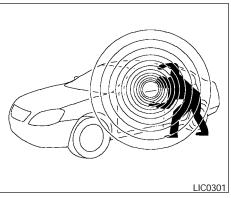
Key reminder chime

A chime sounds if the driver's door is opened while the key is left in the ignition switch. Remove the key and take it with you when leaving the vehicle.

Light reminder chime

With the ignition switch in the OFF position, a chime sounds when the driver's door is opened if the headlights or parking lights are on.

Turn the headlight control switch off before leaving the vehicle.



Your vehicle has two types of security systems:

- Vehicle security system (if so equipped)
- NISSAN Vehicle Immobilizer System—NVIS

VEHICLE SECURITY SYSTEM (if so equipped)

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

How to arm the vehicle security system

 Close all windows. (The system can be armed even if the windows are open.)

Instruments and controls 2-13

- 2. Remove the key from the ignition switch.
- Close the trunk lid and all doors. Lock all doors. The doors can be locked with the key, power door lock switch (if the door is opened, locked, and then closed) or with the keyfob.

Keyfob operation:

- Push the button on the keyfob.
 All doors lock. The hazard lights flash
 twice and the horn beeps once to indicate
 all doors are locked.
- When the button is pushed with all doors locked, the hazard lights flash twice and the horn beeps once as a reminder that the doors are already locked.

The horn may or may not beep. Refer to "Silencing the horn beep feature" later in this section.

- 4. Confirm that the SECURITY indicator light comes on. The SECURITY light stays on for about 30 seconds. The vehicle security system is now pre-armed. After about 30 seconds the vehicle security system automatically shifts into the armed phase. The SECURITY light begins to flash once every 3 seconds. If, during the 30-second pre-arm time period, the door is unlocked by the key or the keyfob, or the ignition key is turned to ACC or ON, the system will not arm.
- If the key is turned slowly when locking the door, the system may not arm. Furthermore, if the key is turned beyond the vertical position toward the unlock position to remove the key, the system may be disarmed 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 arm with all doors and trunk lid closed and locked with the ignition key in the OFF position.

Vehicle security system activation

The vehicle security system will give the following alarm:

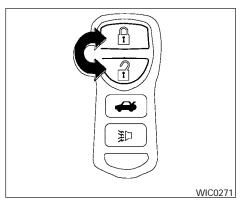
- The headlights blink and the horn sounds intermittently.

The alarm is activated by:

 opening the door or trunk lid without using the key or keyfob (even if the door is unlocked by releasing the door inside lock switch).

How to stop an activated alarm

The alarm stops only by unlocking a door or the trunk lid with the key, or by pressing the button on the keyfob.



Silencing the horn beep feature

If desired, the horn beep feature can be deactivated using the keyfob.

To deactivate: Press and hold both the and in buttons at the same time for at least 2 seconds.

The hazard lights will quickly flash 3 times to confirm that the horn beep feature has been deactivated.

To activate: Press and hold both the buttons at the same time for at least 2 seconds once more.

The hazard lights will quickly flash once and the horn will sound once to confirm that the horn beep feature has been reactivated.

Deactivating the horn feature does not silence the horn if the alarm is triggered.

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

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS)

The NISSAN Vehicle Immobilizer System (NVIS) will not allow the engine to start without the use of a registered NVIS key.

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

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

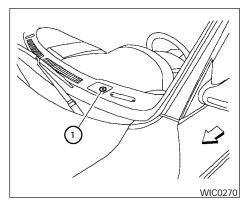
If the no start condition re-occurs, NISSAN recommends placing the registered NVIS key on a separate key ring to avoid interference from other devices.

Statement related to Section 15 of FCC Rules for NISSAN Vehicle Immobilizer System (CONT ASSY - IMMOBILIZER, ANT ASSY — IMMOBILIZER)

This device complies with part 15 of the FCC Rules and RSS-210 of Industry Canada. Operation is subject to the following two conditions:

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

CHANGES OR MODIFICATIONS NOT EX-PRESSLY APPROVED BY THE MANUFAC-TURER FOR COMPLIANCE COULD VOID THE USER'S AUTHORITY TO OPERATE THE EQUIPMENT.



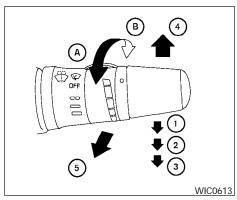
Security indicator light (NISSAN Vehicle Immobilizer System)

The security indicator light ① is located on the instrument panel near the windshield.

The security indicator light blinks every 3 seconds whenever the ignition switch is in the LOCK, OFF or ACC position. This function indicates the NISSAN Vehicle Immobilizer System (NVIS) is operational.

If the NVIS is malfunctioning, the light will remain on while the ignition key is in the ON position. If the light still remains on and/or the engine will not start, see a NISSAN dealer for NVIS service as soon as possible. Please bring all NVIS keys that you have when visiting your NISSAN dealer for service.

WINDSHIELD WIPER AND WASHER SWITCH



SWITCH OPERATION

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

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

- Intermittent intermittent operation can be adjusted by turning the knob toward (Slower) or (B) (Faster).
- 2 Low continuous low speed operation
- 3 High continuous high speed operation

Push the lever up 4 to have one sweep operation of the wiper.

Pull the lever toward you (5) to operate the washer. The wiper will also operate several times.

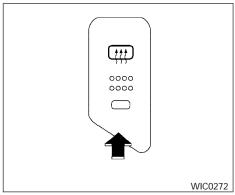
AWARNING

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

ACAUTION

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

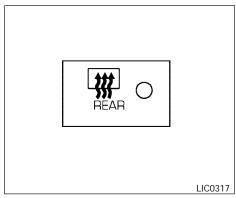
REAR WINDOW AND OUTSIDE MIRROR (if so equipped) **DEFROSTER SWITCH**



Type A

To defrost the rear window glass and outside mirrors (if so equipped), start the engine and push the rear window defroster switch on. The rear window defroster indicator light on the switch comes on. Push the switch again to turn the defroster off.

The rear window defroster automatically turns off after approximately 15 minutes.



Type B

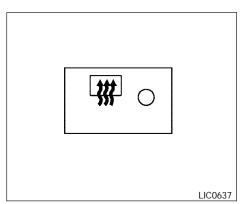
A CAUTION

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

NOTE:

The top few rows of wires on the rear window are not part of the rear window defroster system. These wires make up the antenna for the audio system.

HEADLIGHT AND TURN SIGNAL SWITCH



Type C

XENON HEADLIGHTS (if so equipped)

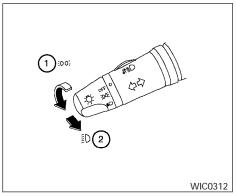
▲ WARNING **↑** HIGH VOLTAGE

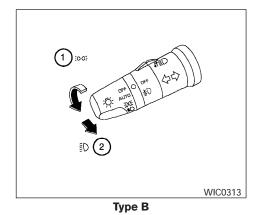
- When xenon headlights are on, they produce a high voltage. To prevent an electric shock, never attempt to modify or disassemble. Always have your xenon headlights replaced at a NISSAN dealer.
- Xenon headlights provide considerably more light than conventional headlights. If they are not correctly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

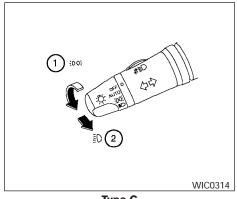
When the xenon headlight is initially turned on, its brightness or color varies slightly. However, the color and brightness will soon stabilize.

 The life of xenon headlights will be shortened by frequent on-off operation. It is generally desirable not to turn off the headlights for short intervals

- (for example, when the vehicle stops at a traffic signal). Even when the daytime running lights are active (Canada only), the xenon headlights do not turn on. This way the life of the xenon headlights is not reduced.
- If the xenon headlight bulb is close to burning out, the brightness will drastically decrease, the light will start blinking, or the color of the light will become reddish. If one or more of the above signs appear, contact a NISSAN dealer.





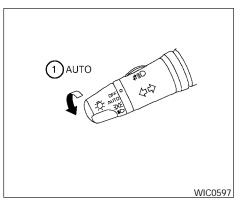


Type A **HEADLIGHT CONTROL SWITCH**

Lighting

- When turning the switch to the EDGE position, the front parking, tail, license plate and instrument panel lights come on.
- 2 When turning the switch to the tion, the headlights come on and all the other lights remain on.

Type C



Autolight system (if so equipped)

The autolight system allows the headlights to be set so they turn on and off automatically. The autolight system can:

Turn on the headlights automatically when it is dark.

See your NISSAN dealer to have the autolight activation sensitivity setting adjusted.

- Turn off the headlights when it is light.
- Keep the headlights on for up to 180 seconds after you turn the key to OFF, open and

close the driver's or passenger's door, and then close all doors.

The default time delay for autolight shutoff is 45 seconds. See your NISSAN dealer to have the time delay setting adjusted.

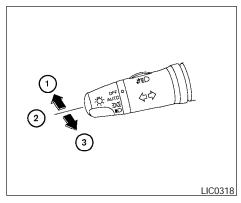
If the ignition switch is turned OFF and one of the doors is opened, the headlights remain ON for 5 minutes.

To set the autolight system:

- 1. Make sure the headlight switch is in the AUTO position ①.
- 2. Turn the ignition key to ON.
- 3. The autolight system automatically turns the headlights on and off.

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

Be sure you do not put anything on top of the autolight sensor located in the top driver side of the instrument panel. The autolight sensor controls the autolight; if it is covered, the autolight sensor reacts as if it is dark out and the headlights will illuminate. If this occurs while parked with the engine off and the key in the ON position, your vehicle's battery could become discharged.



Headlight beam select

- To select the high beam function, push the lever forward. The high beam lights come on and the Dight illuminates.
- Pull the lever back to select the low beam.
- ③ Pulling and releasing the lever flashes the headlight high beams on and off.

Battery saver system

If the ignition switch is turned OFF while the headlight switch is in the ₹DQ₹ or ₱○ position, the headlights will turn off after 5 minutes.

A CAUTION

- Be sure to turn the light switch to the OFF position when you leave the vehicle for extended periods of time, otherwise the battery will go dead.
- Never leave the light switch on when the engine is not running for extended periods of time even if the headlights turn off automatically.

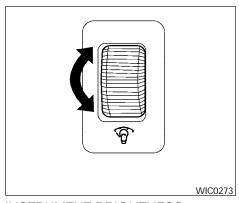
DAYTIME RUNNING LIGHT SYSTEM (Canada only)

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

If the parking brake is applied before the engine is started, the daytime running lights do not illuminate. The daytime running lights illuminate when the parking brake is released. The daytime running lights will remain on until the ignition switch is turned off.

WARNING

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



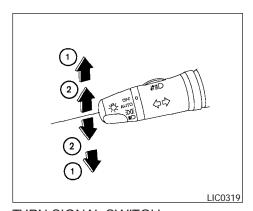
INSTRUMENT BRIGHTNESS CONTROL

The instrument cluster illuminates when the ignition switch is in ON position.

The instrument brightness control operates when the headlight control switch is in the AUTO, EDGE or position.

Turn the control to adjust the brightness of instrument panel lights when driving at night.

The instrument brightness control will not adjust the brightness when the headlights or parking lights are off.



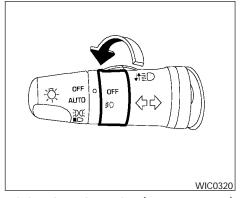
TURN SIGNAL SWITCH

Turn signal

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

Lane change signal

To signal a lane change, move the lever up or down to the point where the indicator light begins to flash, but the lever does not latch.



FOG LIGHT SWITCH (if so equipped)

Headlight switch in the AUTO position; daytime operation

- Fog lights, marker and taillights come ON.
- Headlights do not come ON.
- Dash readouts dim unless the dimmer switch is on full bright.
- If the ignition switch is in the OFF position with the fog lights turned ON, a warning chime will sound indicating the fog lights

were left ON. The fog lights will be turned OFF by the Battery Saver function approximately 5 minutes after the last door is closed.

 If the ignition switch is turned to the ON position after the fog lights were turned OFF by the Battery Saver function, the fog lights will immediately come back ON.

Headlight switch in the AUTO position; nighttime operation

- Fog lights, marker and taillights come ON.
- Headlights come ON.

The lights can be adjusted to turn ON in brighter or dimmer environments. See your NISSAN dealer to have the sensitivity setting adjusted.

- Dash readouts dim unless the dimmer switch is on full bright.
- If the ignition switch is in the OFF position with the fog lights turned ON, the fog lights will be turned OFF by the Twilight Sentinel function approximately 45 seconds after the last door is closed.

The default setting is 45 seconds. See your NISSAN dealer to have this time adjusted up to 180 seconds.

- If any door is opened when the ignition switch is in the OFF position, the Twilight Sentinel function operates for approximately 5 minutes. After approximately 5 minutes, the lights will turn OFF due to the Battery Saver function.
- If the ignition switch is turned to the ON position after the fog lights were turned OFF by the Twilight Sentinel function, the fog lights and the headlights will come ON together when the Auto Light Sensor determines it is dark enough. The fog lights will now operate independently of the headlights only if the headlight switch is turned OFF.
- When the high beams are turned ON, the fog lights will turn OFF. The fog lights will come back ON when the high beams are turned OFF.

Headlights turned ON and OFF by the driver (no AUTO headlight function); day or nighttime operation

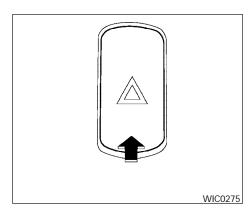
 Same operation as "Headlight switch in the AUTO position; daytime operation" described above.

Some of the Battery Saver and Twilight Sentinel functions can be turned ON and OFF or adjusted. Please see your NISSAN dealer if you have any questions.

To turn the fog lights OFF, turn the switch to the OFF position.

The fog lights automatically turn off whenever the high beam headlight function is selected.

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 flash.

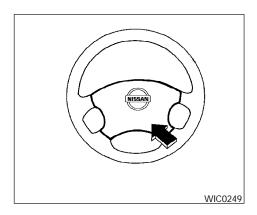
AWARNING

- If stopping for an emergency, be sure to move the vehicle well off the road.
- Do not use the hazard warning flashers while moving on the highway unless unusual circumstances force you to drive so slowly that your vehicle might become a hazard to other traffic.

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

The flashers will operate with the ignition switch in any position.

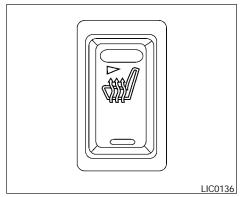
Some state laws may prohibit the use of the hazard warning flasher switch while driving.



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

AWARNING

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



The front seats are warmed by built-in heaters (if so equipped). The switches are located on the center console.

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

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

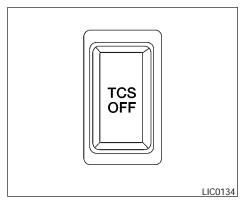
When the seat is warmed or before you leave the vehicle, be sure to turn the switch off.

A CAUTION

- Do not use the seat heater for extended periods or when no one is using the seat.
- Do not put anything on the seat which insulates heat, such as a blanket, cushion, seat cover, etc. Otherwise, the seat may become overheated.
- Do not place anything hard or heavy on the seat or pierce it with a pin or similar object. This may result in damage to the heater.
- Any liquid spilled on the heated seat should be removed immediately with a dry cloth.
- When cleaning the seat, never use gasoline, 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 NISSAN dealer.

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

TRACTION CONTROL SYSTEM (TCS) OFF SWITCH (if so equipped)



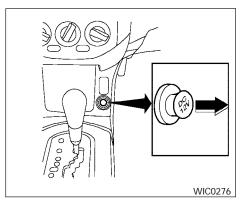
The vehicle should be driven with the Traction Control System (TCS) on for most driving conditions.

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

To turn off the TCS, push the TCS OFF switch. The OFF indicator will come on.

Push the "TCS OFF" switch again or restart the engine and the system will operate normally. See "Traction control system (TCS)" in the "Starting and driving" section.

POWER OUTLET

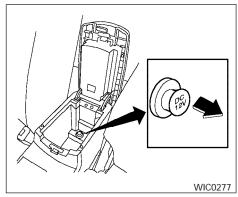


Instrument panel

The power outlets are for powering electrical accessories such as cellular telephones. They are rated at 12 volt, 120W (10A) maximum.

ACAUTION

- The outlet and plug may be hot during or immediately after use.
- This power outlet is not designed for use with a cigarette lighter unit.
- Do not use with accessories that exceed a 12 volt, 120W (10A) power draw.
 Do not use double adapters or more than one electrical accessory.

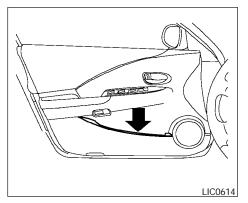


Console

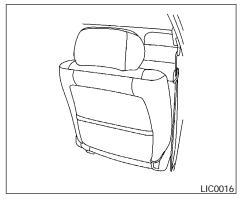
- Use this power outlet with the engine running. (If the engine is stopped, this could result in a discharged battery.)
- Avoid using when the air conditioner, headlights or rear window defroster is on.
- Before inserting or disconnecting a plug, be sure the electrical accessory being used is turned OFF.

- Push the plug in as far as it will go. If good contact is not made, the plug may overheat or the internal temperature fuse may blow.
- When not in use, be sure to close the cap. Do not allow water to contact the outlet.

STORAGE

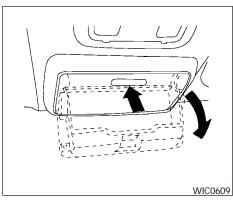


MAP POCKETS



SEATBACK POCKETS (if so equipped)

The seatback pockets are located on the back of the driver's and passenger's seats. The pockets can be used to store maps.



SUNGLASSES HOLDER

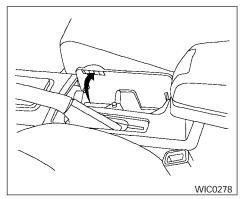
To open the sunglasses holder, push and release.

AWARNING

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

ACAUTION

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



Front

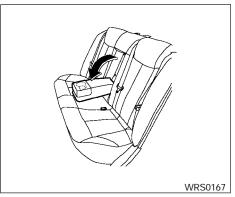
CUP HOLDERS

To open the front cup holders, lift the lid. To close, lower the lid.

The cup holder insert can be used for holding smaller cups and has a different size on each end. With the desired size facing up, push the cup holder insert down into the cup holder to secure it tightly before use.

The rubber inserts may be removed for cleaning.

The rear cup holders are located in the fold-down armrest in the rear seat back.



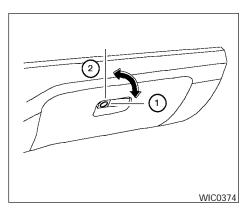
Rear

AWARNING

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

A CAUTION

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



GLOVE BOX

Open the glove box by pulling the handle. Use the master key when locking (1) or unlocking (2) the glove box. The valet key cannot be used to lock or unlock the glove box.

WARNING

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

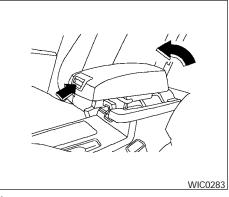
CONSOLE BOX

AWARNING

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

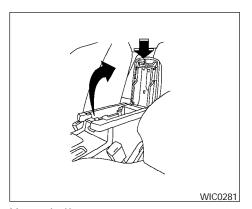
A CAUTION

- This power outlet is not designed for use with a cigarette lighter unit.
- Do not use accessories that exceed 12 volt, 120W (10A) power draw. Do not use double adapters or more than one electrical accessory.



Armrest

Push the button to elevate the armrest. To return armrest to regular position, push armrest rearward until locked.



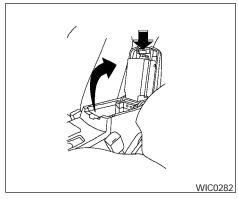
Upper half

Pull up on the lever to open the upper half of the console box. The felt mat may be removed for cleaning.

The upper half of the console box may be used for storage of cellular phones. An access hole is provided at the bottom of the upper half of the console box for phone cord routing to the power outlet.

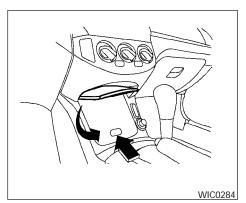
To route a phone cord to the power outlet:

- 1. Open the upper half of the console box.
- 2. Remove the felt mat, and then remove the cutout area from the mat.
- 3. Remove the access hole cover.
- 4. Install the felt mat.
- 5. Route the phone cord through the access hole and plug into the power outlet.



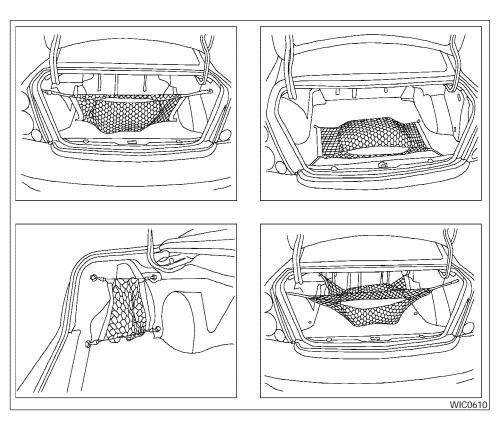
Lower half

Pull up on the lever to open the lower half of the console box. A power outlet is located inside the console box and there is storage for compact discs.



COVERED STORAGE BOX

Push the bottom center of the lid to open.



Instruments and controls 2-31

WINDOWS

CARGO NET (if so equipped)

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

To install the cargo net, attach the hooks to the retainers.

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

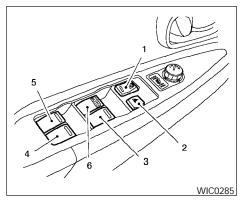
A WARNING

- Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. In a sudden stop or collision. unsecured cargo could cause personal injury.
- Be sure to secure all four hooks into the retainers. The cargo restrained in the net must not exceed 30 lbs. (13.6 kg) or the net may not stay secured.

POWER WINDOWS

AWARNING

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



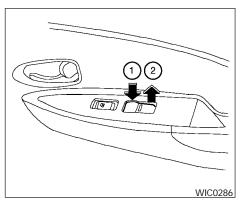
- Door lock/unlock button 1
- Window lock button 2.
- Front passenger side (automatic switch, if so equipped)
- Right rear passenger side
- Left rear passenger side
- Driver side automatic switch

Driver's side power window switch

The driver's side control panel is equipped with switches to open or close all of the windows.

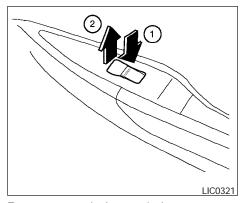
The power windows operate when the ignition switch is in the ON position, or for about 45 seconds after the ignition switch is turned to the

OFF position. If the driver's or passenger's door is opened during this period of about 45 seconds, power to the windows is canceled. To open a window, push the switch and hold it down. To close a window, pull the switch up. To stop the opening or closing function at any time, simply release the switch.



Front passenger power window switch

The passenger window switch operates only the corresponding passenger window. To open the window, push the switch and hold it down (1). To close the window, pull the switch up (2).



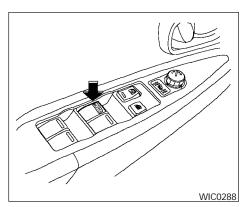
Rear power window switch

The rear passenger window switches open or close only the corresponding passenger window. To open the window, push the switch and hold it down (1). To close the window, pull the switch up

Locking passengers' windows

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

SUNROOF (if so equipped)



Automatic operation

To fully open a window equipped with automatic operation, press the window switch down (only driver's side shown) to the second detent and release it: it need not be held. The window automatically opens all the way. To stop the window, lift the switch up while the window is opening.

To fully close a window equipped with automatic operation, pull the switch up to the second detent and release it; it need not be held.

Auto-reverse function

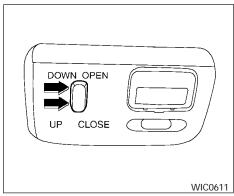
If the control unit detects something caught in the window as it is closing, the window will be immediately lowered.

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

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

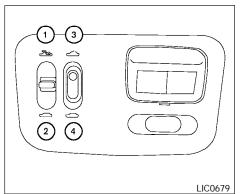
AWARNING

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



Type A **AUTOMATIC SUNROOF**

The sunroof will only operate when the ignition key is in the ON position. The automatic sunroof is operational for about 45 seconds, even if the ignition key is turned to the ACC or OFF position. If the driver's door or the front passenger's door is opened during this period of about 45 seconds, power to the sunroof is canceled.



Type B

Sliding the sunroof

Type A

To open the sunroof, push and hold the switch toward DOWN/OPEN. Release the switch when the sunroof is in the desired position.

To close the sunroof, push and hold the switch toward UP/CLOSE until the sunroof is fully closed.

Type B

To fully open the sunroof, push the switch toward the $\stackrel{\sim}{\sim}$ position ①.

To fully close the sunroof, push and hold the switch toward the \bigcirc position ②.

Tilting the sunroof

Type A

To tilt the sunroof up, first close the sunroof by pushing the switch toward UP/CLOSE. Release the switch, then push the switch toward UP/CLOSE. The sunroof will tilt up.

To tilt the sunroof down, push the switch toward DOWN/OPEN.

Type B

To tilt the sunroof up, push the tilt switch toward the \hookrightarrow position 3.

To tilt the sunroof down, push and hold the tilt switch toward the $\ \ \ \$ position $\ \ \ \$

AWARNING

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

A CAUTION

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

Restarting the sunroof sliding switch

The sliding switch will become inoperable after the battery terminal is disconnected, the electrical supply interrupted and/or some abnormality detected. Use the following reset procedure to return sunroof operation to normal.

Type A

 From any sunroof position (full open, partially open, closed, partially vented or vented), push and hold the button in the forward position until the sunroof vents in the full-up position.

The sunroof should now operate normally.

Type B

From any sunroof position (full open, partially open, closed, partially vented or vented), push and hold the tilt switch toward the position (3) until the sunroof vents in the full-up position.

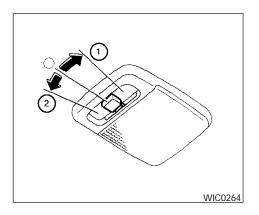
The sunroof should now operate normally.

Instruments and controls 2-35

INTERIOR LIGHT

Sun shade

Open and close the sun shade by sliding it forward or backward.



The interior light has a three-position switch and operates regardless of ignition switch position.

When the switch is in the ON position (1), the interior lights illuminate, regardless of door position. The lights will go off after about 30 minutes unless the ignition key is in the ACC or ON position.

When the switch is in the center O position, the interior lights will stay on for about 30 seconds when:

• The doors are unlocked by the keyfob, a key or the power door lock switch while all doors

are closed and the ignition switch is in the OFF position.

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

The lights will turn off while the 30 second timer is activated when:

- The driver's door is locked by the keyfob, a key, or the power door lock switch.
- The ignition switch is turned ON.

When the switch is in the OFF position (2), the interior lights do not illuminate, regardless of door position.

The lights will turn off automatically after 30 minutes while doors are open to prevent the battery from becoming discharged.

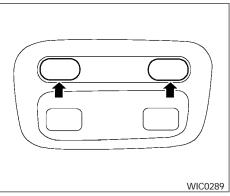
MAP LIGHTS

NOTE:

The door step lights illuminate when the driver and passenger doors are open regardless of the interior light switch position. These lights will turn off automatically after about 30 minutes while doors are open to prevent the battery from becoming discharged.

A CAUTION

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

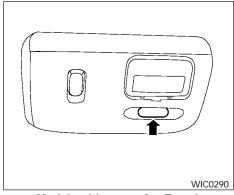


Models without sunroof

To turn the map lights on, press the switches. To turn them off, press the switches again.

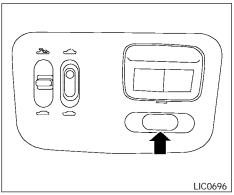
A CAUTION

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



Models with sunroof — Type A

TRUNK LIGHT



Models with sunroof — Type B

The light illuminates when the trunk lid is opened. When the trunk lid is closed, the light goes off. For bulb replacement procedures, refer to "Bulb replacement" in the "Maintenance and do-ityourself" section of this manual.

HOMELINK® UNIVERSAL TRANSCEIVER (if so equipped)

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

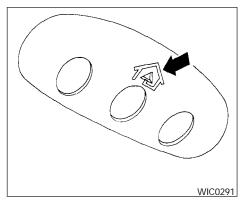
HomeLink® Universal Transceiver:

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

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

WARNING

- Do not use the HomeLink® Universal Transceiver with any garage door opener that lacks safety stop and reverse features as required by federal safety standards. (These standards became effective for opener models manufactured after April 1, 1982), A garage door opener which cannot detect an object in the path of a closing garage door and then automatically stop and reverse, does not meet current federal safety standards. Using a garage door opener without these features increases the risk of serious injury or death.
- During the programming procedure your garage door or security gate will open 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 the HomeLink® Universal Transceiver.



PROGRAMMING HOMELINK®

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

3. Using both hands, simultaneously push the hand-held transmitter button and the desired Homel ink® button. Do not release the buttons until step 4 has been completed.

NOTE:

Some garage door openers may require the procedures noted under "Canadian Programming."

4. The HomeLink® indicator will flash, first slowly and then rapidly. When the indicator light flashes rapidly, both buttons may be released. The rapid flashing light indicates the HomeLink® Universal Transceiver has been successfully programmed.

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

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

PROGRAMMING HOMELINK® FOR CANADIAN CUSTOMERS

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

NOTE:

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

OPERATING THE HOMELINK® UNIVERSAL TRANSCEIVER

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

PROGRAMMING TROUBLE-DIAGNOSIS

If the HomeLink® does not quickly learn the handheld transmitter information:

- replace the hand-held transmitter batteries with new batteries.
- position the hand-held transmitter with its battery area facing away from the Homel ink® surface.
- press and hold both the HomeLink® and hand-held transmitter buttons without interruption.
- position the hand-held transmitter 1 3 inches (26 - 76 mm) away from the Homel ink® surface. Hold the transmitter in that position for up to 15 seconds. If HomeLink® is not programmed within that time, try holding the transmitter in another position - keeping the indicator light in view at all times.

If you continue to have programming difficulties, please contact the NISSAN Consumer Affairs Department. The phone numbers are located in the Foreword of this manual.

CLEARING THE PROGRAMMED INFORMATION

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

ROLLING CODE PROGRAMMING

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

- Reference the garage door opener Owner's Manual for verification.
- The hand-held transmitter appears to program the HomeLink® Universal Transceiver but does not activate the garage door.
- Press and hold the trained Homel ink® button. If the garage door opener has the rolling code feature, the HomeLink® indicator light will flash rapidly, then remains on after 2 seconds.

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

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

NOTE:

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

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

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

REPROGRAMMING A SINGLE HOMELINK® BUTTON

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

- 1. Press and hold the desired Homel ink® button. Do not release the button until step 4 has been completed.
- 2. When the indicator light begins to flash slowly (after 20 seconds), position the hand-held transmitter 1 - 3 inches (26 - 76 mm) away from the HomeLink® surface.
- 3. Press and hold the hand-held transmitter button.
- 4. The HomeLink® indicator light will flash, first slowly and then rapidly. When the indicator light begins to flash rapidly, release both buttons.

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

IF YOUR VEHICLE IS STOLEN

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

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

FCC Notice:

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

This 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. CV2V67690

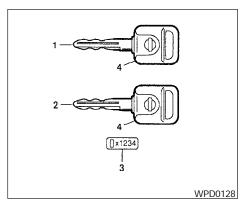
MEMO

3 Pre-driving checks and adjustments

Keys
Nissan vehicle immobilizer system (NVIS)
keys 3-2
Doors
Locking with key3-3
Locking with inside lock knob
Locking with power door lock switch 3-4
Child safety rear door lock
Remote keyless entry system (if so equipped)3-5
How to use remote keyless entry system 3-6
Battery replacement
Hood3-10
Trunk lid
Opener operation3-11
Key operation

Interior trunk lid release3-1
Fuel filler lid
Opener operation3-1
Fuel filler cap3-1
Tilting telescopic steering column
Tilt operation
Telescopic operation
Sun visors
Vanity mirrors (if so equipped)3-1
Mirrors
Inside mirror
Automatic anti-glare inside mirror
(if so equipped)
Outside mirrors

KEYS



- Two master keys (black) with transponder chip and chrome NISSAN brand symbol on one side
- 2. Valet key (black) with transponder chip
- 3. Key number plate
- 4. Transponder chip

A key number plate is supplied with your keys. Record the key number and keep it in a safe place (such as your wallet), not in the vehicle. If you lose your keys, see a NISSAN dealer for duplicates by using the key number. NISSAN 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, your NISSAN dealer can duplicate it.

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS) KEYS

You can only drive your vehicle using the master or valet keys which are registered to the NISSAN Vehicle Immobilizer System components in your vehicle. These keys have a transponder chip in the key head.

The master key can be used for all the locks.

The valet key cannot be used for the trunk lid, glove box lock or rear seatback lock.

To protect belongings when you leave a key with someone, give them the valet key only.

Never leave these keys in the vehicle.

Additional or replacement keys:

If you still have a key, the key number is not necessary when you need extra NISSAN Vehicle Immobilizer System keys. Your dealer can duplicate your existing key. As many as five NVIS keys can be used with one vehicle. You should bring all NVIS keys that you have to your NISSAN dealer for registration. This is because the registration process will erase the memory of all key codes

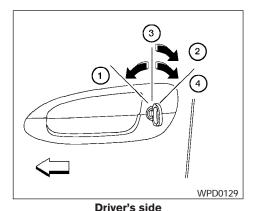
previously registered into the NISSAN Vehicle Immobilizer System. After the registration process, these components will only recognize keys coded into the NISSAN Vehicle Immobilizer System (NVIS) during registration. Any key that is not given to your dealer at the time of registration will no longer be able to start your vehicle.

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

DOORS

AWARNING

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



LOCKING WITH KEY

The power door lock system allows you to lock or unlock all doors at the same time.

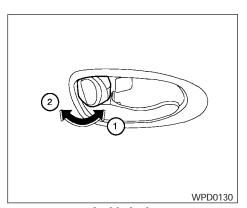
Turning the key toward the front (1) of the vehicle locks all doors.

Turning the key one time toward the rear (2) of the vehicle unlocks that door. From that position, returning the key to neutral (3) (where the key can only be removed and inserted) and turning it toward the rear again within 5 seconds unlocks all doors (4).

Opening and closing windows (if so equipped)

The driver's door key operation allows you to open and close windows equipped with automatic operation at the same time.

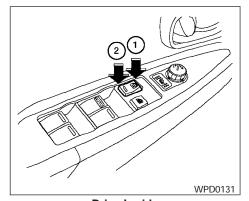
- To open the windows, turn the driver's door key toward the rear of the vehicle for longer than 1 second after the door is unlocked.
- To close the windows, turn the driver's door key to the front of the vehicle for longer than 1 second after the door is locked.



Inside lock LOCKING WITH INSIDE LOCK **KNOB**

To lock the door without the key, move the inside lock to the lock position (1), then close the door.

To unlock the door without the key, move the inside lock knob to the unlock position 2.



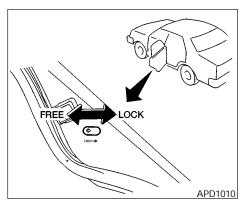
Driver's side LOCKING WITH POWER DOOR LOCK SWITCH

To lock all the doors without a key, push the door lock switch (driver or front passenger side), to the lock position 1. When locking the door this way, be certain not to leave the key inside the vehicle.

To unlock all the doors without a key, push the door lock switch (driver or front passenger side) to the unlock position (2).

Lockout protection

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



CHILD SAFETY REAR DOOR LOCK

Child safety locks help prevent the rear doors from being opened accidentally, especially when small children are in the vehicle.

The child safety lock levers are located on the edge of the rear doors.

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

REMOTE KEYLESS ENTRY SYSTEM (if so equipped)

It is possible to lock/unlock all doors, turn the interior light on, and activate the panic alarm by using the keyfob from outside the vehicle.

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

The keyfob can operate at a distance of approximately 33 ft (10 m) from the vehicle. The effective distance depends upon the conditions around the vehicle.

As many as 5 keyfobs can be used with one vehicle. For information concerning the purchase and use of additional keyfobs, contact a NISSAN dealer.

The keyfob will not function when:

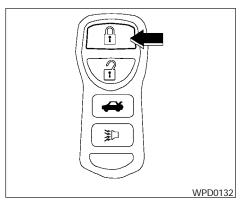
- the battery is discharged
- the distance between the vehicle and the keyfob is over 33 ft (10 m)

A CAUTION

Listed below are conditions or occurrences which will damage the keyfob:

- Do not allow the keyfob to become wet.
- Do not drop the keyfob.
- Do not strike the keyfob sharply against another object.

Do not place the keyfob for an extended period in an area where temperatures exceed 140°F (60°C).



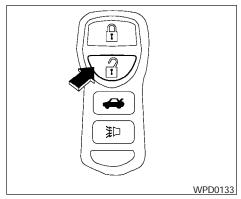
HOW TO USE REMOTE KEYLESS **ENTRY SYSTEM**

Locking doors

- 1. Close all windows
- 2. Remove the key from the ignition switch.
- 3. Close the hood, trunk lid and all doors.

- button on the keyfob. All 4. Push the the doors lock. The hazard lights flash twice and the horn beeps once to indicate all doors are locked.
- When the button is pushed with all doors locked, the hazard lights flash twice and the horn beeps once as a reminder that the doors are already locked.
- If a door is open and you push the button, the doors will lock but the horn will not beep and the hazard lights will not flash.

The horn may or may not beep once. Refer to "Silencing the horn beep feature" later in this section for details.



Unlocking doors

Push the 🗓 button on the keyfob once.

- Only the driver's door unlocks.
- The hazard indicator flashes once if all doors are completely closed with the ignition key in any position except the ON position.
- The interior light turns on and the light timer activates for 30 seconds when the switch is in the center O position with the ignition key in any position except the ON position.

Push the button on the keyfob again within 5 seconds.

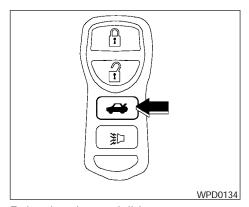
- All doors unlock.
- The hazard indicator flashes once if all doors are completely closed.

The interior lights can be turned off without waiting 30 seconds by inserting the key into the ignition and turning to the ON or START position, locking the doors with the keyfob or pushing the interior light switch to the OFF position.

Auto relock

When the button on the keyfob is pushed, all doors will lock automatically within 1 minute unless one of the following operations is performed:

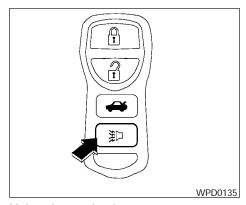
- Any door is opened.
- A key is inserted into the ignition switch and the key is turned from OFF to ON.



Releasing the trunk lid

Push the button on the keyfob for longer than 0.5 second to open the trunk lid. The trunk release button on the keyfob will not operate when the key is in the ignition switch.

The trunk lid will open when using the keyfob even if the trunk lid release cancel switch is turned to OFF. See "Trunk lid" later in this section for cancel switch information.



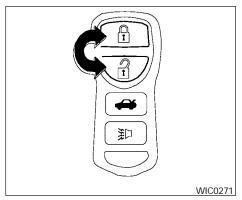
Using the panic alarm

If you are near your vehicle and feel threatened, you may activate the panic alarm to call attention by pushing and holding the D button on the keyfob for longer than 0.5 second.

The panic alarm and headlights will stay on for 25 seconds.

The panic alarm stops when:

- it has run for 25 seconds, or
- any button is pushed on the keyfob.



Silencing the horn beep feature

If desired, the horn beep feature can be deactivated using the keyfob.

To deactivate: Press and hold the and buttons for at least 2 seconds.

The hazard lights will flash three times to confirm that the horn beep feature has been deactivated.

To activate: Press and hold the and it buttons for at least 2 seconds once more.

The hazard lights will flash once and the horn will sound once to confirm that the horn beep feature has been reactivated.

3-8 Pre-driving checks and adjustments

Deactivating the horn beep feature does not silence the horn if the alarm is triggered.

Using the interior light

The interior light can be turned off without waiting 30 seconds by inserting the key into the ignition, locking the doors with the keyfob or pushing the interior light button to OFF.

Opening windows (if so equipped)

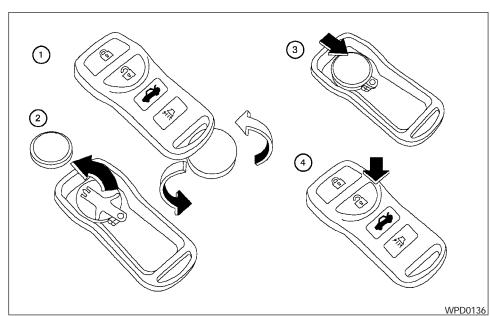
The keyfob allows you to open the front windows simultaneously.

To open the front windows, press the is button on the keyfob for longer than 3 seconds after all doors are unlocked.

The door windows will open while pressing the door button on the keyfob.

This opening windows function of the keyfob can be suspended using a CONSULT-II diagnostic tool. Please contact a NISSAN dealer.

The door windows cannot be closed by using the keyfob.



BATTERY REPLACEMENT

Replace the battery in the keyfob as follows:

- Open the lid using a coin.
- Remove the battery.

Install a new battery with the "+" facing down.

Recommended battery: Sanyo CR2025 or equivalent.

Close the lid securely.

5. Press the LOCK button, then the UNLOCK button two or three times to check the keyfob operation.

If the battery is removed for any reason other than replacement, perform step 5.

- An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.
- The kevfob is water-resistant: however, if it does get wet, immediately wipe completely dry.
- The operational range of the keyfob extends to approximately 33 ft (10 m) from the vehicle. This range may vary with conditions.

FCC Notice:

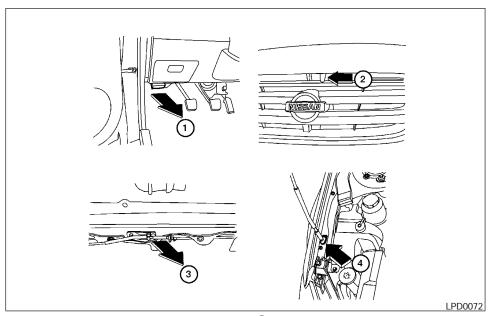
Changes or modifications not expressly approved by the manufacturer for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Pre-driving checks and adjustments 3-9

HOOD



- Pull the hood lock release handle located below the driver side instrument panel; the hood springs up slightly.
- Lift the lever at the front of the hood with your fingertips and raise the hood.
- 3 Remove the support rod from the clamp.
- 4 Insert the support rod into the slot on the passenger side fender ledge.

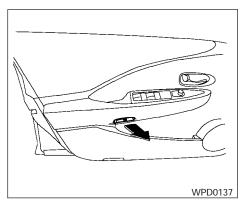
 When closing the hood, return the support rod to its original position, lower the hood to approximately 12 inches above the latch and release it. This allows proper engagement of the hood latch.

AWARNING

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

3-10 Pre-driving checks and adjustments

TRUNK LID



Driver's side **OPENER OPERATION**

AWARNING

Do not drive with the trunk lid open. This could allow dangerous exhaust gases to be drawn into the vehicle. See "Exhaust gas" in the "Starting and driving" section of this manual.

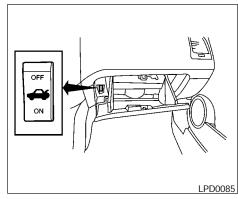
Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car kevs.

The trunk lid opener lever is located below the armrest of the driver's door trim panel. To open the trunk lid, pull the opener lever out.

To close the trunk lid, lower and push the trunk lid down securely.

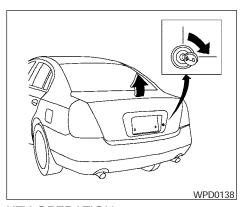
NOTE:

You cannot open the trunk lid with the trunk lid opener lever if the vehicle security system (if so equipped) is armed.



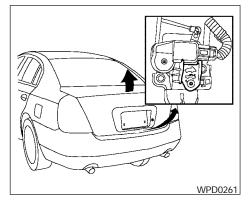
Cancel switch (if so equipped)

When the cancel switch located inside the glove box is OFF, the trunk lid cannot be opened with the trunk lid release switch. It can be opened with the master key or keyfob.



KEY OPERATION

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



INTERIOR TRUNK LID RELEASE

AWARNING

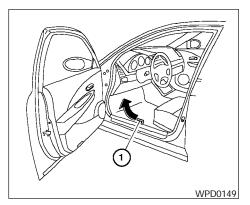
Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.

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

To open the trunk from the inside, rotate the illuminated lever until the lock releases and push up on the trunk lid. The release lever is made of a material that glows in the dark after a brief exposure to ambient light.

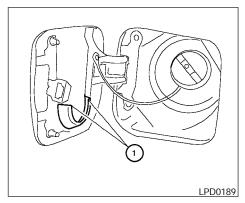
The handle is located inside the trunk compartment on the trunk lock at the center of the trunk lid.

FUEL FILLER LID



OPENER OPERATION

The fuel filler opener lever is located on the outside of the driver's seat (1). To open the fuel filler lid, pull the opener lever up. To lock, close the fuel filler lid securely.



FUEL FILLER CAP

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

AWARNING

Gasoline is extremely flammable and highly explosive under certain conditions. You could be burned or seriously injured if it is misused or mishandled. Always stop the engine and do not smoke or allow open flames or sparks near the vehicle when refueling.

- Fuel may be under pressure. Turn the cap a third of a turn, and wait for any-"hissing" sound to stop to prevent fuel from spraying out and possibly causing personal injury. Then remove the cap.
- Do not attempt to top off the fuel tank after the fuel pump nozzle shuts off automatically. Continued refueling may cause fuel overflow, resulting in fuel spray and possibly a fire.
- Use only an original equipment type fuel filler cap as a replacement. It has a built-in safety valve needed for proper operation of the fuel system and emission control system. An incorrect cap can result in a serious malfunction and possible injury. It could also cause the malfunction indicator lamp to come on.
- Never pour fuel into the throttle body to attempt to start your vehicle.
- Do not fill a portable fuel container in the vehicle or trailer. Static electricity can cause an explosion of flammable liquid, vapor or gas in any vehicle ortrailer. To reduce the risk of serious injury or death when filling portable fuel containers:
 - Always place the container on the ground when filling.

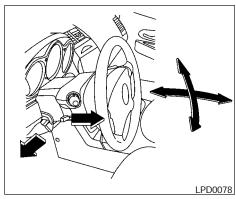
- Do not use electronic devices when filling.
- Keep the pump nozzle in contact with the container while you are filling it.
- Use only approved portable fuel containers for flammable liquid.

A CAUTION

- If fuel is spilled on the vehicle body, flush it away with water to avoid paint damage.
- Tighten until the fuel filler cap clicks. Failure to tighten the fuel filler cap properly may cause the ENGINE malfunction indicator lamp (MIL) to illuminate. If the ENGINE lamp illuminates because the fuel filler cap is loose or missing, tighten or install the cap and continue to drive the vehicle. The ENGINE lamp should turn off after a few driving trips. If the ENGINE does not turn off after a few driving trips, have the vehicle inspected by a NISSAN dealer.

 For additional information, see the "Malfunction indicator lamp (MIL)" in the "Instruments and Controls" section earlier in this manual.

TILTING TELESCOPIC STEERING COLUMN



TILT OPERATION

Pull the lock lever forward and adjust the steering wheel up or down to the desired position.

Release the lock lever to lock the steering wheel in place.

AWARNING

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

SUN VISORS

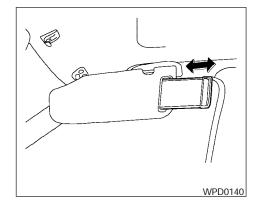
TELESCOPIC OPERATION

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

Pull the lock lever up firmly to lock the steering wheel in place.

AWARNING

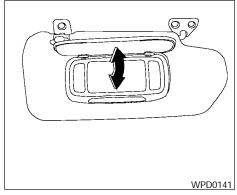
Do not adjust the steering wheel any closer to you than is necessary for proper steering operation and comfort. The driver's air bag inflates with great force. If you are unrestrained, leaning forward, sitting sideways or out of position in any way, you are at greater risk of injury or death in a crash. You may also receive serious or fatal injuries from the air bag if you are up against it when it inflates. Always sit back against the seatback and as far away as practical from the steering wheel. Always use the seat belts.



Slide the sun visor extension (if so equipped) in or out as needed.

A CAUTION

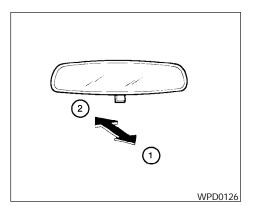
Do not store the sun visor before returning it to its original position.



VANITY MIRRORS (if so equipped)

To access the vanity mirror, pull the sun visor down and flip open the mirror cover. Some vanity mirrors are illuminated and turn on when the mirror cover is open.

MIRRORS



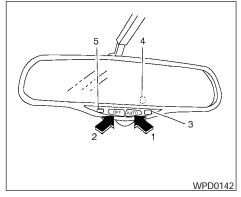
INSIDE MIRROR

The night position (1) reduces glare from the headlights of vehicles behind you at night.

Use the day position (2) when driving in daylight hours.

AWARNING

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



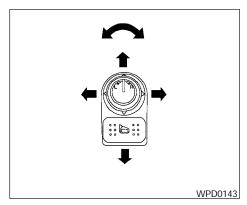
- **AUTO** position
- OFF position
- **AUTO** indicator light
- Sensor (on back of mirror)
- 5. Sensor

AUTOMATIC ANTI-GLARF INSIDE MIRROR (if so equipped)

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

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

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



OUTSIDE MIRRORS

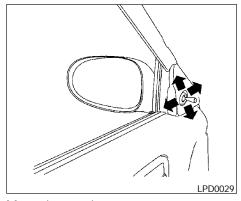
WARNING

Objects viewed in the outside mirror on the passenger side are closer than they appear. Be careful when moving to the right. Using only this mirror could cause an accident. Use the inside mirror or glance over your shoulder to properly judge distances to other objects.

Electric control type (if so equipped)

The outside mirror remote control only operates when the ignition switch is in the ACC or ON position.

Rotate the control lever to select the right or left mirror. Adjust the mirror to the desired position by moving the control lever.



Manual control type

The outside mirror can be moved in any direction for a better rear view.

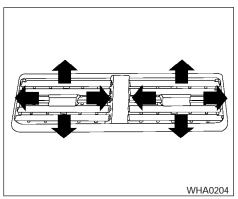
MEMO

4 Heater, air conditioner and audio systems

Ventilators
Center ventilators4-2
Side ventilators4-2
Heater and air conditioner (manual)4-3
Controls4-3
Heater operation4-4
Air conditioner operation (if so equipped) 4-5
Air flow charts4-6
Heater and air conditioner (automatic)4-10
Automatic operation4-12
Manual operation
Operating tips
Servicing air conditioner4-13
Audio system

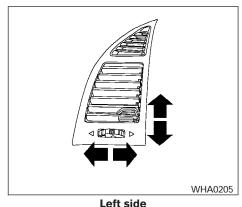
Radio	4
FM radio reception4-1	4
AM radio reception4-1	4
Audio operation precautions	
FM-AM radio with compact disc (CD) player	
(if so equipped)	7
FM-AM radio with compact disc (CD)	
changer (if so equipped)4-2	2
CD care and cleaning4-2	٤
Steering wheel switch for audio control	
(if so equipped)	ć
Antenna	ć
Car phone or CB radio4-3	C

VENTILATORS



Center **CENTER VENTILATORS**

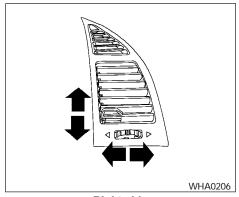
Adjust air flow direction by moving the ventilator slides.



SIDE VENTILATORS

You can adjust the airflow of the side ventilators by using the dial located at the side of the ventilators, and by moving the ventilator slide.

The airflow can be turned off by turning the dial to the outboard position.

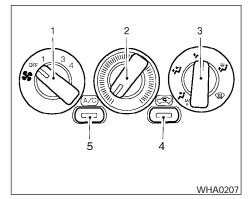


Right side

HEATER AND AIR CONDITIONER (manual)

AWARNING

- The air conditioner cooling function operates only when the engine is running.
- Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. 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.
- Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.
- Positioning of the heater and/or air conditioner controls should not be done while driving so full attention may be given to vehicle operation.



Fan control dial

2. Temperature control dial

Air flow control dial

4. Air recirculation button

Air conditioner button (if so equipped)

CONTROLS

Fan control dial

The fan control dial turns the fan on and off, and controls fan speed.

Air flow control dial

The air flow control dial allows you to select the air flow outlets.

MAX — Air flows from center and side A/C vents with maximum cooling (air conditioning).

 Air flows from center and side ventilators.

 Air flows from center and side ventilators and foot outlets.

- Air flows mainly from foot outlets. Air flows from defroster outlets.

and foot outlets.

 Air flows mainly from defroster outlets.

Temperature control dial

The temperature control dial allows you to adjust the temperature of the outlet air.

Air recirculation button

NOTE:

The air recirculation feature is available only on those vehicles equipped with air conditioning.

ON position (Indicator light on):

Interior air is recirculated inside the vehicle.

Push the button to the on position when:

- driving on a dusty road.
- to prevent traffic fumes from entering passenger compartment.
- for maximum cooling when using the air conditioner.

OFF position (Indicator light off):

Outside air is drawn into the passenger compartment and distributed through the selected outlet.

Use the off position for normal heater or air conditioner operation.

A/C

Air conditioner button (if so equipped)

The button is provided only on vehicles equipped with an air conditioner.

Start the engine, turn the fan control dial to the desired (1 - 4) position and push the $^{A/C}$ button to turn on the air conditioner. The indicator light comes on when the air conditioner is operating. To turn off the air conditioner, push the $^{A/C}$ button again.

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

Rear window defroster switch

For more information about the rear window defroster switch, see "Rear window defroster switch" in the "Instruments and controls" section of this manual.

HEATER OPERATION

Heating

This mode is used to direct heated air to the foot outlets. Some air also flows from the defrost outlets.

- 1. Push the button to the off position for normal heating.
- Turn the air flow control dial to the position.
- Turn the fan control dial to the desired position.
- Turn the temperature control dial to the desired position between the middle and the hot position.

Ventilation

This mode directs outside air to the side and center ventilators.

1. Push the 🕏 button to the off position.

- 2. Turn the air flow control dial to the position.
- Turn the fan control dial to the desired position.
- Turn the temperature control dial to the desired position.

Defrosting or defogging

This mode directs the air to the defrost outlets to defrost/defog the windows.

- 1. Turn the air flow control dial to the www position.
- Turn the fan control dial to the desired position.
- Turn the temperature control dial to the desired position between the middle and the hot position.
- To quickly remove ice or fog from the windows, turn the fan control dial to 4 and the temperature control lever to the full HOT position.
- When the the position is selected, the air conditioner automatically turns on (however, the indicator light will not illuminate) if the outside temperature is more than 36°F (2°C). The air conditioning system will continue to operate until the vehicle is restarted,

4-4 Heater, air conditioner and audio systems

even if the air flow control dial is turned to a position other than the viv position. This dehumidifies the air which helps defog the windshield. The some automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Bi-level heating

This mode directs air from the side, center and the foot outlets.

- 1. Push the button to the off position.
- 2. Turn the air flow control dial to the position.
- 3. Turn the fan control dial to the desired position.
- 4. Turn the temperature control dial to the desired position.

Heating and defogging

This mode heats the interior and defogs the windshield.

- 1. Turn the air flow control dial to the position.
- 2. Turn the fan control dial to the desired position.

- 3. Turn the temperature control dial to the desired position between the middle and the hot position.
- When the position is selected, the air conditioner automatically turns on (however, the indicator light will not illuminate) if the outside temperature is more than 36°F (2°C). The air conditioning system will continue to operate until the vehicle is restarted. even if the air flow control dial is turned to a position other than the position. This dehumidifies the air which helps defog the windshield. The see mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

Operating tips

Clear snow and ice from the wiper blades and air inlet in front of the windshield. This improves heater operation.

AIR CONDITIONER OPERATION (if so equipped)

Start the engine, turn the fan control dial to the desired (1 - 4) position, and push in the A/C button to activate the air conditioner. When the air conditioner is on, cooling and dehumidifying functions are added to the heater operation.

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

Cooling

This mode is used to cool and dehumidify the air.

- 1. Push the substitution to the off position.
- 2. Turn the air flow control dial to the MAX A/C or position.
- 3. Turn the fan control dial to the desired position.
- 4. Push the A/C button. The indicator light comes on.
- 5. Turn the temperature control dial to the desired position.
- For quick cooling when the outside temperature is high, push the S button to the on position (indicator light on). Be sure to return the button to the off position for normal cooling. MAX A/C may be used for quick cooling.

Dehumidified heating

This mode is used to heat and dehumidify the air.

- 1. Push the button to the off position.
- 2. Turn the air flow control dial to the position.

- Turn the fan control dial to the desired position.
- 4. Push the A/C button. The indicator light comes on.
- Turn the temperature control dial to the desired position.

Dehumidified defogging

This mode is used to defog the windows and dehumidify the air.

- 1. Turn the air flow control dial to the www position.
- Turn the fan control dial to the desired position.
- 3. Push the A/C button. The indicator light comes on.

When the W, or positions in between are selected, the air conditioner automatically turns on (however, the indicator light will not illuminate) if the outside temperature is more than 36°F (2°C). The air conditioning system will continue to operate until the vehicle is restarted, even if the air flow control dial is turned to a position other than the position. This dehumidifies the air which helps defog the windshield. The mode automatically turns off, allowing

outside air to be drawn into the passenger compartment to further improve the defogging performance.

Turn the temperature control dial to the desired position.

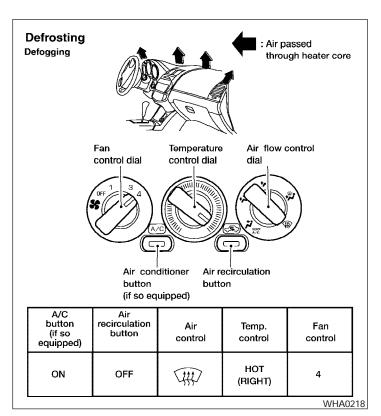
Operating tips

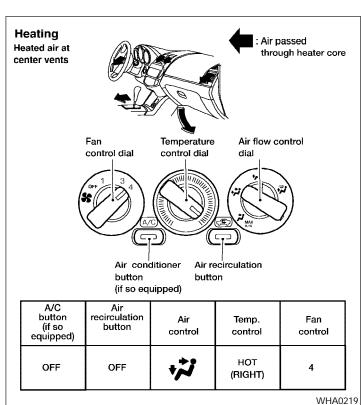
- Keep the windows and sunroof closed while the air conditioner is in operation.
- After parking in the sun, drive for 2 or 3 minutes with the windows open to vent hot air from the passenger compartment. Then, close the windows. This allows the air conditioner to cool the interior more quickly.
- The air conditioning system should be operated for approximately 10 minutes at least once a month. This helps prevent damage to the system due to lack of lubrication.
- If the engine coolant temperature gauge indicates engine coolant temperature over the normal range, turn the air conditioner off. See "If your vehicle overheats" in the "In case of emergency" section of this manual.

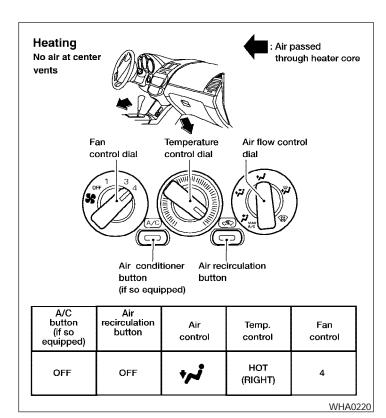
AIR FLOW CHARTS

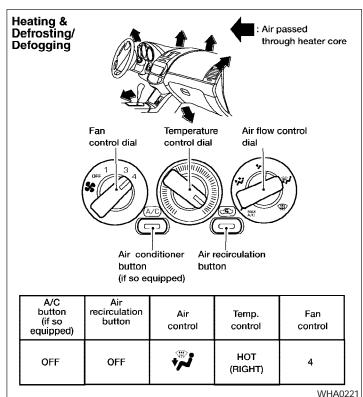
The following charts show the button and dial positions for MAXIMUM AND QUICK heating, cooling or defrosting. The air recirculation button should always be in the OFF position for heating and defrosting.

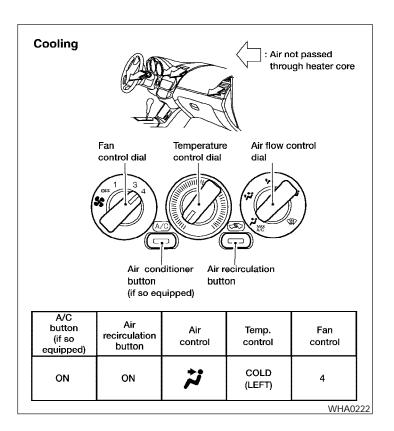
4-6 Heater, air conditioner and audio systems



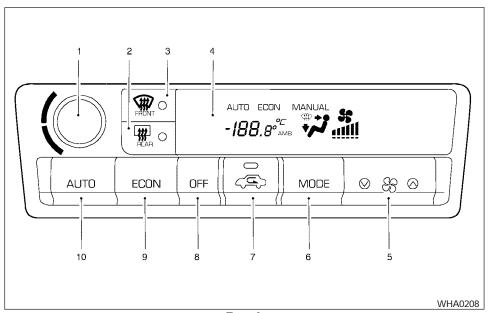








HEATER AND AIR CONDITIONER (automatic)

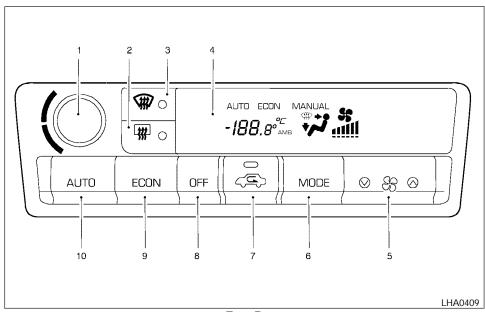


- Temperature dial
- 2. Rear window defroster switch
- 3. Front defroster switch
- 4. Display screen
- 5. Fan switch

Type A

- 6. Mode switch
- 7. Recirculation switch
- 8. OFF switch
- 9. ECON switch
- 10. AUTO switch

4-10 Heater, air conditioner and audio systems



- Temperature dial
- 2. Rear window defroster switch
- 3. Front defroster switch
- 4. Display screen
- 5. Fan switch

Type B

- Mode switch
- 7. Recirculation switch
- 8. OFF switch
- 9. ECON switch
- 10. AUTO switch

AWARNING

- The air conditioner cooling function operates only when the engine is running.
- Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. 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.
- Do not use the recirculation mode for long periods as it may cause the interior air to become stale and the windows to fog up.
- Positioning of the heater and/or air conditioner controls should not be done while driving so full attention may be given to vehicle operation.

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

AUTOMATIC OPERATION Cooling and/or dehumidified heating (auto)

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.

- Push the AUTO button on. (AUTO will be displayed.)
- 2. Turn the temperature dial to the left or right to set the desired temperature.
- Adjust the temperature dial 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)

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. Turn the temperature dial to the left or right 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 www on. The indicator light on the button will come on.
- 2. Turn the temperature dial to the left or right to set the desired temperature.
- To quickly remove ice 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 W is pushed, the air conditioner will automatically be turned on at outside temperatures above 36°F (2°C). The air conditioning system will continue to operate until the vehicle is restarted,

even if the air flow control dial is turned to a position other than the position. This dehumidifies the air which helps defog the windshield. The air recirculate mode automatically turns off, allowing outside air to be drawn into the passenger compartment to further improve the defogging performance.

MANUAL OPERATION

Fan speed control

Push the fan control button up or down to manually control the fan speed.

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

Air recirculation

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

Push it again to make the air inlet controlled automatically (FRESH, REC/FRE and RECIR-CULATION). The indicator will go out.

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

Air flow control

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

فتر

 Air flows from center and side ventilators.

 Air flows from center and side ventilators and foot outlets.



Air flows mainly from foot outlets.



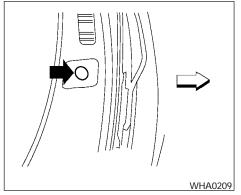
 Air flows from defroster and foot outlets.

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, air flow from the foot outlets will operate normally.



The sunload sensor, located on the top passenger side of the instrument panel, helps the system maintain a constant temperature. Do not put anything on or around this sensor.

SERVICING AIR CONDITIONER

The air conditioner system in your NISSAN vehicle is charged with a refrigerant designed with the environment in mind.

This refrigerant does not harm the earth's ozone laver.

Special charging equipment and lubricant is required when servicing your NISSAN air conditioner. Using improper refrigerants or lubricants will cause severe damage to your air conditioner system. See "Air conditioner system refrigerant and lubricant recommendations" in the "Technical and consumer information" section of this manual.

A NISSAN dealer is able to service your "environmentally friendly" air conditioning system.

WARNING

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

AUDIO SYSTEM

RADIO

Turn the ignition key to the ACC or ON position and press the PWR (power)/VOL (volume) knob to turn the radio on. If you listen to the radio with the engine not running, the key should be turned to the ACC position.

Radio reception is affected by station signal strength, distance from radio transmitter, buildings, bridges, mountains and other external influences. Intermittent changes in reception quality normally are caused by these external influences.

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

Radio reception

Your NISSAN 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 NISSAN radio system.

Reception conditions will constantly change because of vehicle movement. Buildings, terrain, signal distance and interference from other vehicles can work against ideal reception. Described below are some of the factors that can affect your radio reception.

FM RADIO RECEPTION

Range: FM range is normally limited to 25 - 30 miles (40 - 48 km), with monaural (single channel) FM having slightly more range than stereo FM. External influences may sometimes interfere with FM station reception even if the FM station is within 25 miles (40 km). The strength of the FM signal is directly related to the distance between the transmitter and receiver. FM signals follow a line-of-sight path, exhibiting many of the same characteristics as light. For example they will reflect off objects.

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

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

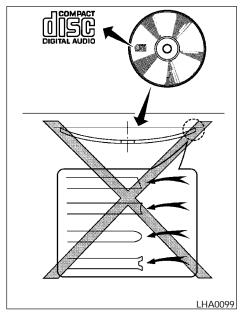
AM RADIO RECEPTION

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.

4-14 Heater, air conditioner and audio systems



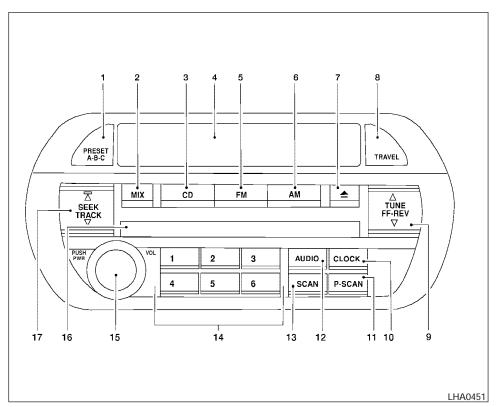
AUDIO OPERATION PRECAUTIONS

Compact disc (CD) player

 Only use high quality 4.7 inches (12 cm) round discs that have the "COMPACT

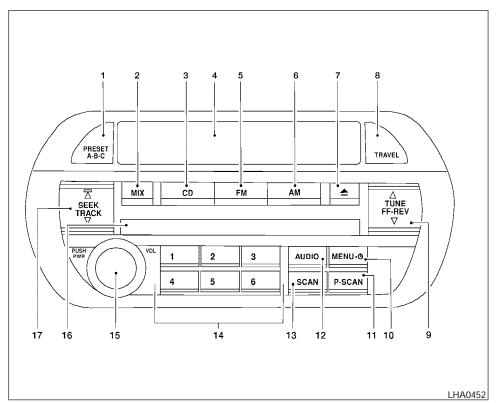
- disc DIGITAL AUDIO" logo on the disc or packaging.
- During cold weather or rainy days, the player may malfunction due to the humidity. If this occurs, remove the CD and dehumidify or ventilate the player completely.
- The player may skip while driving on rough roads.
- The CD player sometimes cannot function when the compartment temperature is extremely high. Decrease the temperature before use.
- Do not expose the CD to direct sunliaht.
- CDs that are in poor condition or are dirty, scratched or covered with fingerprints may not work properly.
- The following CDs may not work properly:
 - Copy control compact discs (CCCD)
 - Recordable compact discs (CD-R)
 - Rewritable compact discs (CD-RW)

- Do not use the following CDs as they may cause the CD player to malfunction:
 - 3.1 in (8 cm) discs with an adapter
 - CDs that are not round
 - CDs with a paper label
 - CDs that are warped, scratched, or have abnormal edges



Type A

- 1. PRESET ABC button
- 2. MIX button
- 3. CD select button
- 4. Display
- 5. FM band select button
- 6. AM band select button
- 7. CD eject button
- 8. TRAVEL button
- 9. TUNE FF-REV button
- 10. CLOCK button
- 11. Preset scan button
- 12. AUDIO button
- 13. SCAN button
- 14. Station preset buttons
- 15. PWR/VOL control knob
- 16. CD insert slot
- 17. SEEK/TRACK button



Type B

- 1. PRESET ABC button
- 2. MIX button
- 3. CD select button
- 4. Display
- 5. FM band select button
- 6. AM band select button
- 7. CD eject button
- 8. TRAVEL button
- 9. TUNE FF-REV button
- MENU/CLOCK button for radios with SCV
- 11. Preset scan button
- 12. AUDIO button
- 13. SCAN button
- 14. Station preset buttons
- 15. PWR/VOL control knob
- 16. CD insert slot
- 17. SEEK/TRACK button

FM-AM RADIO WITH COMPACT DISC (CD) PLAYER (if so equipped)

PWR/VOL control knob

Turn the ignition key to the ACC or ON position, then push the PWR/VOL control knob. If you listen to the radio with the engine not running, turn the key to the ACC position. The mode (radio

or CD) that was playing immediately before the system was turned off resumes playing.

When no CD is loaded, the radio comes on. Pushing the PWR/VOL control knob again turns the system off.

Turn the PWR/VOL control knob to the right to increase volume or to the left to decrease volume.

Adjusting tone quality and speaker balance

Press the AUDIO button to enter the audio adjust mode:

Bass→Mid→Treb→Fade→Bal

Press the TUNE/FF-REV (▲ or ▼) or SEEK/TRACK (▲ or ▼) to adjust to the desired levels. The display will return to the regular radio display after 7 seconds, or you may press the AUDIO button again to return to the regular radio display.

Clock operation

Pressing the MENU or CLOCK button displays the clock with the radio on or off. Press the MENU or CLOCK button again to turn off the clock display.

Clock set

1. Press and hold the MENU or CLOCK button until it beeps (longer than 2 seconds).

- The hours will start flashing. Press TUNE/FF-REV (▲ or ▼) or SEEK/TRACK (▲ or ▼) to adjust the hours.
- 3. Press the MENU or CLOCK button to switch to the minute adjustment.
- Press TUNE/FF-REV (▲ or ▼) or SEEK/TRACK (▲ or ▼) to adjust the minutes.
- 5. Press the MENU or CLOCK button again to exit the clock set mode.

The display will return to the regular clock display after 7 seconds, or you may press the MENU or CLOCK button again to return to the regular clock display.

FM-AM radio operation

FM-AM band select

Push the AM or the FM button to change from AM to FM reception.

The FM stereo indicator, ST, illuminates during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.





TUNE/FF-REV

WARNING

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

Use the ▲ and ▼ buttons for manual tuning. To move quickly through the channels, hold the tuning buttons down.





SEEK tuning

Push SEEK/TRACK (or .) SEEK tuning begins from low to high frequencies or high to low frequencies, depending on which button is pressed, and stops at the next broadcasting station. If using the up button, once the highest broadcasting station is reached, the radio continues in the SEEK mode at the lowest broadcasting station. If using the down button, once the lowest broadcasting station is reached, the radio continues in the SEEK mode at the highest broadcasting station.

SCAN tuning

Push the SCAN button. SCAN illuminates in the display window. SCAN tuning begins from low to high frequencies. SCAN tuning stops for 5 seconds at each broadcasting station that has sufficient signal strength. When scanning, SCAN

4-18 Heater, air conditioner and audio systems

blinks in the display. Pushing the SCAN button again during this 5 second period stops SCAN tuning and the radio remains tuned to that station.

Station memory operation — Travel Preset is OFF

Each preset mode (A, B or C) has 6 presets, capable of storing any combination of AM, FM and FM RDS stations.

Press the PRESET ABC button to change between the presets:

$A \rightarrow B \rightarrow C$

The radio displays icon A, B or C to indicate which set of presets is active.

To store a radio station in a preset:

- 1. Select the desired preset by pressing PRE-SFT ABC.
- Tune to the desired station.
- 3. Press the desired station select button (>2 seconds).
- 4. A beep will sound indicating memorization is complete.
- 5. Other station select buttons can be set in the same manner.

If the battery cable is disconnected, or if the radio fuse opens, the radio memory is canceled. In that case, reset the desired stations.

Turning ON Travel Preset

- 1. Press the TRAVEL preset button (<1.5 seconds). The TRAVEL icon shows in the display.
- 2. The radio selects the strongest stations in the area and stores them in Travel Presets A. B and C. 12 FM stations and 6 AM stations are the default settings. To change the default settings, see "Editing Travel Preset" later in this section
- 3. When finished storing radio stations, the radio tunes to the first stored preset of Travel Preset A.
- 4. If the radio cannot find any stations, the radio displays "NO STATION" and mutes the audio.
- 5. If the radio cannot fill all the presets, the remaining presets are stored with 87.9 for FM and 600 for AM.

The TUNE, SCAN, SEEK and preset memory functions are available while Travel Preset mode is on.

Canceling Travel Preset

Press the TRAVEL preset button (<1.5 seconds) to clear the Travel Preset memory. This turns off the Travel icon. The radio returns to the last used preset of A, B or C in the permanent preset memory.

Storing Travel Preset stations in permanent memory

- 1. While in Travel Preset mode, press and hold the TRAVEL preset button until it beeps (>3 seconds).
- 2. The presets are transferred from Travel Preset memory to the permanent preset memory for A, B, and C. "LOAD" is displayed.
- 3. The TRAVEL preset indicator turns off.

Preset Scan

Pressing the Preset Scan button (<1.5 seconds) scans the permanent preset memory that is selected (A, B or C) from 1 - 6 for 5 seconds. If the Travel Preset is ON, the travel preset that is selected (A, B or C) from 1 - 6 is scanned for 5 seconds.

All Preset Scan

Pressing the Preset Scan button (>1.5 seconds) scans all the permanent preset memory banks (A, B or C) from 1 - 6 for 5 seconds. If the Travel Preset is ON, all the travel preset memory banks (A, B or C) from 1 - 6 are scanned for 5 seconds.

Canceling Preset Scan mode

Pressing any button except CLOCK, EJECT, MIX and CD cancels the Preset Scan mode.

Speed Sensitive Control Volume (SCV) (if so equipped)

Your vehicle has Speed Sensitive Control Volume (SCV) for audio. The audio volume changes as the driving speed changes.

Press and hold the MENU button (>2 seconds) until the radio beeps to start the editing mode. Press the MENU button until the display shows **"SCV".** This display will last 2 seconds and then change to **"OFF"**. Press TUNE/FF-REV (ightharpoonup) to change between:

Off→Low→Mid→High

Compact disc (CD) player operation

Turn the ignition key to the ACC or ON position.

A CAUTION

- Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.
- Trying to load a CD with the CD door closed could damage the CD and/or CD changer.

CD

CD button

When the CD button is pressed with a compact disc loaded and the radio playing, the radio turns off and the last used compact disc starts to play.





FF (Fast Forward), REW (Rewind) buttons

When the TUNE/FF-REV (lacktriangle or lacktriangle) button is pressed while the compact disc is playing, the compact disc plays at an increased speed while fast forwarding or rewinding. When the button is released, the compact disc returns to normal play speed.





SEEK/TRACK buttons

When $\overline{\blacktriangle}$ is pressed while the compact disc is playing, the selection following the present one starts to play from the beginning. Press $\overline{\blacktriangle}$ several times to skip several selections. Each time the button is pressed, the CD advances 1

additional selection. The track number appears in the display window. (When the last selection on the compact disc is skipped, the first selection is played.)

When <u>I</u> is pressed, the selection being played returns to the beginning. Press <u>I</u> several times to skip back several selections. Each time the button is pressed the CD moves back 1 selection. If the play pattern is in MIX mode when the button is pressed, the next random selection will be played.

MIX button

Press the MIX button to change CD play patterns:

Repeat-Mix-Normal Play

Repeat

Press the MIX button (<1.5 seconds) once to repeat the current track. The "1" icon is turned on.

Mix

Press the MIX button (<1.5 seconds) again to start shuffle play of the current disc. The "MIX" icon is turned on.

Normal play

Press the MIX button (<1.5 seconds) again to return to normal play mode. The "MIX" icon is turned off.

CD scan

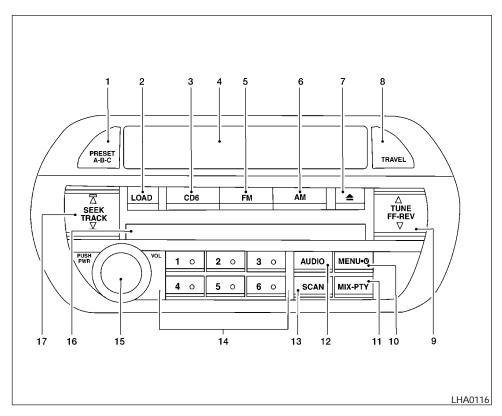
Press the SCAN button (<1.5 seconds) to scan all tracks of the current disc for 7 seconds per track. The SCAN icon is flashed during Scan mode.

The Scan mode is canceled once it scans through all tracks on the disc, or if the SCAN button is pressed during Scan mode.



Eject CD

- 1. Press the **b**utton.
- The disc ejects. Remove the disc. (If the disc is not removed within 15 seconds, the disc will reload.)
- The indicator and symbol for the disc are turned off.



- 1. PRESET ABC button
- 2. LOAD button
- 3. CD select button
- 4. Display
- FM band select button
- AM band select button
- 7. CD eject button
- 8. TRAVEL button
- 9. TUNF FF-RFV button
- 10. MENU/CLOCK button
- 11. MIX/PTY button
- 12. AUDIO button
- 13. SCAN button
- 14. Station preset buttons
- 15. POWER/VOL control knob
- 16. CD insert slot
- 17. SEEK/TRACK button

FM-AM RADIO WITH COMPACT DISC (CD) CHANGER (if so equipped)

PWR/VOL control knob

Turn the ignition key to the ACC or ON position, then push the PWR/VOL control knob. If you listen to the radio with the engine not running, turn the key to the ACC position. The mode (radio or CD) that was playing immediately before the system was turned off resumes playing.

When no CD is loaded, the radio comes on. Pushing the PWR/VOL control knob again turns the system off.

Turn the PWR/VOL control knob to the right to increase volume or to the left to decrease volume.

Adjusting tone quality and speaker balance

Press the AUDIO button to enter the audio adjust mode:

Bass→Treb→Fade→Bal

Press the TUNE/FF-REV (\blacktriangle or \blacktriangledown) or SEEK/TRACK ($\overline{\blacktriangle}$ or $\underline{\blacktriangledown}$) to adjust to the desired levels. The display will return to the regular radio display after 7 seconds, or you may press the AUDIO button again to return to the regular radio display.

Clock operation

Pressing the MENU button displays the clock with the radio on or off. Press the MENU button again to turn off the clock display.

Clock set

- 1. Press and hold the MENU button until it beeps (>2 seconds).
- 2. The hours will start flashing. Press TUNE/FF-REV (▲ or ▼) or SEEK/TRACK (▲ or ▼) to adjust the hours.

- Press the MENU button to switch to the minute adjustment.
- Press TUNE/FF-REV (▲ or ▼) or SEEK/TRACK (Ā or ▼) to adjust the minutes.
- Press the MENU button again to exit the clock set mode.

The display will return to the regular clock display after 7 seconds, or you may press the MENU button again to return to the regular clock display.

FM-AM radio operation

FM-AM band select

Push the AM or the FM button to change from AM to FM reception.

The FM stereo indicator, ST, illuminates during FM stereo reception. When the stereo broadcast signal is weak, the radio automatically changes from stereo to monaural reception.



AWARNING

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

4-22 Heater, air conditioner and audio systems

Use the buttons for manual and tuning. To move quickly through the channels, hold the tuning buttons down.





SEEK tuning

Push SEEK/TRACK (▲ or ▼). SEEK tuning begins from low to high frequencies or high to low frequencies, depending on which button is pressed, and stops at the next broadcasting station. If using the up button, once the highest broadcasting station is reached, the radio continues in the SEEK mode at the lowest broadcasting station. If using the down button, once the lowest broadcasting station is reached, the radio continues in the SEEK mode at the highest broadcasting station.

SCAN tuning

Push the SCAN button, SCAN illuminates in the display window. SCAN tuning begins from low to high frequencies. SCAN tuning stops for 5 seconds at each broadcasting station that has sufficient signal strength. When scanning, SCAN blinks in the display. Pushing the SCAN button again during this 5 second period stops SCAN tuning and the radio remains tuned to that station.

Station memory operation — Travel Preset is OFF

Each preset mode (A, B or C) has 6 presets, capable of storing any combination of AM, FM and FM RDS stations.

Press the PRESET ABC button to change between the presets:

$A \rightarrow B \rightarrow C$

The radio displays icon A, B or C to indicate which set of presets is active.

To store a radio station in a preset:

- 1. Select the desired preset by pressing PRE-SET ABC.
- Tune to the desired station.
- 3. Press the desired station select button (>2 seconds).
- 4. A beep will sound indicating memorization is complete.
- 5. Other station select buttons can be set in the same manner.

If the battery cable is disconnected, or if the radio fuse opens, the radio memory is canceled. In that case, reset the desired stations.

Turning ON Travel Preset

- 1. Press the TRAVEL preset button (< 1.5 seconds). The TRAVEL icon shows in the display.
- 2. The radio selects the strongest stations in the area and stores them in Travel Presets A. B and C. 12 FM stations and 6 AM stations. are the default settings. To change the default settings, see "Editing Travel Preset" later in this section.
- 3. When finished storing radio stations, the radio tunes to the first stored preset of Travel Preset A
- 4. If the radio cannot find any stations, the radio displays "NO STATION" and mutes the audio.
- 5. If the radio cannot fill all the presets, the remaining presets are stored with 87.9 for FM and 600 for AM.

The TUNE, SCAN, SEEK and preset memory functions are available while Travel Preset mode is on.

Canceling Travel Preset

Press the TRAVEL preset button (<1.5 seconds) to clear the Travel Preset memory. This turns off the Travel icon. The radio returns to the last used preset of A, B or C in the permanent preset memory.

Editing travel preset

- Press and hold the TRAVEL preset button (>3 seconds) until the radio beeps to start the editing mode. The Travel icon will flash while in TRAVEL PRESET EDIT mode.
- The radio displays "TRAVEL EDIT" for 2 seconds and then changes to "SET A-*".
- Press TUNE/FF-REV (▲ or ▼) to select a mode.
- Press the TRAVEL PRESET button to save the mode.
- 5. Display is changed to "SET B-*", repeat steps 3 and 4.
- Display is changed to "SET C-*", repeat step 3.
- Press the TRAVEL PRESET button to exit the edit mode and return to normal mode.
- *: AM, FM, FM RDS, Rock, Classic Rock, Soft Rock, Top 40, Country, Jazz, Classical, Oldies, News, Sports, Talk.

Storing Travel Preset stations in permanent memory

- While in Travel Preset mode, press and hold the TRAVEL preset button until it beeps (>3 seconds).
- The presets are transferred from Travel Preset memory to the permanent preset memory for A, B, and C. "PRESETS LOADED" is displayed.
- 3. The TRAVEL preset indicator turns off.

RDS (radio data system)

RDS stands for Radio Data System, and is a data information service transmitted by some radio stations on the FM band (not AM band) encoded within a regular radio broadcast. Currently, most RDS stations are in large cities, but many stations are now considering broadcasting RDS data.

RDS can display:

- Station call sign, such as "WHFR 98.3".
- Station name, such as "The Groove".
- Music or programming type, such as "Classical", "Country", or "Rock".
- Traffic reports about delays or construction.

If the station broadcasts RDS information the RDS icon is displayed. The RDS information will

be displayed according to the option chosen in the RDS setup mode. (FM & RDS is the default.) Press the RDS button again to display the frequency for 3 seconds. The radio will then return to the normal display. If the station does not broadcast RDS information, the RDS icon will not be displayed.

Setting RDS mode

Press and hold the MENU button (>2 seconds) until the radio beeps to start the editing mode. Press the MENU button until the display shows "RDS TRAFFIC". This display will last 2 seconds and then change to "TRAFFIC-OFF". Press TUNE/FF-REV (▲ or ▼) to toggle the RDS traffic mode from "OFF" to "ON". Press the RDS button again to set your RDS mode selection.

The display changes to "RDS DISPLAY". This display will last 2 seconds and then change to "SHOW". Press TUNE/FF-REV (▲ or ▼) to switch between the following RDS display modes:

- "FM & RDS": the radio display will show the station's broadcast frequency and the station's name.
- "RDS ONLY": the radio display will show the station's name only.

4-24 Heater, air conditioner and audio systems

"RDS TEMP": the radio display will show the station's name for 5 seconds and then display only the radio station's broadcast frequency.

PTY (program type)

PTY can be used to search for a certain program type. Certain areas have a limited number of stations that transmit RDS. Many stations transmit call letters and frequencies only. Searching or scanning by program type may yield a limited number of selections.

- 1. Press the MIX-PTY button. The display changes from "RDS PTY SEARCH" to "SELECT BY TUNE".
- 2. Press TUNE/FF-REV (or \vee up/down button to choose a specific program type:

ROCK, CLASSIC ROCK, SOFT ROCK, TOP 40, COUNTRY, JAZZ, CLASSICAL, OLDIES, NEWS, SPORTS, TALK, ANY

3. Press the SEEK (▲ or ▼) or SCAN button to search for the next station with the selected PTY. The SCAN icon flashes when the SCAN button is pressed. If SCAN is selected, push the PTY or SCAN button to stop on a station.

If SEEK is selected, the radio automatically stops on the next radio station matching the selected program type.

4. Press the PTY button again to cancel the PTY mode.

Speed Sensitive Control Volume (SCV)

Your vehicle has Speed Sensitive Control Volume (SCV) for audio. The audio volume changes as the driving speed changes.

Press and hold the MENU button (>2 seconds) until the radio beeps to start the editing mode. Press the MENU button until the display shows "Speed comp vol". This display will last 2 seconds and then change to "SCV-off" . Press TUNE/FF-REV (▲ or ▼) to change between:

Off→Low→Mid→High

Compact disc (CD) player operation Turn the ignition key to the ACC or ON position.

A CAUTION

• Do not force a compact disc into the CD insert slot. This could damage the CD and/or CD changer/player.

• Trying to load a CD with the CD door closed could damage the CD and/or CD changer.

CD6 button

When the CD6 button is pressed with a compact disc loaded and the radio playing, the radio turns off and the last used compact disc starts to play.

CD loading

Press the LOAD button to start CD loading mode.

The following sequence will occur:

- 1. If other discs are already loaded, the green indicator on the lowest available disc select button will start blinking. (Same as preset memory button.) The display shows "Please Wait".
- 2. The display changes to "Insert Disc" for a maximum of 15 seconds.
- 3. During the 15 second interval, insert the disc. The display changes to "Loading Disc".
- 4. The CD will play after the disc is set to a play position.

 The indicator changes from blinking green to solid green and the display changes to show the Disc number icon, Disc number, Track number and Elapsed time.

All disc loading

- 1. Press and hold the LOAD button until the radio beeps (>1.5 seconds).
- The green indicator on the lowest available disc select button will start blinking. (Same as preset memory button.) The display shows "Please Wait".
- The display changes to "Insert Disc" for a maximum of 15 seconds.
- During the 15 second interval, insert the disc. The display changes to "Loading Disc".
- The indicator changes from **blinking green** to **solid green**.
- 6. The disc number icon is turned on.

 Repeat steps 2–5 until all discs are loaded, then the last loaded disc will begin to play. The display shows the Disc number, Track number and Elapsed Time.

Selected disc loading

- Press an available disc select button whose indicator is off. The display shows "Please Wait".
- The green indicator starts blinking and the display shows "Insert Disc" for 15 seconds.
- Insert the CD. The display shows "Loading Disc".
- The CD will play after the disc is set to a play position.
- The indicator color changes from **blinking** green to solid green and the display shows the Disc icon, Disc number, Track number and Elapsed Time.

If a disc is not inserted within 15 seconds or if the load button is pressed during load sequence, the entire disc load sequence will be canceled.

Disc play

Press the CD button. If a CD is loaded and the radio is playing, the radio turns off and the last loaded disc starts to play.

Selected disc play

- Press the disc select button whose disc icon is displayed.
- The indicator blinks green during the change and the display shows "Changing Disc".
- The CD plays after the disc is set to a play position.
- The indicator changes from blinking green to solid green and the display shows the Disc number, Track number and Elapsed Time.





FF (fast forward) REW (rewind) buttons

When the TUNE/FF-REV (lacktriangle or lacktriangle) button is pressed while the compact disc is playing, the compact disc plays at an increased speed while fast forwarding or rewinding. When the button is released, the CD returns to normal play speed.





SEEK/TRACK buttons

When $\overline{\blacktriangle}$ is pressed while the compact disc is playing, the selection following the present one starts to play from the beginning. Press $\overline{\blacktriangle}$ several times to skip several selections. Each time the button is pressed, the CD advances 1

additional selection. The track number appears in the display window. (When the last selection on the compact disc is skipped, the first selection is played.)

When <u>Y</u> is pressed, the selection being played returns to the beginning. Press <u>Y</u> several times to skip back several selections. Each time the button is pressed, the CD moves back 1 selection. If the play pattern is in MIX mode when the button is pressed the next random selection will be played.

MIX-PTY

Press the MIX-PTY button to change CD play patterns:

Repeat-Mix-All Mix-Normal Play

Repeat

Press the MIX·PTY button (<1.5 seconds) once to repeat the current track. The "1" icon is turned on, and the display shows "Repeat Track" for 2 seconds. The display then shows the Track number and Elapsed time as normal.

Mix

Press the MIX·PTY button (<1.5 seconds) again to start shuffle play of the current disc. The "MIX" icon is turned on and the display shows "Mix Tracks" for 2 seconds. The display then shows the Track number and Elapsed time as normal.

All Mix

Press the MIX-PTY button (<1.5 seconds) again to start shuffle play of all discs. The "MIX" icon is turned on, and the display shows "Mix All Tracks" for 2 seconds. The display then shows the Track number and Elapsed time as normal. Also, the indicators of the loaded discs are turned on with amber color. (Green for current disc.)

Normal play

Press the MIX·PTY button (<1.5 seconds) again to return to normal play mode. The "MIX" icon and the amber LEDs are turned off. The display shows "Normal Play" for 2 seconds. The display then shows the Track number and Elapsed time as normal.

CD scan

1 Disc All Tracks

Press the SCAN button (<1.5 seconds) to scan all tracks of the current disc for 7 seconds per track. The display shows "Disc Scan" for 2 seconds, and then shows the track number and elapsed time as normal. The SCAN icon is flashed during Scan mode.

The Scan mode is canceled once it scans through all tracks on the disc, or if the SCAN button is pressed during Scan mode.

All Discs, 1 Track

Press and hold the SCAN button (>1.5 seconds) to scan the first track of all the loaded discs for 7 seconds per track. The display shows "All Disc Scan" for 2 seconds, and then shows the track number and elapsed time as normal. The SCAN icon is flashed during Scan mode.

The Scan mode is canceled once it scans through all the loaded discs, or if the SCAN button is pressed during Scan mode.



Eject CD

Current disc

- Press the button.
- The green indicator starts to blink and the display shows "Disc Eject" for 2 seconds. The display then changes to "Ejecting Disc".
- The disc ejects. Remove the disc. (If the disc is not removed within 15 seconds, the disc will reload.)
- The indicator and symbol for the disc are turned off.

Select a disc

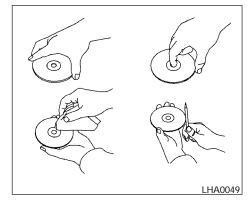
1. Press the desired disc, then press the <u>button</u>.

- The green indicator starts blinking and the display shows "Disc Eject" for 2 seconds. The display then changes to "Ejecting Disc".
- The disc ejects. Remove the disc (If the disc is not removed within 15 seconds, the disc will reload.)
- The indicator and symbol for the disc are turned off.

All discs

- Press and hold the button until it beeps (>1.5 seconds).
- Lowest used disc number indicator blinks green and display shows "All Disc Eject" for 2 seconds. The display then changes to "Ejecting Disc".
- When a disc is removed, the indicator and disc icon will be turned off, and then the next disc will emerge, and so on.
- The display will be turned off after all discs are ejected and removed.

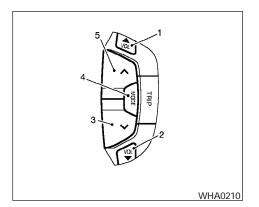
If a disc is not removed within 15 seconds, or if the button is pressed again during the Eject sequence, the entire disc Eject sequence will be canceled.



CD CARE AND CLEANING

- Handle a CD by its edges. Do not bend the disc. Never touch the surface of the disc.
- Always place the discs in the storage case when they are not being used.
- To clean a disc, wipe the surface from the center to the outer edge using a clean, soft cloth. Do not wipe the disc using a circular motion.
- Do not use a conventional record cleaner or alcohol intended for industrial use.

 A new disc may be rough on the inner and outer edges. Remove the rough edges by rubbing the inner and outer edges with the side of a pen or pencil as illustrated.



- 1. Volume control switch (up)
- Volume control switch (down)
- 3. Down
- Mode select switch
- 5. Иp

STEERING WHEEL SWITCH FOR AUDIO CONTROL (if so equipped)

"MODE" select switch

Push the mode select switch to change the modes:

PRESET A → PRESET B → PRESET C → Insert CD (if so equipped)

Volume control switches

Push ▲ or ▼ to increase or decrease the volume.



Push the tuning switch \vee or \wedge for less than 1.5 seconds to change to the next preset station in memory.

Seek tuning (radio):

Push the tuning switch \vee or \wedge for more than 1.5 seconds to seek the next or previous radio station.

Next/Previous track (CD):

Push the tuning switch \vee or \wedge for less than 1.5 seconds to return to the beginning of the present track or skip to the next track. Push several times to skip back or skip through tracks.

This system searches for the blank intervals between selections. If there is a blank interval within 1 program or there is no interval between programs, the system may not stop in the desired or expected location.

Change disc (CD) (if so equipped):

Push the tuning switch \vee or \wedge for more than 1.5 seconds to change the plaving disc up or down.

ANTENNA

Window antenna

The antenna pattern is printed inside the rear window.

A CAUTION

- Do not place metalized film near the rear window glass or attach any metal parts to it. This may cause poor reception or noise.
- When cleaning the inside of the rear window, be careful not to scratch or damage the rear window antenna. Lightly wipe along the antenna with a dampened soft cloth.

CAR PHONE OR CB RADIO

When installing a CB, ham radio or car phone in your NISSAN, be sure to observe the following cautions, otherwise the new equipment may adversely affect the MFI (Multiport Fuel Injection) system and other electronic parts.

AWARNING

- A cellular telephone should not be used while driving so full attention may be given to vehicle operation. Some jurisdictions prohibit the use of cellular telephones while driving.
- If you must make a call while your vehicle is in motion, the hands free cellular phone operational mode (if so equipped) is highly recommended. Exercise extreme caution at all times so full attention may be given to vehicle operation.
- If a conversation in a moving vehicle requires you to take notes, pull off the road to a safe location and stop your vehicle before doing so.

A CAUTION

- Keep the antenna as far away as possible from the Engine Control Module (ECM).
- Keep the antenna wire more than 8 in (20 cm) away from the Multiport Fuel Injection harness. Do not route the antenna wire next to any harness.
- Adjust the antenna standing-wave ratio as recommended by the manufacturer.
- Connect the ground wire from the CB radio chassis to the body.
- For details, consult a NISSAN dealer.

5 Starting and driving

Precautions when starting and driving. 5-2 Exhaust gas (carbon monoxide) 5-2 Three-way catalyst 5-2 Avoiding collision and rollover 5-3 Drinking alcohol/drugs and driving 5-3 Ignition switch 5-4 Automatic transmission 5-4
Manual transmission
Key positions
Nissan vehicle immobilizer system (NVIS)5-5
Before starting the engine 5-6
Starting the engine
Driving the vehicle
Automatic transmission (if so equipped)5-7
Manual transmission5-10
Parking brake
Cruise control (if so equipped)5-12
Precautions on cruise control
Cruise control operations5-13

PRECAUTIONS WHEN STARTING AND DRIVING

AWARNING

- Do not leave children or adults who would normally require the support of others alone in your vehicle. Pets should not be left alone either. They could accidentally injure themselves or others through inadvertent operation of the vehicle. Also, on hot, sunny days, temperatures in a closed vehicle could quickly become high enough to cause severe or possibly fatal injuries to people or animals.
- Closely supervise children when they are around cars to prevent them from playing and becoming locked in the trunk where they could be seriously injured. Keep the car locked, with the rear seatback and trunk lid securely latched when not in use, and prevent children's access to car keys.

EXHAUST GAS (carbon monoxide)

AWARNING

 Do not breathe exhaust gases; they contain colorless and odorless carbon monoxide. Carbon monoxide is dangerous. It can cause unconsciousness or death.

- If you suspect that exhaust fumes are entering the vehicle, drive with all windows fully open, and have the vehicle inspected immediately.
- Do not run the engine in closed spaces such as a garage.
- Do not park the vehicle with the engine running for any extended length of time.
- Keep the trunk lid closed while driving, otherwise exhaust gases could be drawn into the passenger compartment. If you must drive with the trunk lid open, follow these precautions:
 - 1. Open all the windows.
 - 2. Set the air recirculation button to off and the fan control dial to high to circulate the air.
- If electrical wiring or other cable connections must pass to a trailer through
 the seal on the trunk lid or the body,
 follow the manufacturer's recommendation to prevent carbon monoxide entry into the vehicle.
- The exhaust system and body should be inspected by a qualified mechanic whenever:

- a. The vehicle is raised for service.
- b. You suspect that exhaust fumes are entering into the passenger compartment.
- c. You notice a change in the sound of the exhaust system.
- d. You have had an accident involving damage to the exhaust system, underbody, or rear of the vehicle.

THREE-WAY CATALYST

The three-way catalyst is an emission control device installed in the exhaust system. Exhaust gases in the three-way catalyst are burned at high temperatures to help reduce pollutants.

AWARNING

- The exhaust gas and the exhaust system are very hot. Keep people, animals or flammable materials away from the exhaust system components.
- Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.

A CAUTION

- 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 three-way catalyst, causing it to overheat. Do not keep driving if the engine misfires, or if noticeable loss of performance or other unusual operating conditions are detected. Have the vehicle inspected promptly by a NISSAN 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.

AVOIDING COLLISION AND ROLLOVER

AWARNING

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, loss of control could result in a collision with other vehicles or objects, or cause the vehicle to roll over, 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 "Safety - Seats, seat belts and supplemental air bags" section of this manual, and also instruct your passengers to do so.

Seat belts help reduce the risk of injury in collisions and rollovers. In a rollover crash, an unbelted or improperly belted person is significantly more likely to be injured or killed than a person wearing a seat belt.

DRINKING ALCOHOL/DRUGS AND DRIVING

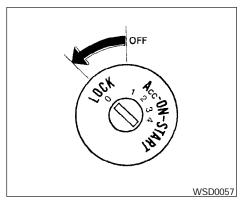
AWARNING

Never drive under the influence of alcohol or drugs. Alcohol in the bloodstream reduces coordination, delays reaction time and impairs judgement. Driving after drinking alcohol increases the likelihood of being involved in an accident injuring yourself and others. Additionally, if you are injured in an accident, alcohol can increase the severity of the injury.

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

Remember, drinking and driving don't mix! And that is 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



AUTOMATIC TRANSMISSION

On automatic transmission models, the ignition lock is designed so the key cannot be turned to LOCK position and removed until the shift selector lever is moved to the P (Park) position.

When removing the key from the ignition, make sure the shift selector lever is in the P (Park) position.

If the selector lever is not returned to P (Park) position, the key cannot be move to the LOCK position.

When the key cannot be turned to the LOCK position, proceed as follows to remove the key.

- 1. Move the shift selector lever into the P (Park) position.
- 2. Turn the ignition key slightly toward the ON position.
- 3. Turn the key to the LOCK position.
- 4. Remove the key.

The shift selector lever is designed so it cannot moved out of P (Park) and into any of the other gear positions if the ignition key is turned to OFF position or if the key is removed from the switch.

The shift selector lever can be moved if the ignition switch is in the ACC position. This allows the vehicle to be moved if the battery is discharged. The shift selector lever can also be moved if the ignition switch is in the ON position and the foot brake pedal is depressed.

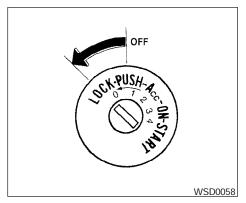
There is an OFF position between the LOCK and ACC positions. The OFF position is indicated by a "1" on the key cylinder. When the ignition is in the OFF position, the steering wheel is not locked.

In order for the steering wheel to be locked, it must be turned about 1/8 of a turn clockwise from the straight up position.

To lock the steering wheel, turn the key to the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

AWARNING

Never remove or turn the key to the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.



MANUAL TRANSMISSION

The ignition switch includes a device that helps prevent accidental removal of the key while driving.

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

On manual transmission models, to turn the ignition key to LOCK position from ACC or ON position, turn the key to OFF, push the key in, then turn the key to LOCK.

In order for the steering wheel to be locked, it must be turned about 1/8 of a turn clockwise from the straight up position.

To lock the steering wheel, turn the key to the LOCK position. Remove the key. To unlock the steering wheel, insert the key and turn it gently while rotating the steering wheel slightly right and left.

AWARNING

Never remove or turn the key to the LOCK position while driving. The steering wheel will lock. This may cause the driver to lose control of the vehicle and could result in serious vehicle damage or personal injury.

KEY POSITIONS

LOCK: Normal parking position (0)

OFF: (Manual transmission model) (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 starts the engine. As soon as the engine has started, release the key. It automatically returns to the ON position.

NISSAN VEHICLE IMMOBILIZER SYSTEM (NVIS)

The NISSAN Vehicle Immobilizer System (NVIS) will not allow the engine to start without the use of the registered NVIS key.

If the engine fails to start using the registered NVIS key, it may be due to interference caused by another NVIS key, an automated toll road device or automated payment device on the key ring. Restart the engine using the following procedures:

- Leave the ignition switch in the ON position for approximately 5 seconds.
- 2. Turn the ignition switch to the OFF or LOCK position and wait approximately 5 seconds.
- 3. Repeat step 1 and 2 again.
- Restart the engine while holding the device (which may have caused the interference) separate from the registered NVIS key.

If this procedure allows the engine to start, NISSAN recommends placing the registered NVIS key on a separate key ring to avoid interference from other devices.

BEFORE STARTING THE ENGINE

- Make sure the area around the vehicle is clear.
- Check fluid levels such as engine oil, coolant, brake and clutch fluid, and window washer fluid as frequently as possible, or at least whenever you refuel.
- Check that all windows and lights are clean.
- Visually inspect tires for their appearance and condition. Also check tires for proper inflation.
- Lock all doors.
- Position seat and adjust head restraints.
- Adjust inside and outside mirrors.
- Fasten seat belts and ask all passengers to do likewise.
- Check the operation of warning lights when the key is turned to the ON (3) position. See "Warning/indicator lights and audible reminders" in the "Instruments and controls" section of this manual.

STARTING THE ENGINE

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

Move the shift selector lever to P (Park) or N (Neutral). P (Park) is recommended.

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

The starter is designed not to operate if the shift selector lever is in any of the driving positions.

Manual transmission:

Move the shift lever to N (Neutral). Depress the clutch pedal to the floor while cranking the engine.

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

- If the engine is very hard to start in extremely cold weather or when restarting, depress the accelerator pedal a little (approximately 1/5 to the floor) and hold it and then crank the engine. Release the key and the accelerator pedal when the engine starts.
- If the engine is very hard to start because it is flooded, depress the accelerator pedal all the way to the floor and hold it. Crank the engine for 5-6 seconds. After cranking the engine, release the accelerator pedal. Crank the engine with your foot off the accelerator pedal by turning the ignition key to START. Release the key when the engine starts. If the engine starts, but fails to run, repeat the above procedure.

A CAUTION

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

4. Allow the engine to idle for at least 30 seconds after starting. Drive at moderate speed for a short distance first, especially in cold weather.

DRIVING THE VEHICLE

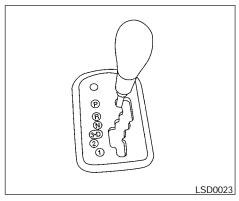
AUTOMATIC TRANSMISSION (if so equipped)

AWARNING

- Do not depress the accelerator pedal while shifting from P (Park) or N (Neutral) to R (Reverse), D (Drive), 3, 2 or 1. Always depress the brake pedal until shifting is completed. Failure to do so could cause vou to lose control and have an accident.
- Cold engine idle speed is high, so use caution when shifting into a forward or reverse gear before the engine has warmed up.
- Never shift to P (Park) or R (Reverse) while the vehicle is moving. This could cause an accident.

A CAUTION

- When stopping the vehicle on an uphill grade, do not hold the vehicle by depressing the accelerator pedal. The foot brake should be used for this purpose.
- Do not downshift abruptly on slippery roads. This may cause a loss of control.



Gate type shift

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

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

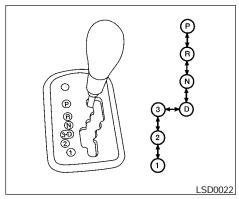
Starting the vehicle

1. After starting the engine, fully depress the foot brake pedal before attempting to move the shift selector lever out of the P (Park) position.

- 2. Keep the foot brake pedal depressed and move the shift selector lever into a driving gear.
- 3. Release the foot brake, then gradually start the vehicle in motion.

The automatic transmission is designed so the foot brake pedal MUST be depressed before shifting from P (Park) to any drive position while the ignition switch is in the ON position.

The shift selector lever cannot be moved out of P (Park) and into any of the other gear positions if the ignition key is turned to the LOCK, OFF or ACC position or if the key is removed.



Shifting

After starting the engine, fully depress the brake pedal and move the shift selector lever out of the P (Park) position.

AWARNING

Apply the parking brake if the selector lever is in any position while the engine is not running. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in serious personal injury or property damage.

If the key is turned to the OFF or ACC position for any reason while the vehicle is in N (Neutral), or any D (Drive) position, the shift selector lever cannot be moved to P (Park). Additionally, the key cannot be turned to the LOCK position and be removed from the ignition switch. If this occurs, perform the following steps:

- Apply the parking brake when the vehicle is stopped.
- 2. Turn the key to the ON position.
- 3. Depress the foot brake pedal.
- 4. Move the shift selector lever to P (Park) or N (Neutral) to restart the vehicle (P is preferred). Move the shift selector lever to P (Park) to park the vehicle and turn the ignition key to the LOCK position to remove the key.

P (Park):

Use this selector position when the vehicle is parked or when starting the engine. Make sure the vehicle is completely stopped. The brake pedal must be depressed to move the selector lever from N (Neutral) or any drive position to P (Park). Apply the parking brake. When parking on a hill, apply the parking brake first, then move the shift selector lever into the P (Park) position.

R (Reverse):

A CAUTION

Use this position only when the vehicle is completely stopped.

Use this position to back up. Make sure the vehicle is completely stopped before selecting the R (Reverse) position. The brake pedal must be depressed to move the selector lever from P (Park), N (Neutral) or any drive position to R (Reverse).

N (Neutral):

Neither forward nor reverse gear is engaged. The engine can be started in this position. You may shift to N (Neutral) and restart a stalled engine while the vehicle is moving.

D (Drive):

Use this position for all normal forward driving.

3 (Third gear):

Use this position for driving up and down long slopes where engine braking would be advantageous.

2 (Second gear):

Use this position for hill climbing or engine braking on downhill grades.

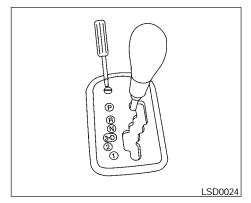
5-8 Starting and driving

Do not shift into the 2 position at speeds above 68 MPH (110 km/h). Do not exceed 68 MPH (110 km/h) in the 2 position.

1 (Low gear):

Use this position when climbing steep hills slowly or slow driving through deep snow, sand or mud, or for maximum engine braking on steep downhill grades.

Do not shift into the 1 position at speeds above 37 MPH (60 km/h). Do not exceed 37 MPH (60 km/h) in the 1 position.



Shift lock release

If the battery is discharged, the shift selector lever may not be moved from the P (Park) position even with the brake pedal depressed.

To move the shift selector lever, release the shift lock. The shift selector lever can be moved to N (Neutral). However, the steering wheel will be locked unless the ignition switch is turned to the ON position. This allows the vehicle to be moved if the battery is discharged.

To push the shift lock release, complete the following procedure:

- Turn the ignition key to the LOCK position and remove the key
- 2. Apply the parking brake.
- Remove the shift lock release cover as shown.
- 4. Insert a small screwdriver in the shift lock release slot and push down.
- Move the shift selector lever to the N (Neutral) position while holding down the shift lock release.
- Turn the key to the ON position to unlock the steering wheel. Now the vehicle may be moved to the desired location.

If the shift selector lever cannot be moved out of P (Park), have a NISSAN dealer check the automatic transmission system as soon as possible.

AWARNING

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

Accelerator downshift

- in D position -

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

Fail-safe

When the fail-safe operation occurs, the next time the key is turned to the ON position, the light in the instrument cluster of the selected shift position will blink for approximately 8 seconds after the ignition is turned ON. While the vehicle can be driven under these circumstances, please note that the automatic transmission will be locked in third gear.

If the vehicle is driven under extreme conditions, such as excessive wheel spinning and subsequent hard braking, the fail-safe system may be activated. This will occur even if all electrical circuits are functioning properly. In this case, turn the ignition key OFF and wait for 3 seconds. Then turn the key back to the ON position. The vehicle should return to its normal operating condition. If it does not return to its normal operating condition, have a NISSAN dealer check the transmission and repair it if necessary.

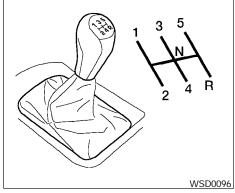
MANUAL TRANSMISSION

AWARNING

- Do not downshift abruptly on slippery roads. This may cause a loss of control.
- Do not over-rev the engine when shifting to a lower gear. This may cause a loss of control or engine damage.

ACAUTION

- Do not rest your foot on the clutch pedal while driving. This may cause clutch damage.
- Fully depress the clutch pedal before shifting to help prevent transmission damage.
- Stop your vehicle completely before shifting into R (Reverse).
- When the vehicle is stopped with the engine running (for example, at a stop light), shift to N (Neutral) and release the clutch pedal with the foot brake applied.



Shifting

To change gears, or when upshifting or downshifting, depress the clutch pedal fully, shift into the appropriate gear, then release the clutch slowly and smoothly.

To ensure smooth gear changes, fully depress the clutch pedal before operating the shift lever. If the clutch pedal is not fully depressed before the transmission is shifted, a gear noise may be heard. Transmission damage could occur.

You cannot shift directly from 5th gear into R (Reverse). First shift into N (Neutral), then into R (Reverse).

5-10 Starting and driving

If it is difficult to move the shift lever into R (Reverse) or 1 (1st), shift into N (Neutral), then release the clutch pedal. Depress the clutch pedal again and shift into R (Reverse) or 1 (1st).

Suggested upshift speeds

The following are suggested vehicle speeds for shifting into a higher gear. These suggestions relate to fuel economy and vehicle performance. Actual upshift speeds will vary according to road conditions, the weather and individual driving habits.

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

For QR25DE:

GEAR CHANGE	ACCEL shift point MPH (km/h)	CRUISE shift point MPH (km/h)
1st to 2nd	15 (24)	15 (24)
2nd to 3rd	25 (40)	18 (28)
3rd to 4th	36 (57)	30 (48)
4th to 5th	40 (64)	39 (62)

For VQ35DE:

GEAR CHANGE	ACCEL shift point MPH (km/h)	CRUISE shift point MPH (km/h)
1st to 2nd	13 (21)	13 (21)
2nd to 3rd	23 (37)	16 (26)
3rd to 4th	33 (53)	27 (44)
4th to 5th	39 (63)	36 (58)

For quick acceleration in low altitude areas and 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.

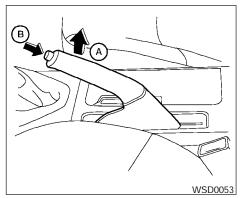
Do not exceed the maximum suggested speed (shown below) in any gear. For level road driving, use the highest gear suggested for that speed. Always observe posted speed limits, and drive according to the road conditions, which will ensure safe operation. Do not over-rev the engine

when shifting to a lower gear as it may cause engine damage or loss of vehicle control.

GEAR	QR25DE MPH (km/h)	VQ35DE MPH (km/h
1st	30 (50)	35 (55)
2nd	55 (90)	65 (105)
3rd	_	_
4th	_	_
5th	_	_

AWARNING

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



To engage: Pull the lever up (A).

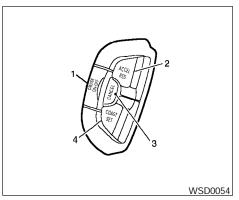
To release:

- 1. Firmly apply the foot brake.
- Manual transmission models:
 Place the shift lever in the N (Neutral) position.

Automatic transmission models:

Move the shift selector lever to the P (Park) position.

- 3. While pulling up on the parking brake lever slightly, push the button and lower completely (B).
- 4. Before driving, be sure the brake warning light goes out.



- Cruise control main switch.
- 2. RES/ACCEL switch
- 3. CANCEL switch
- COAST/SET switch

PRECAUTIONS ON CRUISE CONTROL

- If the cruise control system malfunctions, it cancels automatically. The SET indicator light in the instrument panel then blinks to warn the driver.
- If the SET indicator light blinks, turn the cruise control main switch off and have the system checked by a NISSAN dealer.

 The SET 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, use the following procedures.

AWARNING

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

- When it is not possible to keep the vehicle at a set speed.
- In heavy traffic or in traffic that varies in speed.
- On winding or hilly roads.
- On slippery roads (rain, snow, ice, etc.).
- In very windy areas.

Doing so could cause a loss of vehicle control and result in an accident.

A CAUTION

On manual transmission models, do not shift into N (Neutral) without depressing the clutch pedal when the cruise control is set. Should this occur, depress the clutch pedal and turn the main switch off immediately. Failure to do so may cause engine damage.

CRUISE CONTROL OPERATIONS

The cruise control allows driving at a speed between 30 - 90 MPH (48 - 144 km/h) without keeping your foot on the accelerator pedal.

To turn on the cruise control, push the main switch. The CRUISE indicator light in the instrument panel comes on.

To set cruising speed, accelerate the vehicle to the desired speed, push the COAST/SET switch and release it. The SET indicator light in the instrument panel comes on. Take your foot off the accelerator pedal. Your vehicle maintains the set speed.

- To pass another vehicle, depress the accelerator pedal. When you release the pedal, the vehicle returns 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, use one of the following three methods.

- Push the CANCEL button; the SET indicator light in the instrument panel goes out.
- Tap the brake pedal; the SET indicator light goes out.
- Turn the main switch off. Both the CRUISE indicator light and SET indicator light in the instrument panel go out.

The cruise control is automatically canceled and the SET light in the instrument panel goes out if:

- you depress the brake or clutch pedal while pushing the ACCEL/RES or SET/COAST switch. The preset speed is deleted from memory.
- the vehicle slows down more than 8 MPH (13 km/h) below the set speed.
- you depress the clutch pedal (manual transmission), or move the shift selector lever to N (Neutral) (automatic transmission).

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

 Depress the accelerator pedal. When the vehicle attains the desired speed, push and release the COAST/SET switch.

BREAK-IN SCHEDULE

- Push and hold the RES/ACCEL switch. When the vehicle attains the speed you desire, release the switch.
- Push and release the RES/ACCEL switch. Each time you do this, the set speed increases by about 1 MPH (1.6 km/h).

To reset at a slower cruising speed, use one of the following three methods.

- Lightly tap the brake pedal. When the vehicle attains the desired speed, push the COAST/SFT switch and release it.
- Push and hold the COAST/SET switch. Release the switch when the vehicle slows to the desired speed.
- Push and release the COAST/SFT switch. Each time you do this, the set speed decreases by about 1 MPH (1.6 km/h).

To resume the preset speed, push and release the RES/ACCEL switch. The vehicle returns to the last set cruising speed when the vehicle speed is over 30 MPH (48 km/h).

A CAUTION

During the first 1,200 miles (2,000 km), follow these recommendations to obtain maximum engine performance and ensure the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in shortened engine life and reduced engine performance.

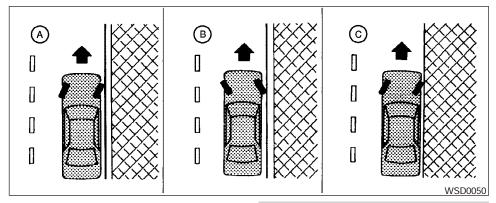
- Avoid driving for long periods at constant speed, either fast or slow, and do not run the engine over 4,000 rpm.
- Do not accelerate at full throttle in any gear.
- Avoid quick starts.
- Avoid hard braking as much as possible.
- Do not tow a trailer for the first 500 miles (800 km). Your engine, axle or other parts could be damaged.

INCREASING FUEL ECONOMY

- Accelerate slowly and smoothly. Maintain cruising speeds with a constant accelerator position.
- Drive at moderate speeds on the highway. Driving at high speed lowers 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 to the correct pressure. Low tire pressure increases tire wear and lowers fuel economy.
- Keep the wheels in correct alignment. Improper alignment increases tire wear and lowers fuel economy.
- Air conditioner operation lowers fuel economy. Use the air conditioner only when necessary.

PARKING/PARKING ON HILLS

- When cruising at highway speeds, it is more economical to use the air conditioner and leave the windows closed to reduce drag.
- Use the recommended viscosity engine oil. See "Engine oil and oil filter recommendation" in "Technical and consumer information" later in this manual.



AWARNING

- Do not stop or park the vehicle over flammable materials such as dry grass, waste paper or rags. They may ignite and cause a fire.
- Safe parking procedures require that both the parking brake be set and the transmission placed into P (Park) for automatic transmission models or in an appropriate gear for manual transmission models. Failure to do so could cause the vehicle to move unexpectedly or roll away and result in an accident. Make sure the shift lever has been pushed as far forward as it can go and cannot be moved without depressing the foot brake pedal.
- Never leave the engine running while the vehicle is unattended.

- Do not leave children unattended inside the vehicle. They could unknowingly activate switches or controls. Unattended children could become involved in serious accidents.
- 1. Firmly apply the parking brake.

2. Manual transmission models:

Place the shift lever in the R (Reverse) position. When parking on an uphill grade, place the shift lever in 1st gear.

Automatic transmission models:

Move the shift selector lever to the P (Park) position.

- To help prevent the vehicle from rolling into traffic when parked on an incline, it is a good practice to turn the wheels as illustrated.
- HEADED DOWNHILL WITH CURB: (A)

Turn the wheels into the curb and move the vehicle forward until the curb side wheel gently touches the curb.

HEADED UPHILL WITH CURB: B

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: ©

Turn the wheels toward the side of the road so the vehicle will move away from the center of the road if it moves.

4. Turn the ignition key to the LOCK position and remove the key.

POWER STEERING

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

If the engine stops or the drive belt breaks, you will still have control of the vehicle. However, much greater steering effort is needed, especially in sharp turns and at low speeds.

WARNING

If the engine is not running or is turned off while driving, the power assist for the steering will not work. Steering will be much harder to operate.

5-16 Starting and driving

BRAKE SYSTEM

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

BRAKE PRECAUTIONS

Vacuum assisted brakes

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

Using the brakes

Avoid resting your foot on the brake pedal while driving. This will overheat the brakes, wear out the brake linings and pads faster, and reduce gas mileage.

To help reduce brake wear and to prevent the brakes from overheating, reduce speed and downshift to a lower gear before going down a slope or long grade. Overheated brakes may reduce braking performance and could result in loss of vehicle control.

AWARNING

- While driving on a slippery surface, be careful when braking, accelerating or downshifting. Abrupt braking or accelerating could cause the wheels to skid and result in an accident.
- If the engine is not running or is turned off while driving, the power assist for the brakes will not work. Braking will be harder.

Parking brake bedding

The parking brake shoes must be "bedded down" whenever the stopping effect of the parking brake is weakened or whenever the parking brake shoes and/or drum/rotors are replaced, in order to assure the best brake performance.

This procedure is described in the vehicle service manual and can be performed by a NISSAN dealer.

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 the 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.

ANTI-LOCK BRAKE SYSTEM (ABS) (if so equipped)

The anti-lock brake system controls the brakes so the wheels do 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.

AWARNING

Do not pump the brake pedal. Doing so may result in increased stopping distances.

Normal operation

The anti-lock brake system does not operate at speeds below 3 - 6 MPH (5 - 10 km/h). (The speeds vary according to road conditions.)

When driving, the anti-lock brake system controls the wheels so they will not lock when braking abruptly or when braking on a slippery road. Thus, difficult steering and swerving of the vehicle due to locked wheels is minimized. The system detects the wheel rotation rate and electronically controls the pressure applied to each brake. Slight vibration on the brake pedal accompanied by noise usually occurs while the ABS system is operating. Such vibration and noise encountered during abrupt braking is not a problem, but indicates that the system is functioning 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 and hydraulic solenoids controlled by a computer. The computer has a built-in diagnostic feature that tests the system each time you start the engine and move the vehicle at a low speed in forward or reverse. When the self-test occurs, you may hear a "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 system then operates normally, but without anti-lock assistance.

If a malfunction occurs in the system, the antilock function will not operate, but the standard vehicle brake system will continue to operate normally. The ABS brake warning light will then come on.

If the light comes on during the self-test or while driving, take the vehicle to a NISSAN dealer for repair.

AWARNING

The anti-lock brake system is a sophisticated device, but it cannot prevent accidents resulting from careless or dangerous driving techniques. It can help maintain vehicle control during braking on slipperv surfaces, but remember that the stopping distance on slippery surfaces will be longer than on normal surfaces even with the anti-lock brake system. Stopping distances may also be longer on rough, gravel or snow covered roads, or if you are using tire chains. Tire type and condition may also affect braking effectiveness. Always maintain a safe distance from the vehicle in front of you. Ultimately, the responsibility for safety of self and others rests in the hands of the driver.

- Tire type and condition of tires may also affect braking effectiveness.
- When replacing tires, install the specified size of tires on all four wheels.
- When installing a spare tire, make sure it is the proper size and type as specified on the tire placard. For tire placard location information, refer to "Tire placard" in the "Technical and consumer information" section of this manual.
- Refer to "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.

5-18 Starting and driving

TRACTION CONTROL SYSTEM (TCS) (if so equipped)

When accelerating on slippery surfaces the tire may spin or slip. With the vehicle traction control system, sensors detect these movements and control the braking and engine output to help improve vehicle stability while accelerating.

- When the traction control system is operating, the slip indicator in the instrument panel blinks.
- If the slip indicator blinks, the vehicle is under slippery conditions. Be sure to drive carefully. See "Slip indicator light" and "Traction control off indicator light" in the "Instruments and controls" section of this manual.
- If a malfunction occurs in the system, and DEF the SLIP indicator lights come on in the meter panel.

As long as these warning lights are on, the traction control function is canceled. The vehicle will behave like a vehicle without the system.

WARNING

- The traction control system is designed to help improve driving stability but does not prevent accidents due to abrupt steering operation at high speeds or by careless or dangerous driving techniques. Reduce vehicle speed and be especially careful when driving and cornering on slippery surfaces and always drive carefully.
- If brake related parts such as brake pads, rotors and calipers are not standard equipment or are extremely deteriorated, the traction control system may not operate properly and the OFF indicator light may come on.
- Do not modify the vehicle's suspension. If suspension parts such as shock absorbers, struts, springs and bushings are not standard equipment or are extremely deteriorated, the traction control system may not operate properly and the OFF indicator light may come on.

- When driving on extremely inclined surfaces such as higher banked corners. the traction control system may not operate properly and the OFF indicator light may come on. Do not drive on these types of roads.
- If wheels or tires other than the recommended ones are used, the traction control system may not operate properly and the OFF indicator light may come on.
- The traction control system is not a substitute for winter tires or tire chains on a snow covered road.

COLD WEATHER DRIVING

FREEING A FROZEN DOOR LOCK

To prevent a door lock from freezing, apply deicer 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 the anti-freeze to assure proper winter protection. For details, see "Engine cooling system" in the "Maintenance and do-it-yourself" section of this manual.

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 "Maintenance and do-it-yourself" section of this manual.

DRAINING OF COOLANT WATER

If the vehicle is to be left outside without antifreeze, drain the cooling system, including the engine block. Refill before operating the vehicle. For details, see "Changing engine coolant" in the "Maintenance and do-it-yourself" section of this manual.

TIRE EQUIPMENT

- 1. SUMMER tires have a tread designed to provide superior performance on dry pavement. However, the performance of these tires will be substantially reduced in snowy and icy conditions. If you operate your vehicle on snowy or icy roads, NISSAN recommends the use of MUD & SNOW or ALL SEASON TIRES on all four wheels. Please consult a NISSAN dealer for the tire type, size, speed rating and availability information.
- For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires.

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

3. Tire chains may be used.

Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are of proper size for

the tires on your vehicle and are installed according to the chain manufacturer's suggestions. Use only SAE Class "S" chains. Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the minimum clearances between the tire and the closest vehicle suspension or body component reguired to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tire size. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

Never install tire chains on spare tires. Do not use tire chains on dry roads.

SPECIAL WINTER EQUIPMENT

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

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

DRIVING ON SNOW OR ICE

AWARNING

- Wet ice (32°F, 0°C and freezing rain), very cold snow or ice can be slick and very hard to drive on. The vehicle will have much less traction or "grip" under these conditions. Try to avoid driving on wet ice until the road is salted or sanded.
- Whatever the condition, drive with caution. Accelerate and slow down with care. If accelerating or downshifting too fast, the drive wheels will lose even more traction.

- Allow more stopping distance under these conditions. Braking should be started sooner than on dry pavement.
- Allow greater following distances on slipperv roads.
- Watch for slippery spots (glare ice). These may appear on an otherwise clear road in shaded areas. If a patch of ice is seen ahead, brake before reaching it. Try not to brake while on the ice, and avoid any sudden steering maneuvers.
- Do not use the cruise control on slipperv roads.
- Snow can trap dangerous exhaust gases under vour vehicle. Keep snow clear of the exhaust pipe and from around your vehicle.

ENGINE BLOCK HEATER (if so equipped)

An engine block heater to assist in extreme cold temperature starting is available through a NISSAN dealer.

AWARNING

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

MEMO

6 In case of emergency

Flat tire6-2
Changing a flat tire6-2
Jump starting 6-6
Push starting6-8

It your vehicle overheats	 ٠.	. 6-8
Towing your vehicle	 	. 6-9
Towing recommended by NISSAN	 	6-10
Vehicle recovery (freeing a stuck vehicle)	 	6-11

FLAT TIRE

CHANGING A FLAT TIRE

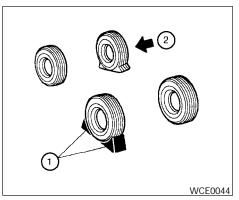
If you have a flat tire, follow the instructions below.

Stopping the vehicle

- 1. Safely move the vehicle off the road and away from traffic.
- 2. Turn on the hazard warning flashers.
- 3. Park on a level surface and apply the parking brake. Shift the manual transmission into R (Reverse), or the automatic transmission into P (Park).
- 4. Turn off the engine.
- 5. Raise the hood to warn other traffic and to signal professional road assistance personnel that you need assistance.
- 6. Have all passengers get out of the vehicle and stand in a safe place, away from traffic and clear of the vehicle.

AWARNING

- Make sure the parking brake is securely applied and the manual transmission is shifted into R (Reverse), or the automatic transmission into P (Park).
- Never change tires when the vehicle is on a slope, ice or slippery areas. This is hazardous.
- Never change tires if oncoming traffic is close to your vehicle. Wait for professional road assistance.

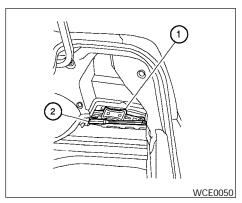


Blocking wheels

Place suitable blocks (1) at both the front and back of the wheel diagonally opposite the flat tire (2) to prevent the vehicle from rolling when it is iacked up.

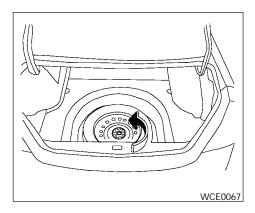
AWARNING

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



Getting the spare tire and tools

Open the trunk. Lift the trunk floor carpeting and spare tire cover. Remove the jack ① and wheel nut wrench ② from the tool box. Remove the spare tire.

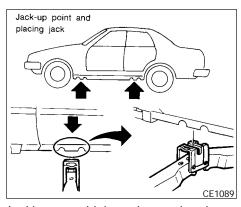


Removing the bolt-on wheel cover (if so equipped)

A CAUTION

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

The wheel covers are held on by the wheel nuts. The wheel cover will be removed along with the wheel when the nuts are removed.

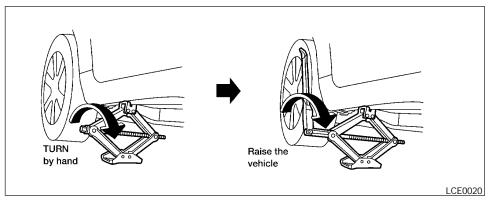


Jacking up vehicle and removing the damaged tire

AWARNING

- Never get under the vehicle while it is supported only by the jack.
- Use only the jack provided with your vehicle to lift the vehicle. Do not use the jack provided with your vehicle on other vehicles. The jack is designed for lifting only your vehicle during a tire change.

- Use the correct jack-up points. Never use any other part of the vehicle for jack support.
- Never jack up the vehicle more than necessary.
- Never use blocks on or under the jack.
- Do not start or run the engine while vehicle is on the lack. It may cause the vehicle to move. This is especially true vehicles with limited for slip differentials.
- Do not allow passengers to stay in the vehicle while it is on the lack.
- Never run the engine with a wheel(s) off the ground. It may cause the vehicle to move.



Always refer to the proper illustrations for the correct placement and jack-up points for your specific vehicle model and jack type.

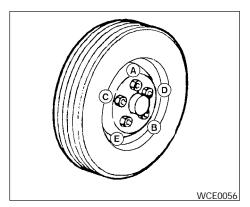
Carefully read the caution label attached to the jack body and the following instructions.

1. 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.

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

The jack should be used on firm and level ground.

3. To lift the vehicle, securely hold the jack lever and rod with both hands. Carefully raise the vehicle until the tire clears the ground. Remove the wheel nuts, and then remove the tire.



Installing the spare tire

The spare tire is designed for emergency use. See specific instructions under the heading "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.

- Clean any mud or dirt from the surface between the wheel and hub.
- 2. Carefully put the spare tire on and tighten the wheel nuts finger tight.
- With the wheel nut wrench, tighten wheel nuts alternately and evenly as illustrated until they are tight.

Lower the vehicle slowly until the tire touches the ground. Then, with the wheel nut wrench, tighten the wheel nuts securely in the sequence illustrated (A, B, C, D, E). Lower the vehicle completely.

AWARNING

- Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose or come off.
 This could cause an accident.
- Do not use oil or grease on the wheel studs or nuts. This could cause the nuts to become loose.
- Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

Wheel nut tightening torque:

80 ft-lb (108 N·m)

The wheel nuts must be kept tightened to specification at all times. It is recommended that wheel nuts be tightened to specifications at each lubrication interval.

Adjust tire pressure to the COLD pressure.

COLD pressure: After 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.

- Securely store the flat tire and jacking equipment in the vehicle.
- 6. Place the spare tire cover and the trunk floor carpeting over the damaged tire.
- Close the trunk.

AWARNING

- Always make sure that the spare tire and jacking equipment are properly secured after use. Such items can become dangerous projectiles in an accident or sudden stop.
- The spare tire is designed for emergency use. See specific instructions under the heading "Wheels and tires" in the "Maintenance and do-it-yourself" section of this manual.

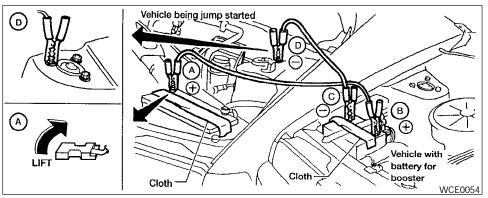
JUMP STARTING

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

AWARNING

- If done incorrectly, jump starting can lead to a battery explosion, resulting in severe injury or death. It could also damage your vehicle.
- Explosive hydrogen gas is always present in the vicinity of the battery. Keep all sparks and flames away from the battery.
- Do not allow battery fluid to come into contact with eyes, skin, clothing or painted surfaces. Battery fluid is a corrosive sulfuric acid solution which can cause severe burns. If the fluid should come into contact with anything, immediately flush the contacted area with water.
- Keep battery out of the reach of children.
- The booster battery must be rated at 12 volts. Use of an improperly rated battery can damage your vehicle.

- Whenever working on or near a battery, always wear suitable eye protectors (for example, goggles or industrial safety spectacles) and remove rings, metal bands, or any other iewelry. Do not lean over the battery when jump starting.
- Do not attempt to jump start a frozen battery. It could explode and cause serious injury.
- Your vehicle has an automatic engine cooling fan. It could come on at any time. Keep hands and other objects away from it.



AWARNING

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

 If the booster battery is in another vehicle, position the two vehicles to bring their batteries near each other.

Do not allow the two vehicles to touch.

- 2. Apply the parking brake. Move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission). Switch off all unnecessary electrical systems (lights, heater, air conditioner, etc.).
- Remove vent caps on the battery (if so equipped). Cover the battery with an old cloth to reduce explosion hazard.
- Connect jumper cables in the sequence illustrated (A, B, C, D).

A CAUTION

- Always connect positive (+) to positive (+) and negative (-) to body ground (for example, strut mounting bolt, engine lift bracket, etc.) — not to the battery.
- Make sure the jumper cables do not touch moving parts in the engine compartment and that the cable clamps do not contact any other metal.
- Start the engine of the booster vehicle and let it run for a few minutes.
- Keep the engine speed of the booster vehicle at about 2,000 rpm, and start the engine of the vehicle being jump started.

A CAUTION

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

- 7. After starting the engine, carefully disconnect the negative cable and then the positive cable.
- 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

IF YOUR VEHICLE OVERHEATS

AWARNING

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

If your vehicle is overheating (indicated by an extremely high temperature gauge reading), or if you feel a lack of engine power, detect abnormal noise, etc. take the following steps.

WARNING

- Do not continue to drive if your vehicle overheats. Doing so could cause engine damage or a vehicle fire.
- To avoid the danger of being scalded, never remove the radiator cap while the engine is still hot. When the radiator cap is removed, pressurized hot water will spurt out, possibly causing serious iniurv.
- Do not open the hood if steam is coming out.
- 1. Move the vehicle safely off the road, apply the parking brake and move the shift lever to N (Neutral) (manual transmission) or to P (Park) (automatic transmission).

Do not stop the engine.

2. Turn off the air conditioner (if so equipped). 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. (If steam or coolant is escaping, turn off the engine.) Do not open the hood further until no steam or coolant can be seen.
- 4. Open the engine hood.

AWARNING

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

5. Visually check drive belts for damage or looseness. Also check if the cooling fan is running. The radiator hoses and radiator should not leak water. If coolant is leaking, the water pump belt is missing or loose, or the cooling fan does not run, stop the engine.

AWARNING

Be careful not to allow your hands, hair, jewelry or clothing to come into contact with, or get caught in, engine belts or the engine cooling fan. The engine cooling fan can start at any time when the coolant temperature is high.

TOWING YOUR VEHICLE

 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 a NISSAN dealer. 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 a NISSAN dealer. Local service operators are generally familiar with the applicable laws and procedures for towing. To assure proper towing and to prevent accidental damage to your vehicle, NISSAN recommends having a service operator tow your vehicle. It is advisable to have the service operator carefully read the following precautions:

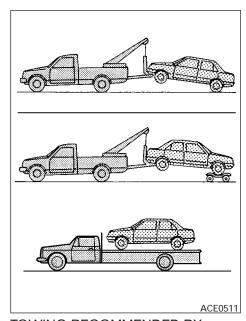
For information about towing your vehicle behind a recreational vehicle (RV), refer to "Flat towing" in the "Technical and consumer information" section of this manual.

AWARNING

- Never ride in a vehicle that is being towed.
- Never get under your vehicle after it has been lifted by a tow truck.

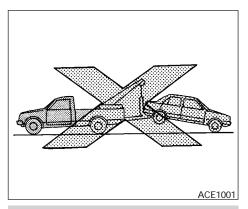
ACAUTION

- When towing, make sure that the transmission, axles, steering system and powertrain are in working condition. If any unit is damaged, dollies must be used.
- Always attach safety chains before towing.



TOWING RECOMMENDED BY NISSAN

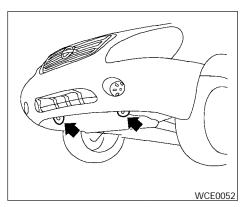
NISSAN recommends that your vehicle be towed with the driving (front) wheels off the ground or place the vehicle on a flat bed truck as illustrated.



A CAUTION

Never tow automatic transmission models with the front wheels on the ground or four wheels on the ground (forward or backward), as this may cause serious and expensive damage to the transmission. If it is necessary to tow the vehicle with the rear wheels raised always use towing dollies under the front wheels.

- When towing automatic transmission models with the front wheels on towing dollies, or when towing manual transmission models 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 secure
 the steering wheel by turning the ignition key to the LOCK position. This
 may damage the steering lock
 mechanism.
- Move the gearshift lever to the N (Neutral) position.
- When towing automatic or manual transmission models with the rear wheels on the ground (if you do not use towing dollies): Always release the parking brake.



VEHICLE RECOVERY (freeing a stuck vehicle)

Front

AWARNING

- Stand clear of a stuck vehicle.
- Do not spin your tires at high speed.
 This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

A CAUTION

- Use the towing hook only, not other parts of the vehicle. Otherwise, the vehicle body will be damaged.
- Use the towing hook only to free a vehicle stuck in sand, snow, mud, etc.
 Never tow the vehicle for a long distance using only the towing hook.
- The towing hook is under tremendous force when used to free a stuck vehicle.
 Always pull the cable straight out from the front or rear of the vehicle. Never pull the hook at an angle.
- Pulling devices should be routed so they do not touch any part of the suspension, steering, brake or cooling systems.
- Pull devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

Rear

AWARNING

- Stand clear of a stuck vehicle.
- Do not spin your tires at high speed.
 This could cause them to explode and result in serious injury. Parts of your vehicle could also overheat and be damaged.

ACAUTION

- Tow chains or cables must be attached 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 the vehicle at an angle.
- Pull devices such as ropes or canvas straps are not recommended for use in vehicle towing or recovery.

MEMO

7 Appearance and care

Cleaning exterior
Washing7-2
Waxing7-2
Removing spots
Underbody
Glass
Aluminum alloy wheels
Chrome parts
Cleaning interior7-4

Fl	oor mats	7-4
Se	eat belts	7-
Corro	osion protection	7-
M	lost common factors contributing to vehicle	
CC	orrosion	7-5
Er	nvironmental factors influence the rate of	
CC	orrosion	7-
To	protect your vehicle from corrosion	7-

CLEANING EXTERIOR

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

To protect the paint surfaces, please wash your vehicle as soon as you can:

- after a rainfall to prevent possible damage from acid rain.
- after driving on coastal roads.
- when contaminants such as soot, bird droppings, tree sap, metal particles or bugs get on the paint surface.
- when dust or mud builds up on the surface.

Whenever possible, store or park your vehicle inside a garage or in a covered area.

When it is necessary to park outside, park in a shady area or protect the vehicle with a body cover.

Be careful not to scratch the paint surface when putting on or removing the body cover.

WASHING

Wash dirt off with a wet sponge and plenty of water. Clean the vehicle thoroughly using a mild soap, a special vehicle soap or general purpose dishwashing liquid mixed with clean, lukewarm (never hot) water.

A CAUTION

- Do not wash the vehicle with strong household soap, strong chemical detergents, gasoline or solvents.
- Do not wash the vehicle in direct sunlight or while the vehicle body is hot, as the surface may become water-spotted.
- Avoid using tight-napped or rough cloths, such as washing mitts. Care must be taken when removing caked-on dirt or other foreign substances so the paint surface is not scratched or damaged.

Rinse the vehicle thoroughly 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 cleaned regularly. Take care 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.

A damp chamois can be used to dry the vehicle to avoid water spots.

WAXING

Regular waxing protects the paint surface and helps retain new vehicle appearance. After waxing, polishing is recommended to remove built-up residue and to avoid a "weathered" appearance.

A NISSAN 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.

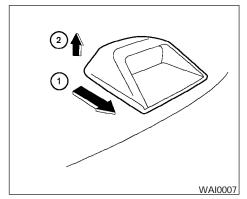
REMOVING SPOTS

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

7-2 Appearance and care

UNDERBODY

In areas where road salt is used in winter, it is necessary to clean the underbody regularly in order to prevent dirt and salt from building up and causing the acceleration of corrosion on the underbody and suspension. Before the winter period and again in the spring, the underseal must be checked and, if necessary, retreated.



GLASS

When cleaning the rear window, it may be easier to clean if the high-mounted stop light is removed first.

Be careful when removing the high-mounted stop light to reduce the risk of damaging the high-mounted stop light wires.

To remove the high-mounted stop light:

- Push toward rear of vehicle.
- Lift to remove.

The high-mounted stop light must be properly reinstalled before driving your vehicle.

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

A CAUTION

When cleaning the inside of the windows, do not use sharp-edged tools, abrasive cleaners or chlorine-based disinfectant cleaners. They could damage the electrical conductors, radio antenna elements or rear window defroster elements.

ALUMINUM ALLOY WHEELS

Wash the wheels regularly, especially during winter months in areas where road salt is used. If not removed, road salt could discolor the wheels.

CHROME PARTS

Clean all chrome parts regularly with a nonabrasive chrome polish to maintain the finish.

CLEANING INTERIOR

Occasionally remove loose dust from the interior trim, plastic parts and seats using a vacuum cleaner or soft brush. Wipe the vinyl and leather surfaces with a clean, soft cloth dampened in mild soap solution, then wipe clean with a dry, soft cloth. Before using any fabric protector, read the manufacturer's recommendations. Some fabric protectors contain chemicals that may stain or bleach the seat material.

Use a cloth dampened only with water to clean the meter and gauge lens.

A CAUTION

- Never use benzine, thinner or any similar material.
- Small dirt particles can be abrasive and damaging to leather surfaces and should be removed promptly. Do not use saddle soap, polishes, oils, cleaning fluids, solvents, detergents or ammonia-based cleaners as they may damage the leather's natural finish.
- Never use fabric protectors unless recommended by the manufacturer.
- Do not use glass or plastic cleaner on meter or gauge lens covers. It may damage the lens cover.

FLOOR MATS

The use of genuine NISSAN floor mats can extend the life of your vehicle carpet and make it easier to clean the interior. No matter what mats are used, be sure they are fitted for your vehicle and are properly positioned in the footwell to prevent interference with pedal operation. Mats should be maintained with regular cleaning and replaced if they become excessively worn.



Floor mat positioning aid (driver's side only)

This vehicle includes a front floor mat bracket to act as a floor mat positioning aid. NISSAN floor mats have been specially designed for your vehicle model. The driver's side floor mat has a grommet hole incorporated in it. Position the mat by placing the floor mat bracket hook through the floor mat grommet hole while centering the mat in the footwell.

Periodically check to make certain the mats are properly positioned.

CORROSION PROTECTION

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 in the shade before using them. See "Seat belt maintenance" in the "Safety - Seats, seat belts and supplemental air bags" section of this manual.

WARNING

Do not allow wet seat belts to roll up in the retractor. NEVER use bleach, dye or chemical solvents to clean the seat belts. since these materials may severely weaken the seat belt webbing.

MOST COMMON FACTORS CONTRIBUTING TO VEHICLE CORROSION

- 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.
- in areas where the temperatures stay above freezing.
- where atmospheric pollution exists.
- where road salt is used.

Temperature

High temperatures 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 accelerates the corrosion process. Road salt also accelerates the disintegration of paint surfaces.

TO PROTECT YOUR VEHICLE FROM CORROSION

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

A CAUTION

NEVER remove dirt, sand or other debris from the passenger compartment by washing it out with a hose. Remove dirt with a vacuum cleaner or broom.

Never allow water or other liquids to come in contact with electronic components inside the vehicle as this may damage them.

Chemicals used for road surface de-icing are extremely corrosive. They accelerate corrosion and deterioration of underbody components such as the exhaust system, fuel and brake lines, brake cables, floor pan and fenders.

In winter, the underbody must be cleaned periodically.

For additional protection against rust and corrosion, which may be required in some areas, consult a NISSAN dealer.

8 Maintenance and do-it-yourself

Maintenance requirements8-2	Replacing spark plugs	8-19
General maintenance8-2	Air cleaner	8-20
Explanation of general maintenance items 8-2	In-cabin microfilter (if so equipped)	8-21
Maintenance precautions8-5	Windshield wiper blades	
Engine compartment check locations 8-6	Cleaning	
Engine cooling system8-8	Replacing	
Checking engine coolant level8-8	Parking brake and brake pedal	8-25
Changing engine coolant8-9	Checking parking brake	8-25
Engine oil8-9	Checking brake pedal	
Checking engine oil level 8-9	Brake booster	8-26
Changing engine oil8-10	Fuses	8-26
Changing engine oil filter	Engine compartment	8-26
Automatic transmission fluid8-13	Passenger compartment	8-28
Temperature conditions for checking8-13	Keyfob battery replacement	8-29
Power steering fluid8-14	Lights	8-30
Brake and clutch fluid8-15	Headlights	8-30
Brake fluid	Front park/turn/sidemarker light	8-30
Clutch fluid	Fog lights (if so equipped)	8-30
Window washer fluid8-16	Exterior and interior lights	8-31
Window washer fluid reservoir 8-16	Wheels and tires	8-38
Battery	Tire pressure	8-38
Jump starting8-18	Types of tires	
Drive belts	Tire chains	8-40
Spark plugs8-19	Changing wheels and tires	8-40

MAINTENANCE REQUIREMENTS

Your new NISSAN 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 NIS-SAN's good mechanical condition, as well as its emission and engine performance.

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

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

Scheduled maintenance

For your convenience, both required and optional scheduled maintenance items are described and listed in your "NISSAN Service and Maintenance Guide." You must refer to that guide to ensure that necessary maintenance is performed on your NISSAN at regular intervals.

General maintenance

General maintenance includes those items which should be checked during normal day-to-day operation. They are essential for proper vehicle operation. It is your responsibility to perform these maintenance procedures regularly as prescribed.

Performing general maintenance checks requires minimal mechanical skill and only a few general automotive tools.

These checks or inspections can be done by you, a qualified technician, or, if you prefer, a NISSAN dealer.

Where to go for service

If maintenance service is required or your vehicle appears to malfunction, have the systems checked and corrected by a NISSAN dealer.

NISSAN technicians are well-trained specialists who 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 NISSAN vehicles before they work on your vehicle, rather than after they have worked on it.

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

GENERAL MAINTENANCE

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

When performing any checks or maintenance work, closely observe the "Maintenance precautions" later in this section.

EXPLANATION OF GENERAL MAINTENANCE ITEMS

Additional information on the following items with "*" is found later in this section.

Outside the vehicle

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

Doors and engine hood Check that the doors and engine hood operate properly. Also ensure that all latches lock securely. Lubricate hinges, latches, latch pins, rollers and links as 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.

8-2 Maintenance and do-it-vourself

Lights* Clean the headlights on a regular basis. Make sure that the headlights, stop lights, tail lights, turn signal lights, and other lights are all operating properly and installed securely. Also check headlight aim.

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

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

Tires* Check the pressure with a gauge often and always prior to long distance trips. If necessary, adjust the pressure in all tires, including the spare, to the pressure specified. Check carefully for damage, cuts or excessive wear.

Wheel alignment and balance If the vehicle should pull to either side while driving on a straight and level road, or if you detect uneven or abnormal tire wear, there may be a need for wheel alignment. If the steering wheel or seat vibrates at normal highway speeds, wheel balancing may be needed.

 For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet. **Windshield** Clean the windshield on a regular basis. Check the windshield at least every six months for cracks or other damage. Have a damaged windshield repaired by a qualified repair facility.

Windshield wiper blades* Check for cracks or wear if they do not wipe properly.

Inside the vehicle

The maintenance items listed here should be checked on a regular basis, such as when performing periodic maintenance, cleaning the vehicle, etc.

Additional information on the following items with an "*" is found later in this section.

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

Automatic transmission P (Park) position mechanism On a fairly steep hill check that your vehicle is held securely with the selector lever in the P position without applying any brakes.

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 certain to keep the floor mat away from the pedal.

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

Clutch pedal* Make sure the pedal operates smoothly and check that it has the proper free travel.

Parking brake* Check that the lever has the proper travel and confirm that your vehicle is held securely on a fairly steep hill with only the parking brake applied.

Seats Check seat position controls such as seat adjusters, seatback recliner, etc. to ensure they operate smoothly and all latches lock securely in every position. Check that the head restraints move up and down smoothly and the locks (if so equipped) hold securely in all latched positions.

Seat belts Check that all parts of the seat belt system (for example, buckles, anchors, adjusters and retractors) operate properly and smoothly, and are installed securely. Check the belt webbing for cuts, fraying, wear or damage.

Steering wheel Check for changes in the steering system, such as excessive freeplay, hard steering or strange noises.

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

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

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

Under the hood and vehicle

The maintenance items listed here should be checked periodically (for example, each time you check the engine oil or refuel).

Automatic transmission fluid level* Check the level after putting the selector lever in P with the engine idling at operating temperature.

Battery* Check the fluid level in each cell. It should be between the MAX and MIN lines. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

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

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

Engine drive belts* Make sure the drive belts are not frayed, worn, cracked or oily.

Engine oil level* Check the level after parking the vehicle on a level surface with the engine off. Wait more than 10 minutes for the oil to drain back into the oil pan.

Exhaust system Make sure there are no loose supports, cracks or holes. If the sound of the exhaust seems unusual or there is a smell of exhaust fumes, immediately have the exhaust system inspected by a NISSAN dealer. See the carbon monoxide warning in the "Starting and driving" section of this manual.

Fluid leaks Check under the vehicle for fuel, oil, water or other fluid leaks after the vehicle has been parked for a while. Water dripping from the air conditioner after use is normal. If you should notice any leaks or if gasoline fumes are evident, check for the cause and have it corrected immediately.

Power steering fluid level* and lines Check the level when the fluid is cold, with the engine off. Check the lines for proper attachment, leaks, cracks, etc.

Radiator and hoses Check the front of the radiator and clean off any dirt, insects, leaves, etc., that may have accumulated. Make sure the hoses have no cracks, deformation, rot or loose connections.

Underbody The underbody is frequently exposed to corrosive substances such as those used on icy roads or to control dust. It is very important to remove these substances from the underbody, otherwise rust may form on the floor pan, frame, fuel lines and exhaust system. At the end of winter, the underbody should be thoroughly flushed with plain water, in those areas where mud and dirt may have accumulated. See the "Appearance and care" section of this manual.

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

8-4 Maintenance and do-it-yourself

MAINTENANCE PRECAUTIONS

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

AWARNING

- Park the vehicle on a level surface, apply the parking brake securely and block the wheels to prevent the vehicle from moving. For manual transmission models, move the shift lever to N (Neutral). For automatic transmission models, move the selector lever to P (Park).
- Be sure the ignition key is in the OFF or LOCK position when performing any parts replacement or repairs.
- Never leave the engine or automatic transmission related component harnesses disconnected while the ignition switch is in the ON position.
- Never connect or disconnect the battery or any transistorized component while the ignition switch is in the ON position.
- Your vehicle is equipped with an automatic engine cooling fan. It may come on at any time without warning, even if the

ignition key is in the OFF position and the engine is not running. To avoid injury, always disconnect the negative battery cable before working near the fan.

- If you must work with the engine running, keep your hands, clothing, hair and tools away from moving fans, belts and any other moving parts.
- It is advisable to secure or remove any loose clothing and remove any jewelry, such as rings, watches, etc. before working on your vehicle.
- Always wear eye protection whenever you work on your vehicle.
- If you must run the engine in an enclosed space such as a garage, be sure there is proper ventilation for exhaust gases to escape.
- Never get under the vehicle while it is supported only by a jack. If it is necessary to work under the vehicle, support it with safety stands.
- Keep smoking materials, flame and sparks away from the fuel tank and battery.
- On gasoline engine models with the multiport fuel injection (MFI) system,

the fuel filter or fuel lines should be serviced by a NISSAN dealer because the fuel lines are under high pressure even when the engine is off.

ACAUTION

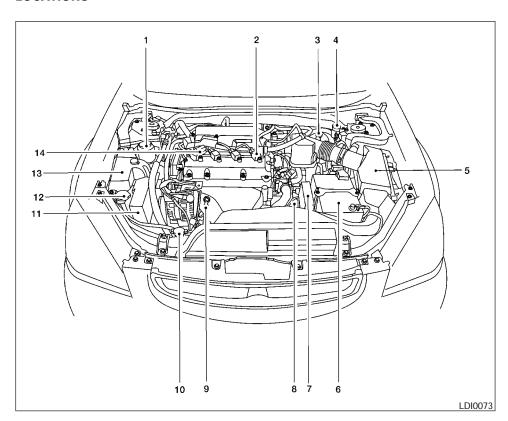
- Do not work under the hood while the engine is hot. Turn the engine off and wait until it cools down.
- Avoid contact with used engine oil and coolant. Improperly disposed engine oil, engine coolant and/or other vehicle fluids can damage the environment. Always conform to local regulations for disposal of vehicle fluid.

This "Maintenance and do-it-yourself" section gives instructions regarding only those items which are relatively easy for an owner to perform.

A genuine NISSAN service manual is also available. See "Owner's Manual/Service Manual order information" in the "Technical and consumer information" section of this manual.

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

ENGINE COMPARTMENT CHECK LOCATIONS

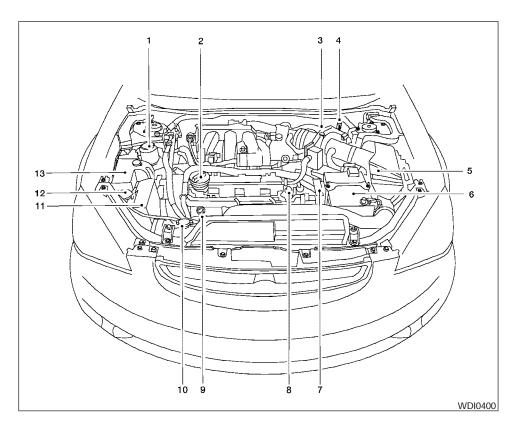


QR25DE engine

- Power steering fluid reservoir
- Spark plug caps
- Brake fluid reservoir
- Clutch fluid reservoir (M/T model)
- Air cleaner
- Battery
- Fuel/Fusible link box
- Transmission dipstick (A/T models)
- Engine oil dipstick
- 10. Radiator cap
- Fuse block
- 12. Windshield washer fluid reservoir
- 13. Coolant reservoir
- 14. Engine oil filler cap

NOTE:

Engine cover removed for clarity.



VQ35DE engine

- Power steering fluid reservoir
- Engine oil filler cap
- Brake fluid reservoir
- Clutch fluid reservoir (M/T model)
- Air cleaner
- Battery
- Fuse/Fusible link box
- Transmission dipstick (A/T models)
- Engine oil dipstick
- 10. Radiator cap
- Fuse block
- 12. Windshield washer fluid reservoir
- 13. Coolant reservoir

NOTE:

Engine cover removed for clarity.

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 engine cooling system additives are not necessary.

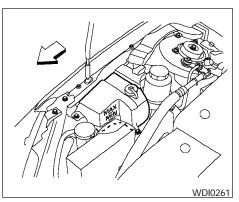
AWARNING

- Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.
- The radiator is equipped with a pressure type radiator cap. To prevent engine damage, use only a genuine NISSAN radiator cap.

Outside temperature down to		Genuine NISSAN Long Life	Demineral- ized or dis- tilled water
°C	°F	Anti-freeze Coolant or equivalent	
-35	-30	50%	50%

A CAUTION

When adding or replacing coolant, be sure to use only a Genuine NISSAN Long Life Anti-freeze Coolant (green) or equivalent with the proper mixture ratio of 50% antifreeze and 50% demineralized or distilled water. The use of other types of coolant solutions or coolant colors, such as orange, may damage the engine cooling system.



CHECKING ENGINE COOLANT I FVFI

Check the coolant level in the reservoir when the engine is cold. If the coolant level is below the MIN level, add coolant to the MAX level. If the reservoir 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 up to the MAX level.

If the cooling system frequently requires coolant, have it checked by a NISSAN dealer.

ENGINE OIL

CHANGING FNGINF COOLANT

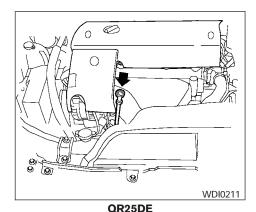
A NISSAN dealer can change the engine coolant. The service procedure can be found in the NISSAN Service Manual.

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

AWARNING

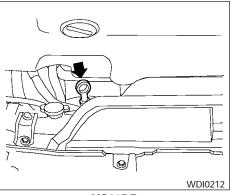
- To avoid the danger of being scalded, never change the coolant when the engine is hot.
- Never remove the radiator cap when the engine is hot. Serious burns could be caused by high pressure fluid escaping from the radiator.
- Avoid direct skin contact with used coolant. If skin contact is made, wash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

Engine coolant must be disposed of properly. Check your local regulations.



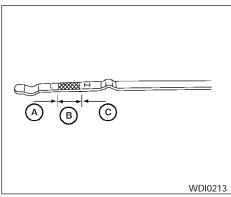
CHECKING ENGINE OIL LEVEL

- 1. Park the vehicle on a level surface and apply the parking brake.
- 2. Start the engine and let it idle until it reaches operating temperature.
- 3. Turn off the engine. Wait more than 10 minutes for the oil to drain back into the oil pan.



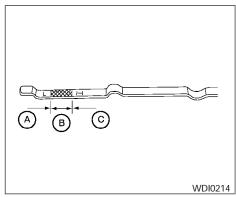
VQ35DE

4. Remove the dipstick and wipe it clean. Reinsert it all the way.



Type A

5. Remove the dipstick again and check the oil level. It should be between the H (High) and L (Low) marks (B). This is the normal operating oil level range. If the oil level is below the L (Low) mark A, remove the oil filler cap and pour recommended oil through the opening. Do not overfill (C).



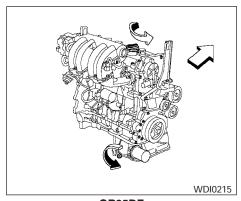
Type B

6. Recheck oil level with the dipstick.

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

A CAUTION

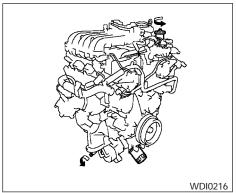
Oil level should be checked regularly. Operating the engine with an insufficient amount of oil can damage the engine, and such damage is not covered by warranty.



QR25DE CHANGING ENGINE OIL

the parking brake.

- 1. Park the vehicle on a level surface and apply
- 2. Start the engine and let it idle until it reaches operating temperature, then turn it off.
- 3. Remove the oil filler cap by turning it counterclockwise.
- 4. Place a large drain pan under the drain plug.



VQ35DE

5. Remove the drain plug with a wrench by turning it counterclockwise and completely drain the oil.

If the oil filter is to be changed, remove and replace it at this time. See "Changing engine oil filter" later in this section.

AWARNING

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.

A CAUTION

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

- Waste oil must be disposed of properly.
- Check your local regulations.
- 6. Clean and reinstall the drain plug and a new washer. Securely tighten the drain plug with a wrench. Do not use excessive force.

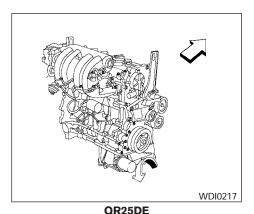
Drain plug tightening torque: 22 - 29 ft-lb (29 - 39 N·m)

7. Refill engine with recommended oil through the oil filler opening, then install the oil filler cap securely.

and recommended "Capacities fuel/lubricants" in the "Technical and consumer information" section of this manual for drain and refill capacity.

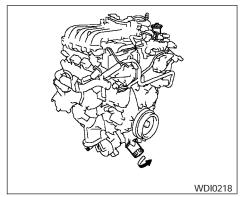
The drain and refill capacity depends on the oil temperature and drain time. Use these specifications for reference only. Always use the dipstick to determine when the proper amount of oil is in the engine.

- 8. Start the engine. Check for leakage around the drain plug and oil filter. Correct as required.
- 9. Turn the engine off and wait more than 10 minutes. Check the oil level with the dipstick. Add engine oil if necessary.



CHANGING ENGINE OIL FILTER

- Park the vehicle on a level surface and apply the parking brake.
- 2. Turn the engine off.
- 3. Place a large drain pan under the oil filter.
- 4. Loosen the oil filter with an oil filter wrench by turning it counterclockwise. Then remove the oil filter by turning it by hand.



VQ35DE

A CAUTION

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

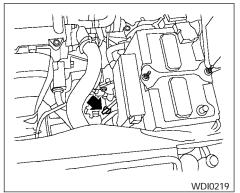
- Wipe the engine oil filter mounting surface with a clean rag.
 - Be sure to remove any old gasket material remaining on the mounting surface of the engine.
- 6. Coat the gasket on the new filter with clean engine oil.

- 7. Screw on the oil filter until a slight resistance is felt, then tighten an additional 2/3 turn.
- 8. Start the engine and check for leakage around the oil filter. Correct as required.
- Turn the engine off and wait more than 10 minutes. Check the oil level. Add engine oil if necessary.

AUTOMATIC TRANSMISSION FLUID

AWARNING

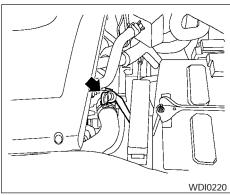
- When the engine is running, keep hands, jewelry and clothing away from any moving parts such as the cooling fan and drive belts.
- Automatic transmission fluid is poisonous and should be stored carefully in marked containers out of the reach of children.



QR25DE

TEMPERATURE CONDITIONS FOR **CHECKING**

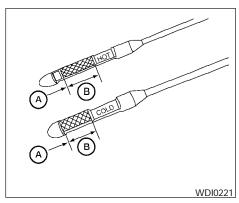
- The fluid level should be checked using the HOT range on the dipstick after the following conditions have been met:
 - The engine should be warmed up to operating temperature.
 - The vehicle should be driven at least 5 minutes.
 - The automatic transmission fluid should be warmed to 122 - 176°F (50 - 80°C).



VQ35DE

- The fluid can be checked at fluid temperatures of 86 - 122°F (30 - 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 shift selector lever through each gear range, ending in P (Park).
- 3. Check the fluid level with the engine idling.

POWER STEERING FLUID



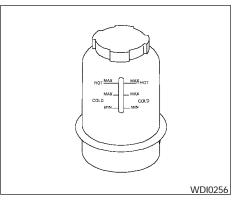
- 4. Remove the dipstick and wipe it clean with lint-free paper.
- Reinsert the dipstick into the dipstick tube as far as it will go.
- 6. Remove the dipstick and note the reading. If the automatic transmission fluid level is within the normal operating range (B), no additional fluid is required. If the fluid level is low (A) add fluid through the dipstick tube.

A CAUTION

DO NOT OVERFILL. Use ONLY Genuine Nissan Matic D ATF (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid. Dexron™ III/Mercon™ or equivalent may also be used. Outside the continental United States and Alaska contact a NISSAN dealership for more information regarding suitable fluids, including recommended brand(s) of Dexron™ III/Mercon™ automatic transmission fluid.

NOTE:

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



The fluid level should be checked using the HOT MAX range on the power steering fluid reservoir at fluid temperatures of 122° - 176°F (50° - 80°C) or using the COLD MAX range on the power steering fluid reservoir at fluid temperatures of 32° - 86°F (0° - 30°C).

If the fluid is below the MIN line, add Genuine NISSAN PSF fluid. Remove the cap and fill through the opening.

A CAUTION

- DO NOT OVERFILL.
- Recommended fluid is Genuine NISSAN PSF or equivalent.

BRAKE AND CLUTCH FLUID

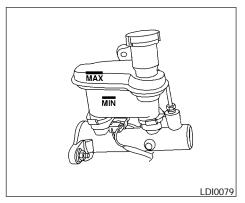
For further brake and clutch fluid specification information, refer to "Capacities and recommended fuel/lubricants" in the "Technical and consumer information" section of this manual.

AWARNING

Use only new fluid from a sealed container. 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.

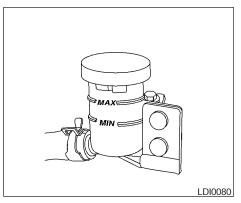
A CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



BRAKE FLUID

Check the brake fluid level in the reservoir. If the fluid level is below the MIN line or the brake warning light comes on, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 fluid up to the MAX line. If fluid must be added frequently, the system should be checked by a NISSAN dealer.



CLUTCH FLUID

Check the clutch fluid level in the reservoir (manual transmissions only). If the fluid level is below the MIN line, add Genuine NISSAN Super Heavy Duty Brake Fluid or equivalent DOT 3 fluid up to the MAX line. If fluid must be added frequently, the system should be checked by a NISSAN dealer.

For further brake and clutch fluid specification information, refer to "Capacities and recommended fuel/lubricants" in the "Technical and consumer information" section of this manual.

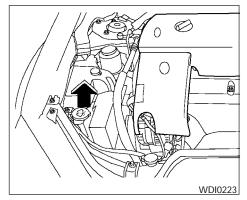
WINDOW WASHER FLUID

AWARNING

Use only new fluid from a sealed container. 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.

A CAUTION

Do not spill the fluid on any painted surfaces. This will damage the paint. If fluid is spilled, immediately wash the surface with water.



WINDOW WASHER FLUID RESERVOIR

Fill the window washer fluid reservoir periodically. Add window washer fluid when the light comes on (if so equipped).

To fill the window washer fluid reservoir, lift the cap off the reservoir tank and pour the window washer fluid into the tank opening.

Add a washer solvent to the washer for better cleaning. In the winter season, add a windshield washer antifreeze. Follow the manufacturer's instructions for the mixture ratio.

Refill the reservoir more frequently when driving conditions require an increased amount of window washer fluid.

Recommended fluid is Genuine NISSAN Windshield Washer Concentrate Cleaner & Antifreeze or equivalent.

A CAUTION

- Do not substitute engine anti-freeze coolant for window washer solution. This may result in damage to the paint.
- Do not fill the window washer reservoir tank with washer fluid concentrates at full strength. Some methyl alcohol based washer fluid concentrates may permanently stain the grille if spilled while filling the window washer reservoir tank.
- Pre-mix washer fluid concentrates with water to the manufacturer's recommended levels before pouring the fluid into the window washer reservoir tank. Do not use the window washer reservoir tank to mix the washer fluid concentrate and water.

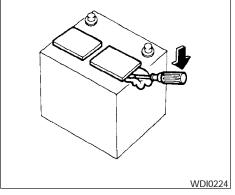
BATTERY

- 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.

AWARNING

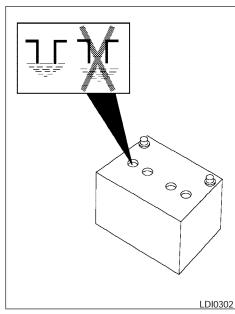
- Do not expose the battery to flames or electrical sparks. Hydrogen gas generated by the battery is explosive. Do not allow battery fluid to contact your skin, eves, fabrics or painted surfaces, After touching a battery or battery cap, do not touch or rub your eyes. Thoroughly wash your hands. If the acid contacts your eyes, skin or clothing, immediately flush with water for at least 15 minutes and seek medical attention.
- Do not operate the vehicle if the fluid in the battery is low. Low battery fluid can cause a higher load on the battery which can generate heat, reduce battery life, and in some cases lead to an explosion.

- When working on or near a battery, always wear suitable eve protection and remove all iewelry.
- Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.
- Keep battery out of the reach of children.



1. Remove the battery caps with a screwdriver as shown. Use a cloth to protect the battery case.

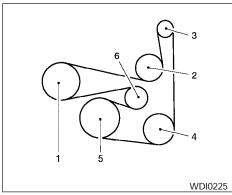
DRIVE BELTS



Check the fluid level in each cell If it is necessary to add fluid, add only distilled water to bring the level up to the bottom of the filler opening. Do not overfill. Vehicles operated in high temperatures or under severe conditions require frequent checks of the battery fluid level.

JUMP STARTING

If jump starting is necessary, see "Jump starting" in the "In case of emergency" section of this manual. If the engine does not start by jump starting, the battery may have to be replaced. Contact a NISSAN dealer.



QR25DE engine

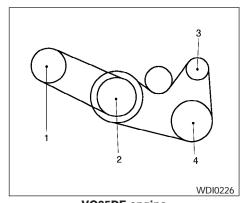
- 1. Power steering fluid pump
- 2. Water pump
- Generator
- 4. Air conditioner (if so equipped)
- 5. Crank pulley
- Auto tensioner

WARNING

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

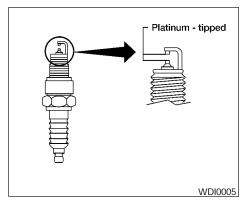
SPARK PLUGS

- 1. Visually inspect each belt for signs of unusual wear, cuts, fraying or looseness. If the belt is in poor condition or is loose, have it replaced or adjusted by a NISSAN dealer.
- 2. Have the belts checked regularly for condition and tension in accordance with the maintenance schedule found in the "NISSAN Service and Maintenance Guide".



VQ35DE engine

- Power steering fluid pump
- Crank pulley
- Generator
- Air conditioner



REPLACING SPARK PLUGS

Platinum-tipped spark plugs

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

• Always replace spark plugs with recommended or equivalent ones.

AIR CLEANER

AWARNING

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

A CAUTION

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

QR25DE

- 1. Disconnect the negative battery cable.
- 2. Remove the engine cover.
- 3. Remove the coil pack bolt.
- 4. Remove the coil pack/spark plug boot from the spark plug.
- Remove the spark plugs with a spark plug socket.

The plug socket has a rubber seal that holds the spark plug so it does not fall when it is pulled out. Make sure each spark plug is snugly fitted into the spark plug socket. 6. Fit the new plugs, one at a time, into the spark plug socket and install them. Use only the specified spark plugs. Turn each plug several full turns by hand, then tighten with the spark plug socket to the correct torque. Do not overtighten.

Spark plug tightening torque:

14 - 22 ft-lb (20 - 29 N·m)

- Install the coil pack/spark plug boot on the spark plug by pushing it on until you feel a snap.
- 8. Install the coil pack bolt.

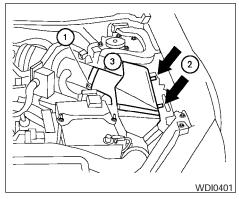
Coil pack tightening torque:

48 - 65 in-lb (5.4 - 7.3 N·m)

- 9. Install the engine cover.
- 10. Connect the negative battery cable.

VQ35DE

If replacement is required, please see your NISSAN dealer for assistance.



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

To remove the air cleaner filter:

- 1 Loosen the screw clamp.
- Push down on the clips.
- 3 Disconnect the electrical connector.
- 4. Remove the air cleaner housing.

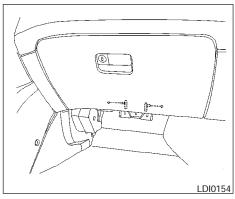
AWARNING

- Operating the engine with the air cleaner removed can cause you or others to be burned. The air cleaner not only cleans the air, it stops the flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Do not drive with the air cleaner removed, and be careful when working on the engine with the air cleaner removed.
- Never pour fuel into the throttle body or attempt to start the engine with the air cleaner removed. Doing so could result in serious injury.

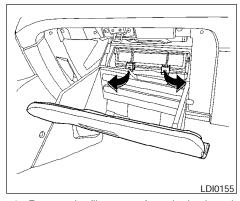
IN-CABIN MICROFILTER (if so equipped)

The in-cabin microfilter restricts the entry of airborne dust and pollen particles and reduces some objectionable outside odors. The filter is located behind the glove box. Refer to the "NISSAN Service and Maintenance Guide" for change intervals.

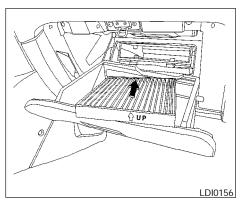
To replace the filter, perform the following procedure:



1. Remove the 2 lower glove box hinge pins. Remove the glove box from the opening and let it hang by the cord.



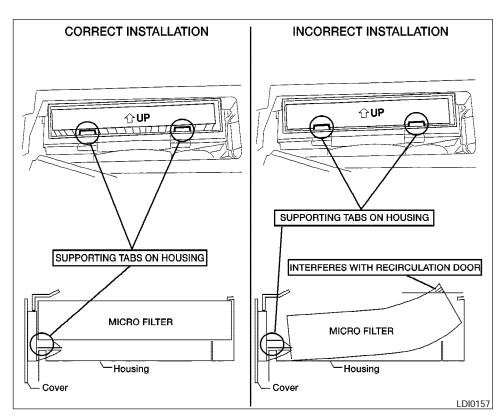
2. Remove the filter cover from the intake unit by disengaging the 2 hook tabs at the bottom of the cover.



NOTE:

The filter is marked "UP" with an arrow. The end of the filter with the arrow should face the rear of the vehicle.

3. Slide the filter into the housing.

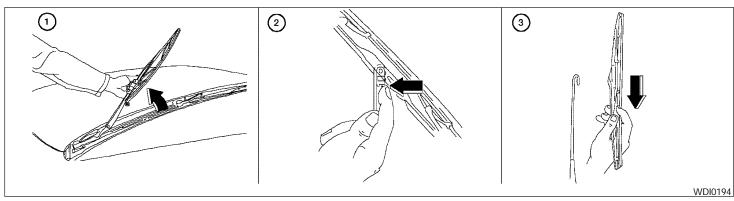


NOTE:

Make sure the filter sits on top of the 2 supporting tabs on the housing.

- 4. Replace the cover by inserting the upper tabs inside the housing slot and pushing the hook tabs until they snap on to the housing lip.
- 5. Install the glove box door.
- 6. Fill out the date information on the small replacement label and attach it to the glove box lid.

WINDSHIELD WIPER BLADES



CLEANING

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

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

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

8-24 Maintenance and do-it-yourself

A CAUTION

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

REPLACING

Replace the wiper blades if they are worn.

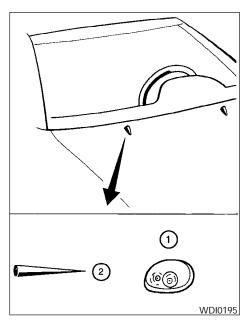
- 1 Lift the wiper arm away from the windshield.
- 2 Push the release tab, then move the wiper blade down the wiper arm to remove.
- (3) Remove the wiper blade.

4. Insert the new wiper blade onto the wiper arm until it clicks into place.

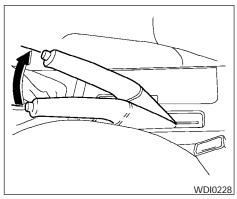
ACAUTION

- After wiper blade replacement, return the wiper arm to its original position; otherwise it may be damaged when the hood is opened.
- Make sure the wiper blades contact the glass; otherwise the arms may be damaged from wind pressure.

PARKING BRAKE AND BRAKE PEDAL



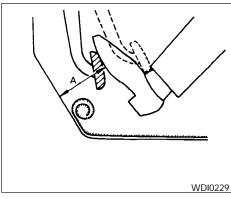
If you wax the surface of the hood, be careful not to let wax get into the washer nozzle 1. This may cause clogging or improper windshield washer operation. If wax gets into the nozzle, remove it with a needle or small pin (2).



CHECKING 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, see a NISSAN dealer.

• 7 - 8 clicks under pulling force of 44 lb (196 N).



CHECKING BRAKE PEDAL

With the engine running, check the distance A between the upper surface of the pedal and the metal floor. If it is out of the range shown, see a NISSAN dealer.

Distance A: Under depression force of 110 lb (490 N)

Automatic Transmission	Manual Transmission
3 1/2 in (90 mm)	3 1/3 in (84 mm)
or more	or more

FUSES

Self-adjusting brakes

Your vehicle is equipped with self-adjusting brakes.

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

AWARNING

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

Brake pad wear indicators

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

Under some driving or climate conditions, occasional brake squeak, squeal or other noise may be heard. Occasional brake noise during light to moderate stops is normal and does not affect the function or performance of the brake system.

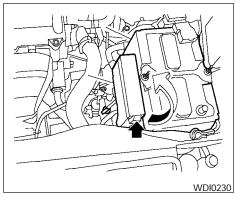
Proper brake inspection intervals should be followed. For more information regarding brake inspections, see the appropriate maintenance schedule information in the "NISSAN Service and Maintenance Guide".

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. Keep the pedal depressed for about 30 seconds. The pedal height should not change.
- 4. Run the engine for one minute without depressing the brake pedal, then turn it off. Depress the brake pedal several times. The pedal travel distance will decrease gradually with each depression as the vacuum is released from the booster.

If the brakes do not operate properly, have the brakes checked by a NISSAN dealer.



ENGINE COMPARTMENT

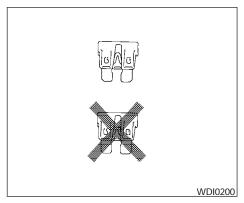
A CAUTION

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

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

- 1. Be sure the ignition switch and the headlight switch are OFF.
- 2. Open the engine hood.

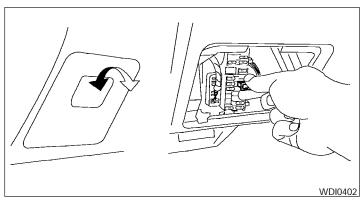
- 3. Remove the fuse box cover by pushing the tab and lifting the cover up.
- 4. Remove the fuse with the fuse puller. The fuse puller is located in the center of the fuse block in the passenger compartment.



- 5. If the fuse is open, replace it with a new fuse.
- 6. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN 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 with only genuine NISSAN parts.



PASSENGER COMPARTMENT

A CAUTION

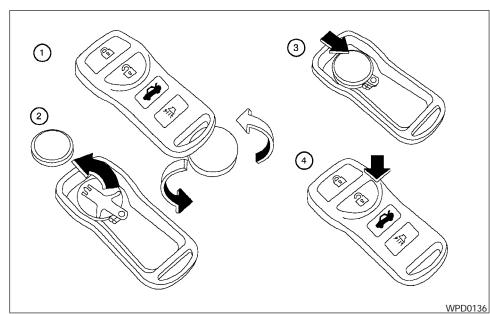
Never use a fuse of a higher or lower amperage rating than specified on the fuse box cover. This could damage the electrical system or cause a fire.

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

- 1. Be sure the ignition switch and the headlight switch are OFF.
- 2. Pull the fuse box cover to remove.
- 3. Remove the fuse with the fuse puller.
- 8-28 Maintenance and do-it-yourself

- 4. If the fuse is open, replace it with a known good fuse.
- 5. Push the fuse box cover to install.
- 6. If a new fuse also opens, have the electrical system checked and repaired by a NISSAN dealer.

KEYFOB BATTERY REPLACEMENT



Replace the battery in the keyfob as follows:

- Open the lid using a coin.
- 2 Remove the battery.

(3) Install a new battery with the "+" facing down.

Recommended battery: Sanyo CR2025 or equivalent.

4 Close the lid securely.

Press the LOCK button, then the UNLOCK button two or three times to check the keyfob operation.

If the battery is removed for any reason other than replacement, perform step 5.

- An improperly disposed battery can hurt the environment. Always confirm local regulations for battery disposal.
- The keyfob is water-resistant; however, if it does get wet, immediately wipe completely dry.
- The operational range of the keyfob extends to approximately 33 ft (10 m) from the vehicle. This range may vary with conditions.

FCC Notice:

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

This device complies with Part 15 of the FCC Rules and RSS-210 of Industry Canada.

Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Maintenance and do-it-yourself 8-29

LIGHTS

HEADLIGHTS Replacing the xenon headlight bulb

AWARNING

A HIGH VOLTAGE

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

Replacing the halogen headlight bulb

The headlight is a semi-sealed beam type which uses a replaceable headlight (halogen) bulb. Because the headlight assembly must be removed from the vehicle for bulb replacement, see your NISSAN dealer.

A CAUTION

Aiming is not necessary after replacing the bulb. When aiming adjustment is necessary, contact a NISSAN dealer.

- Do not leave the headlight assembly open without a bulb installed for a long period of time. Dust. moisture. smoke. etc. entering the headlight body may affect bulb performance. Remove the bulb from the headlight assembly just before a replacement bulb is installed.
- Only touch the plastic base when handling the bulb. Never touch the glass envelope. Touching the glass could significantly affect bulb life and/or headlight performance.
- 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.
- Use the same number and wattage as originally installed:

Low beam:

Wattage: 55 Bulb no.: H1*

High beam:

Wattage: 60

Bulb no.: HB3 (9005)*

*: Always check with the Parts Department at a NISSAN dealer for the latest parts information.

FRONT PARK/TURN/SIDEMARKER LIGHT

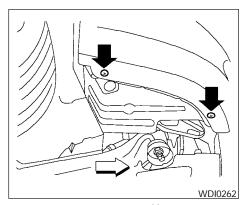
Bulb replacement requires the removal of the headlight assembly. If replacement is required, see your NISSAN dealer.

FOG LIGHTS (if so equipped)

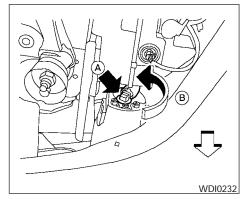
Replacing the fog light bulb

A 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.
- When handling the bulb, do not touch the glass envelope.



- 1. Disconnect the negative (-) battery cable.
- 2. Remove the two splash shield screws (see illustration).
- 3. Position the splash shield aside to allow access to the fog light bulb.



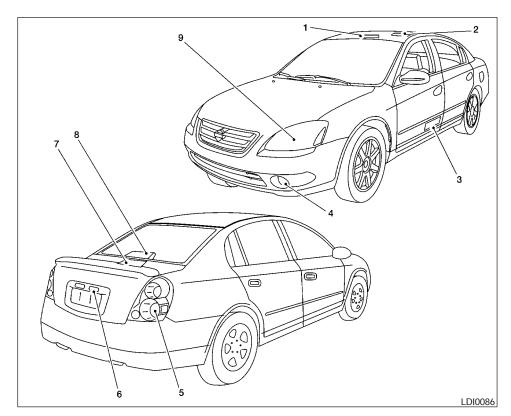
- Disconnect the fog light electrical connector A.
- Rotate the fog light bulb counterclockwise and pull it out of the fog light assembly (B).
- Follow the instructions in reverse order to install a new bulb.

EXTERIOR AND INTERIOR LIGHTS

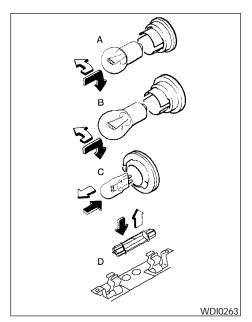
Item	Wattage (W)	Bulb No.*
Headlight assembly		
Low (Halogen)	55	H1
Low (Xenon)	(special)	D2R

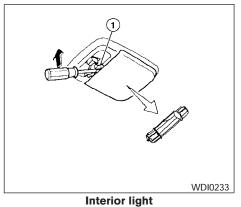
Item	Wattage (W)	Bulb No.*
High	60	HB3 (9005)
Park/Turn	27/8	1157
Front fog light	55	HB4 (9006)
Step light	_	158
Rear combination light		
Tail/Stop	8/27	3157
Turn	27	3156
Backup (reversing)	13	912
Sidemarker	5	168
License plate light	5	168
High-mounted stop light		
Inside	18	921
Spoiler (if so equipped)	See a NISSAN dealer for assistance	
Interior light	8	68
Map light	10	578
Trunk light	3.4	158
Glove box light (if so equipped)	3.4	658

^{*:} Always check with the Parts Department at a NISSAN dealer for the latest parts information.

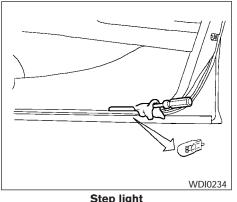


- 1. Map light
- 2. Interior light
- 3. Step light
- 4. Fog light (if so equipped)
- 5. Rear combination light
- 6. License plate light
- 7. Trunk light
- 8. High-mount stoplight
- 9. Headlamp assembly





Use a cloth 1 to protect the interior light housing.



Step light

Replacement procedures

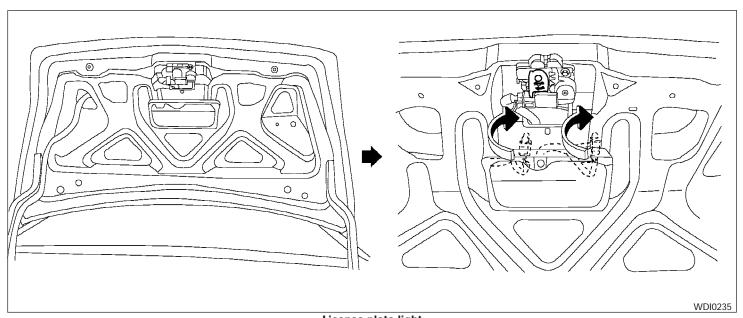
All other lights are either type A, B, C or D. When replacing a bulb, first remove the lens, lamp and/or cover.



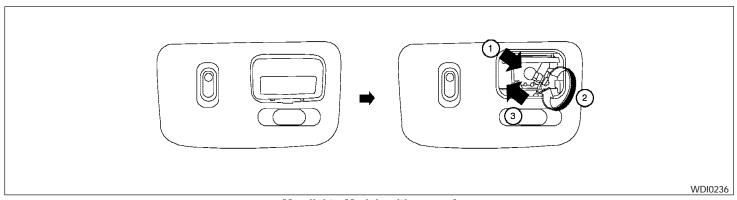
Indicates bulb removal



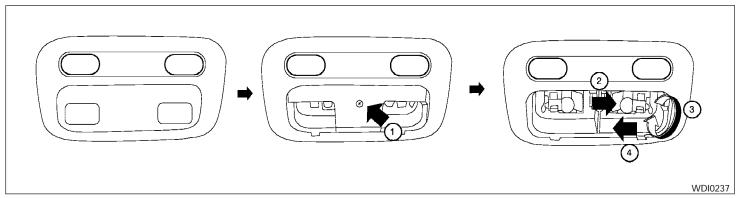
Indicates bulb installation



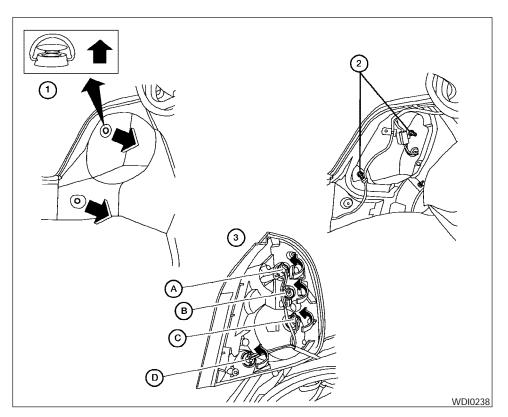
License plate light



Map light - Models with sunroof



Map light - Models without sunroof

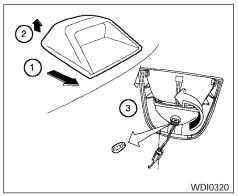


Rear combination light

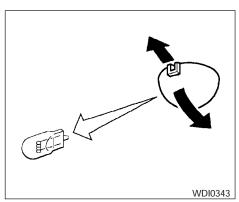
To access the bulbs in the rear combination light:

- 1 Remove the 2 fasteners. Carefully push back the carpet.
- (2) Remove the 2 nuts and pull out the rear combination light cover.
- 3 Rotate the bulb(s) counterclockwise and pull out to remove:
 - Turn signal light
 - Sidemarker light
 - Tail/stop light
 - Backup light

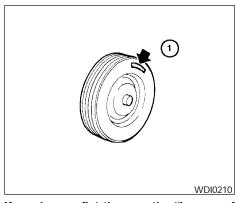
WHEELS AND TIRES



High-mounted stop light (Rear window)



Trunk light



If you have a flat tire, see the "In case of emergency" section of this manual.

TIRE PRESSURE

Maximum inflation pressure

Do not exceed the maximum inflation pressures shown on the sidewall of the tire (1).

Tire inflation pressure

Check the tire pressure (including the spare) at least once a month and always prior to long distance trips. Incorrect tire pressure may adversely affect tire life and vehicle handling. Tire pressure should be checked when 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) at moderate speeds. COLD tire pressures are shown on the tire placard affixed to the center console lid.

AWARNING

- Improperly inflated tires can fail suddenly and cause an accident.
- The vehicle weight capacity is indicated on the F.M.V.S.S. certification label. Do not load your vehicle beyond this capacity. Overloading your vehicle may result in reduced tire life, unsafe operating conditions due to premature tire failure, or unfavorable handling characteristics and could also lead to a serious accident. Loading beyond the specified capacity may also result in failure of other vehicle components.
- Before taking a long trip, or whenever vou heavily load your vehicle, use a tire pressure gauge to ensure that the tire pressures are at the specified level.

- Do not drive your vehicle over 85 MPH (137 km/h) unless it is equipped with high speed rated tires. Driving faster than 85 MPH (137 km/h) may result in tire failure, loss of control and possible injury.
- For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

TYPES OF TIRES

AWARNING

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

• For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

All season tires

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

Summer tires

NISSAN specifies summer tires on some models to provide superior performance on dry roads. Summer tire performance is substantially reduced in snow and ice. Summer tires do not have the tire traction rating "M&S" on the tire sidewall.

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

Snow tires

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

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

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

For additional traction on icy roads, studded tires may be used. However, some U.S. states and Canadian provinces prohibit their use. Check local, state and provincial laws before installing studded tires. Skid and traction capabilities of studded snow tires on wet or dry surfaces may be poorer than that of non-studded snow tires.

TIRE CHAINS

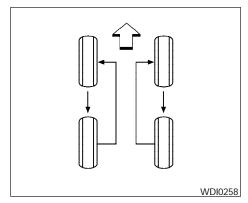
Use of tire chains may be prohibited according to location. Check the local laws before installing tire chains. When installing tire chains, make sure they are the proper size for the tires on your vehicle and are installed according to the chain manufacturer's suggestions. **Use only SAE**

class "S" chains. Class "S" chains are used on vehicles with restricted tire to vehicle clearance. Vehicles that can use Class "S" chains are designed to meet the minimum clearances between the tire and the closest vehicle suspension or body component required to accommodate the use of a winter traction device (tire chains or cables). The minimum clearances are determined using the factory equipped tires. Other types may damage your vehicle. Use chain tensioners when recommended by the tire chain manufacturer to ensure a tight fit. Loose end links of the tire chain must be secured or removed to prevent the possibility of whipping action damage to the fenders or underbody. If possible, avoid fully loading your vehicle when using tire chains. In addition, drive at a reduced speed. Otherwise, your vehicle may be damaged and/or vehicle handling and performance may be adversely affected.

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

Never install tire chains on a TEMPORARY USE ONLY spare tire.

Do not use tire chains on dry roads. Driving with chains in such conditions can cause damage to the various mechanisms of the vehicle due to some overstress.



CHANGING WHEELS AND TIRES

Tire rotation

NISSAN recommends rotating the tires every 7,500 miles (12,000 km).

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

As soon as possible, tighten the wheel nuts to the specified torque with a torque wrench.

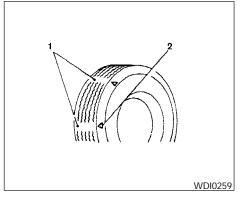
Wheel nut tightening torque: 80 ft-lb (108 N·m)

8-40 Maintenance and do-it-yourself

The wheel nuts must be kept tightened to specifications at all times. It is recommended that wheel nuts be tightened to specification at each tire rotation interval.

AWARNING

- After rotating the tires, check and adjust the tire pressure.
- Retighten the wheel nuts when the vehicle has been driven for 600 miles (1,000 km) (also in cases of a flat tire, etc.).
- Do not include the spare tire in the tire rotation.
- For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.



- Wear indicator
- Location mark

Tire wear and damage

WARNING

Tires should be periodically inspected for wear, cracking, bulging or objects caught in the tread. If excessive wear, cracks, bulging or deep cuts are found, the tire(s) should be replaced.

- The original tires have built-in tread wear indicators. When the wear indicators are visible, the tire(s) should be replaced.
- Improper service of the spare tire may result in serious personal injury. If it is necessary to repair the spare tire, contact a NISSAN dealer.
- For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

Replacing wheels and tires

When replacing a tire, use the same size, tread design, 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" section of this manual.

AWARNING

- 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-totire clearance, tire chain clearance, speedometer calibration, headlight aim and bumper height. Some of these effects may lead to accidents and could result in serious personal injury.
- If the wheels are changed for any reason, always replace with wheels which have the same off-set dimension. Wheels of a different off-set could cause premature tire wear, degrade vehicle handling characteristics and/or with the interference brake discs/drums. Such interference can lead to decreased braking efficiency and/or early brake pad/shoe wear. Refer to "Wheels and tires" in the "Technical and consumer information" section of this manual for wheel off-set dimensions.

- Do not install a deformed wheel or tire even if it has been repaired. Such wheels or tires could have structural damage and could fail without warning.
- The use of retread tires is not recommended.
- For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

Wheel balance

Unbalanced wheels may affect vehicle handling and tire life. Even with regular use, wheels can get out of balance. Therefore, they should be balanced as required.

Wheel balance service should be performed with the wheels off the vehicle. Spin balancing the wheels on the vehicle could lead to mechanical damage.

 For additional information regarding tires, refer to "Important Tire Safety Information" (US) or "Tire Safety Information" (Canada) in the Warranty Information Booklet.

Care of wheels

- Wash the wheels when washing the vehicle to maintain their appearance.
- Clean the inner side of the wheels when the wheel is changed or the underside of the vehicle is washed.
- Do not use abrasive cleaners when washing the wheels.
- Inspect wheel rims regularly for dents or corrosion. Such damage may cause loss of pressure or poor seal at the tire bead.
- NISSAN recommends waxing the road wheels to protect against road salt in areas where it is used during winter.

Spare tire (TEMPORARY USE ONLY spare tire)

Observe the following precautions if the TEM-PORARY USE ONLY spare tire must be used. Otherwise, your vehicle could be damaged or involved in an accident:

AWARNING

- The spare tire should be used for emergency use only. It should be replaced with the standard tire at the first opportunity to avoid possible tire or differential damage.
- Drive carefully while the TEMPORARY USE ONLY spare tire is installed. Avoid sharp turns and abrupt braking while driving.
- Periodically check spare tire inflation pressure. Always keep the pressure of the TEMPORARY USE ONLY spare tire at 60 psi (420 kPa, 4.2 bar).
- With the TEMPORARY USE ONLY spare tire installed do not drive the vehicle at speeds faster than 50 MPH (80 km/h).
- When driving on roads covered with snow or ice, the TEMPORARY USE ONLY spare tire should be used on the rear wheels and the original tire used on the front wheels (drive wheels). Use tire chains only on the front (original) tires.

- Tire tread of the TEMPORARY USE ONLY spare tire will wear at a faster rate than the standard tire. Replace the spare tire as soon as the tread wear indicators appear.
- Do not use the spare tire on other vehicles.
- Do not use more than one spare tire at the same time.
- Do not tow a trailer when the TEMPO-RARY USE ONLY spare tire is installed.

ACAUTION

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

MEMO

9 Technical and consumer information

Capacities and recommended fuel/lubricants 9-2
Fuel recommendation
Engine oil and oil filter recommendation 9-5
Recommended SAE viscosity number9-6
Air conditioner system refrigerant and
lubricant recommendations 9-6
Specifications9-7
Engine
Wheels and tires 9-8
Dimensions and weights9-8
When traveling or registering your vehicle in
another country9-9
Vehicle identification
Vehicle identification number (VIN) plate9-9
Vehicle identification number
(chassis number)9-9
Engine serial number9-10
F.M.V.S.S. certification label9-10
Emission control information label

Tire placard
Air conditioner specification label9-1
Installing front license plate9-13
Vehicle loading information9-12
Terms
Determining vehicle load capacity9-13
Loading tips9-13
Towing a trailer9-14
Maximum load limits9-14
Towing load/specification chart9-15
Towing safety9-15
Flat towing9-17
Uniform tire quality grading9-18
Emission control system warranty9-19
Reporting safety defects (US only)9-19
Readiness for inspection/maintenance (I/M) test 9-19
Owner's Manual/Service Manual order information9-2
In the event of a collision Q-00

CAPACITIES AND RECOMMENDED FUEL/LUBRICANTS

The following are approximate capacities. The actual refill capacities may be a little different. When refilling, follow the procedure described in the "Maintenance and do-it-yourself" section to determine the proper refill capacity.

			Capacity (Approximate)			D 1.151:1 11.1:	
			US measure	Imp measure	Liter	Recommended Fluids and Lubricants	
Fuel			20 gal	16-5/8 gal	75.8	Unleaded gasoline with an octane rating of at least 87 AKI (RON 91)*1	
Engine oil *7							
Drain	and Refill						
	With oil filter change	QR25DE	4-1/2 qt	3-3/4 qt	4.2	_	
	vvitri oli liiter change	VQ35DE	4-1/4 qt	3-1/2 qt	4.0	API Certification Mark *2 *3	
		QR25DE	4-1/4 qt	3-1/2 qt	4.0	API grade SL, Energy Conserving *2 *3 ILSAC grade GF-III*2 *3	
	Without oil filter change	VQ35DE	3-7/8 qt	3-1/4 qt	3.7	_ 125/10 grade dr. iii 2 0	
Cooling system				-			
0 ,	With reservoir						
		QR25DE	8 qt	6-3/4 qt	7.6	50% Genuine NISSAN Anti-freeze Long Life Coolant or equivalent	
		VQ35DE	8-5/8 qt	7-1/4 qt	8.2	50% Demineralized or distilled water	
Manual transmiss	sion gear oil		4-7/8 pt	4 pt	2.3	Genuine NISSAN Manual Transmission Fluid HQ Multi 75W-85 or equivalent	
Automatic transmission fluid		Pofill to the pro	Refill to the proper level according to the instructions		Genuine Nissan Matic D ATF (Continental U.S. and Alaska) or Canada NISSAN Automatic Transmission Fluid.*4		
Power steering fluid (PSF) Brake and clutch fluid		in the "Maintenance and do-it-yourself" section.		rself" section.	Genuine NISSAN PSF or equivalent.*8		
					Genuine NISSAN Super Heavy Duty Brake Fluid*5 or equivalent DOT 3 (US FMVSS No. 116		
Multi-purpose gr	ease		_	_	_	NLGI No. 2 (Lithium Soap base)	
Air conditioning system refrigerant		_	_	_	HFC-134a (R-134a)*6		
Air conditioning s	system lubricants		_	_	_	NISSAN A/C System Lubricant Type DH-PS or equivalent*6	
Winshield washe	r fluid		_	_	_	Genuine NISSAN Windshield Washer Concentrate Cleaner & Anti-freeze or equivalent	
		"				·	

^{*1:} For further details, see "Fuel recommendation."

9-2 Technical and consumer information

^{*2:} For further details, see "Engine oil and oil filter recommendations."

^{*3:} For further details, see "Recommended SAE engine oil viscosity."

^{*4:} Dexron™ III/Mercon™ or equivalent may also be used. Outside the Continental United States and Alaska contact a NISSAN dealership for more information regarding suitable fluids, including recommended brand(s) of Dexron™ III/Mercon™ Automatic Transmission Fluid.

^{*5:} Available in mainland USA through your NISSAN dealer.

^{*6:} For further details, see "Air conditioner specification label."

^{*7:} For further details, see "Changing engine oil."

^{*8:} For Canada, NISSAN Automatic Transmission Fluid (ATF), Dexron™ III/Mercon™, or equivalent ATF may also be used.

FUEL RECOMMENDATION

For 2.5L engine

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

For 3.51

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

For improved vehicle performance, NISSAN recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI number (Research octane number 96).

CAUTION

- Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.
- Under no circumstances should a leaded gasoline be used, because 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. NISSAN 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. NISSAN does not recommend the use of fuels of which the oxygenate content and the fuel compatibility for your NISSAN 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 other than 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 NISSAN vehicles.

If any driveability problems such as engine stalling and difficult hot-starting are experienced after using oxygenate-blend fuels, immediately change to a non-oxygenate fuel or a fuel with a low blend of MTRF

Take care not to spill gasoline during refueling. Gasoline containing oxygenates can cause paint damage.

Aftermarket fuel additives

NISSAN does not recommend the use of any aftermarket fuel additives (for example, fuel injector cleaner, octane booster, intake valve deposit removers, etc.) which are sold commercially. Many of these additives intended for gum, varnish or deposit removal may contain active solvents or similar ingredients that can be harmful to the fuel system and engine.

Octane rating tips

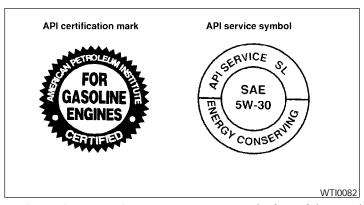
In most parts of North America, you should use unleaded gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number. However, you may use unleaded gasoline with an octane rating as low as 85 AKI (Anti-Knock Index) number in high altitude areas [over 4,000 ft (1,219 m)] such as: Colorado, Montana, New Mexico, Utah, Wyoming, northeastern Nevada, southern Idaho, western South Dakota, western Nebraska, and the 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 a NISSAN dealer correct the condition. Failure to correct the condition is misuse of the vehicle, for which NISSAN is not responsible.

Incorrect ignition timing may result in spark knock, after-run and/or overheating, which may cause excessive fuel consumption or engine damage. If any of the above symptoms are encountered, have your vehicle checked at a NISSAN dealer.

However, now and then you may notice light spark knock for a short time while accelerating or driving up hills. This is not a cause for concern, because you get the greatest fuel benefit when there is light spark knock for a short time under heavy engine load.

9-4 Technical and consumer information



ENGINE OIL AND OIL FILTER RECOMMENDATION

Selecting the correct oil

It is essential to choose engine oil with the correct quality and viscosity to ensure satisfactory engine life and performance. NISSAN recommends the use of a low friction oil (energy conserving oil) in order to improve fuel economy and conserve energy. Oils which do not have the specified quality label should not be used as they could cause engine damage.

Only those engine oils with the American Petroleum Institute (API) CERTIFICATION MARK on the front of the container should be used. This type of oil supersedes the existing API SG, SH, or SJ and Energy Conserving II categories.

If you cannot find engine oil with the API CERTIFICATION MARK, use API grade SL Energy Conserving oil. An oil with a single designation SL, or in combination with other categories (for example, SL/CF) may also be used if one with the API CERTIFICATION MARK cannot be found. An ILSAC grade GF-III oil can also be used.

NISSAN recommends mineral based oils. These oils must, however, meet the API quality and SAE viscosity ratings specified for your vehicle.

Oil additives

NISSAN does not recommend the use of oil additives. The use of an oil additive is not necessary when the proper oil type is used and maintenance intervals are followed.

Oil which may contain foreign matter or has been previously used should not be used.

Oil viscosity

The engine oil viscosity or thickness changes with temperature. Because of this, it is important to select the engine oil viscosity 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 NISSAN vehicle is equipped with a high-quality genuine NISSAN oil filter. When replacing, use a genuine NISSAN oil filter or its equivalent for the reason described in "Change intervals".

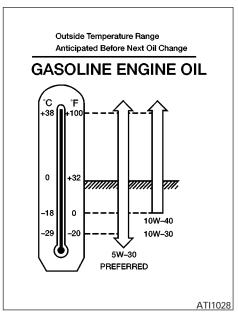
Change intervals

The oil and oil filter change intervals for your engine are based on the use of the specified quality oils and filters. Using engine oil and filters that are not of the specified quality, or exceeding recommended oil and filter change intervals could reduce engine life. Damage to the engine caused by improper maintenance or use of incorrect oil and filter quality and/or viscosity is not covered by the NISSAN new vehicle warranty.

Your engine was filled with a high-quality engine oil when it was built. You do not have to change the oil before the first recommended change interval. Oil and filter change intervals depend upon how you use your vehicle.

Operation under the following conditions may require more frequent oil and filter changes:

- repeated short distance driving at cold outside temperatures
- driving in dusty conditions
- extensive idling
- towing a trailer



RECOMMENDED SAE VISCOSITY NUMBER

 SAE 5W-30 viscosity oil is preferred for all temperatures. SAE 10W-30 or SAE 10W-40 viscosity oils may be used if the ambient temperature is above 0°F (-18°C).

AIR CONDITIONER SYSTEM REFRIGERANT AND LUBRICANT RECOMMENDATIONS

The air conditioner system in your NISSAN vehicle must be charged with the refrigerant HFC-134a (R-134a) and the lubricant, NISSAN A/C system oil DH-PS or the exact equivalents.

A CAUTION

The use of any other refrigerant or lubricant will cause severe damage to the air conditioning system and will require the replacement of all air conditioner system components.

The refrigerant HFC-134a (R-134a) in your NISSAN vehicle does not harm the earth's ozone layer. Although this refrigerant does not affect the earth's atmosphere, certain government regulations require the recovery and recycling of any refrigerant during automotive air conditioner system service. A NISSAN dealer has the trained technicians and equipment needed to recover and recycle your air conditioner system refrigerant.

Contact a NISSAN dealer when servicing your air conditioner system.

SPECIFICATIONS

ENGINE

Model	QR25DE	VQ35DE
Туре	Gasoline, 4-cycle, DOHC	Gasoline, 4-cycle, DOHC
Cylinder arrangement	4-cylinder in-line	6-cylinder, V-block, Slanted at 60°
Bore x Stroke in (mm)	3.5 x 3.9 (89.0 x 100.0)	3.760 x 3.205 (95.5 x 81.4)
Displacement cu in (cm ³)	151.82 (2,488)	213.45 (3,498)
Firing order	1-3-4-2	1-2-3-4-5-6
Idle speed		
M/T		
A/T (in "N" position)	See the "Emission Control label" on the und	erside of the hood.
Ignition timing (degree B.T.D.C. at idle speed)		
CO % at idle		
Standard	PLFR5A-11	PLFR5A-11
Spark plug	PLFR4A-11	PLFR4A-11
Colo	PLFR6A-11	PLFR6A-11
Spark plug gap (Nominal) in (mm)	0.043 (1.1)	0.043 (1.1)
Camshaft operation	Timing chain	Timing chain

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

WHEELS AND TIRES

Wheel type	Size	Offset in (mm)
Steel	16 x 6.5JJ	1.57 (40)
Aluminum	16 x 6.5JJ	1.57 (40)
Aluminum	17 x 7JJ	1.77 (45)
T type (Spare)	16 x 4T	1.57 (40)
Tire size	All 2.5 models	205/65R16
	All 3.5 models	215/55R17
	Spare tire	T135/70D16
	Spare tire	T135/90D16 ⁽¹⁾
Speed rating	2.5L	Т
	3.5L A/T	Н
	3.5L M/T	V

⁽¹⁾ if so equipped

DIMENSIONS AND WEIGHTS

Overall length	in (mm)	191.5(4,864)
Overall width	in (mm)	70.4(1,788)
Overall height	in (mm)	57.9(1,471)
Front tread	in (mm)	61.0(1,549)
Rear tread	in (mm)	61.2(1,554)
Wheelbase	in (mm)	110.2(2,799)
Gross vehicle weight rating	lb (kg)	See the "F.M.V.S.S. certification label" on the
Gross axle weight rating		center pillar between the
Front	lb (kg)	driver's side front and
Rear	lb (kg)	rear doors.

WHEN TRAVELING OR REGISTERING YOUR VEHICLE IN ANOTHER COUNTRY

When planning to drive your NISSAN vehicle in another country, you should first find out if the fuel available is suitable for your vehicle's engine.

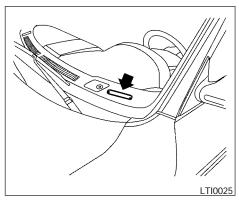
Using fuel with an octane rating that is too low may cause engine damage. All gasoline vehicles must be operated with unleaded gasoline. Therefore, avoid taking your vehicle to areas where appropriate fuel is not available.

When transferring the registration of your vehicle to another country, state, province or district, it may be necessary to modify the vehicle to meet local laws and regulations.

The laws and regulations for motor vehicle emission control and safety standards vary according to the country, state, province or district; therefore, vehicle specifications may differ.

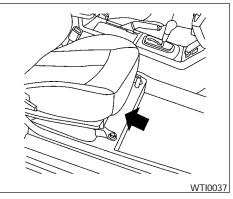
When any vehicle is to be taken into another country, state, province or district and registered, its modifications, transportation, and registration are the responsibility of the user. NISSAN is not responsible for any inconvenience that may result.

VEHICLE IDENTIFICATION



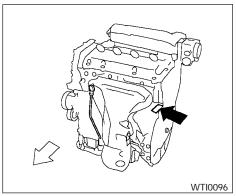
VEHICLE IDENTIFICATION NUMBER (VIN) PLATE

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



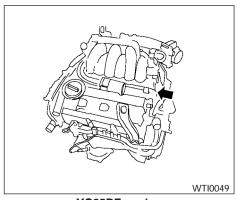
VEHICLE IDENTIFICATION NUMBER (chassis number)

The vehicle identification number is located as shown.

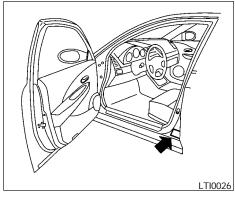


QR25DE engine **ENGINE SERIAL NUMBER**

The number is stamped on the engine as shown.

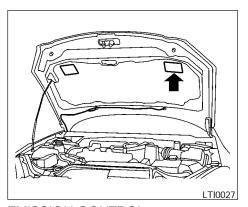


VQ35DE engine



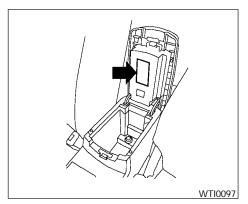
F.M.V.S.S. CERTIFICATION LABEL

The Federal Motor Vehicle Safety Standard (F.M-.V.S.S.) certification label is affixed as shown. This label contains valuable vehicle information, such as: Gross Vehicle Weight Ratings (GVWR), Gross Axle Weight Rating (GAWR), month and year of manufacture, Vehicle Identification Number (VIN), etc. Review it carefully.



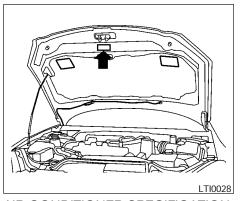
EMISSION CONTROL INFORMATION LABEL

The emission control information label is attached as shown.



TIRE PLACARD

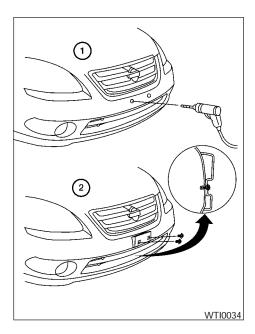
The cold tire pressure is shown on the tire placard. The tire placard is located under the center console lid.



AIR CONDITIONER SPECIFICATION LABEL

The air conditioner specification label is affixed as shown.

INSTALLING FRONT LICENSE PLATE



Use the following steps to mount the front license plate:

- Make a shallow hole in each plastic finisher at the location mark (small dimple) using a 0.31 in (8 mm) drill. To avoid damaging the threads behind the finisher, apply only light pressure to the drill.
- Mount the license plate bracket using two of the four 8 mm slotted hex head screws.
- 3. Use the remaining two 8 mm slotted hex head screws to mount the license plate to the license plate bracket.

VEHICLE LOADING INFORMATION

AWARNING

- It is extremely dangerous to ride in a cargo area inside a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed.
- Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.
- Be sure everyone in your vehicle is in a seat and using a seat belt properly.

TERMS

It is important to familiarize yourself with the following terms before loading your vehicle:

- Curb Weight (actual weight of your vehicle) - vehicle weight including: standard and optional equipment, fluids, emergency tools, and spare tire 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.

INSTALLING FRONT LICENSE PLATE

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.

I OADING TIPS

- The GVW must not exceed GVWR or GAWR as specified on the F.M.V.S.S. certification label.
- Do not load the front and rear axle to the GAWR. Doing so will exceed the GVWR.

WARNING

Properly secure all cargo with ropes or straps to help prevent it from sliding or shifting. Do not place cargo higher than the seatbacks. In a sudden stop or collision, unsecured cargo could cause personal injury.

- Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts of your vehicle can break, tire damage could occur, or it can change the way your vehicle handles. This could result in loss of control and cause personal injury.
- Overloading not only can shorten the life of your vehicle and the tire, but can also cause unsafe vehicle handling and longer braking distances. This may cause a premature tire failure which could result in a serious accident and personal injury. Failures caused by overloading are not covered by the vehicle's warranty.

TOWING A TRAILER

Your new vehicle was designed to be used primarily to carry passengers and cargo. Remember that towing a trailer places additional loads on your vehicle's engine, drive train, steering, braking and other systems.

A **Nissan Trailer Towing Guide (U.S. only)** is available from a NISSAN dealer. This guide includes information on trailer towing ability and the special equipment required for proper towing.

MAXIMUM LOAD LIMITS

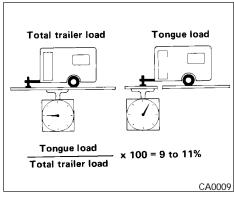
Maximum trailer loads

Never allow the total trailer load to exceed the value specified in the Towing Load/Specification Chart found later in this section. The total trailer load equals trailer weight plus its cargo weight. Towing loads greater than specified or using improper towing equipment could adversely affect vehicle handling, braking and performance.

The ability of your vehicle to tow a trailer is not only related to the maximum trailer loads, but also the places you plan to tow. Tow weights appropriate for level highway driving may have to be reduced on very steep grades or in low traction situations (for example, on slippery boat ramps).

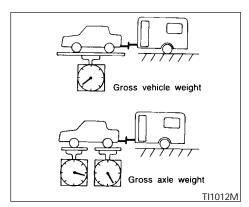
A CAUTION

Vehicle damage resulting from improper towing procedures are not covered by NISSAN warranties. A NISSAN Trailer Towing Guide (U.S. only) containing information on trailer towing ability and the special equipment required may be obtained from a NISSAN dealer.



Tongue load

Keep the tongue load between 9 - 11 percent of the total trailer load within the maximum tongue load limits shown in the following Towing Load/Specification Chart. If the tongue load becomes excessive, rearrange cargo to allow for proper tongue load.



Maximum gross vehicle weight/maximum gross axle weight

The gross vehicle weight of the towing vehicle must not exceed the gross vehicle weight rating (GVWR) shown on the F. M. V. S. S. certification label. The gross vehicle weight equals the combined weight of the unloaded vehicle, passengers, luggage, hitch, trailer tongue load and any other optional equipment. In addition, front or rear gross axle weight must not exceed the gross axle weight rating (GAWR) shown on the F. M. V. S. S. certification label.

TOWING LOAD/SPECIFICATION CHART

TOWING LOAD / SPECIFICATION CHART		
	UNIT: lb (kg)	
MAXIMUM TOWING LOAD	1,000 (454)	
MAXIMUM TONGUE LOAD	100 (45)	

TOWING SAFFTY

Trailer hitch

Choose a proper hitch for your vehicle and trailer. A genuine NISSAN trailer hitch is available from your NISSAN dealer. 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.

A CAUTION

- Do not use axle-mounted hitches.
- The hitch should not be attached to or affect the operation of the impactabsorbing bumper.

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

Tire pressures

- When towing a trailer, inflate the vehicle tires to the recommended cold tire pressure indicated on the tire placard.
- Trailer tire condition, size, load rating and proper inflation pressure should be in accordance with the trailer and tire manufacturer's specifications.

Safety chains

Always use suitable safety chains between your vehicle and the trailer. The safety chains should be crossed and should be attached to the hitch, not to the vehicle bumper or axle. Be sure to leave enough slack in the chains to permit turning corners.

Trailer lights

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.

Trailer brakes

If your trailer is equipped with a braking system, make sure it conforms to federal and/or local regulations and that it is properly installed.

AWARNING

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 shift while driving.
- Be certain your rearview 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 an automatic transmission, first block the

- wheels and apply the parking brake, and then move the transmission shift selector lever into the P (Park) position. If you move the shift selector lever to the P (Park) position before blocking the wheels and applying the parking brake, transmission damage could occur.
- When going down a hill, shift into a lower gear and use the engine braking effect. When going up a long grade, downshift the transmission to a lower gear and reduce speed to reduce chances of engine overloading and/or overheating. However, for long steep grades, do not stay in 1st or 2nd gear when driving above 35 MPH (56 km/h).
- If the engine coolant rises to an extremely high temperature when the air conditioner 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 your vehicle's first 500 miles (805 km).

9-16 Technical and consumer information

- Have your vehicle serviced more often than at intervals specified in the recommended Maintenance Schedule in the "NISSAN Service and Maintenance Guide".
- When making a turn, your trailer wheels will be closer to the inside of the turn than your vehicle wheels. To compensate for this, make a larger than normal turning radius during the turn.
- Crosswinds and rough roads will adversely affect vehicle/trailer handling, possibly causing vehicle sway. When being passed by larger vehicles, be prepared for possible changes in crosswinds that could affect vehicle handling. If swaying does occur, firmly grip the steering wheel, steer straight ahead, and immediately (but gradually) reduce vehicle speed. This combination will help stabilize the vehicle. Never increase speed.
- Be careful when passing other vehicles. Passing while towing a trailer requires considerably more distance than normal passing. Remember, the length of the trailer must also pass the other vehicle before you can safely change lanes.
- To maintain engine braking efficiency and electrical charging performance, do not use 5th 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, transmission oil/fluid should be changed more frequently. For additional information, see the "Maintenance and do-it-yourself" section earlier in this manual.

FLAT TOWING

Towing your vehicle with all four wheels on the ground is sometimes called flat towing. This method is sometimes used when towing a vehicle behind a recreational vehicle, such as a motor home.

A CAUTION

- Failure to follow these guidelines can result in severe transmission damage.
- Whenever flat towing your vehicle, always tow forward, never backward.
- DO NOT tow any automatic transmission vehicle with all four wheels on the ground (flat towing). Doing so WILL **DAMAGE** internal transmission parts due to lack of transmission lubrication.

• For emergency towing procedures refer to "Towing recommended by NISSAN" in the "In case of emergency" section of this manual.

Automatic Transmission

To tow a vehicle equipped with an automatic transmission, an appropriate vehicle dolly MUST be placed under the towed vehicle's drive wheels. Always follow the dolly manufacturer's recommendations when using their product.

Manual Transmission

- Always tow with the manual transmission in Neutral.
- After towing 500 miles, start and idle the engine with the transmission in Neutral for two minutes. Failure to idle the engine after every 500 miles of towing may cause damage to internal transmission parts.

UNIFORM TIRE QUALITY GRADING

DOT (Department of Transportation) Quality Grades: All passenger car tires must conform to federal safety requirements in addition to these grades.

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

Treadwear

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

Traction AA, A, B and C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING

The traction grade assigned to your vehicle tires is based on straight-ahead braking traction tests and does not include acceleration, cornering, hydroplaning or peak traction characteristics.

Temperature A, B and C

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

AWARNING

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure.

9-18 Technical and consumer information

EMISSION CONTROL SYSTEM WARRANTY

Your NISSAN vehicle is covered by the following emission warranties:

For USA

- 1. Emission Defects Warranty
- 2. Emissions Performance Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

 Nissan North America, Inc. Consumer Affairs Department P.O. Box 191 Gardena, CA 90248-0191

For Canada

Emission Control System Warranty

Details of these warranties may be found with other vehicle warranties in your Warranty Information Booklet which comes with your NISSAN vehicle. If you did not receive a Warranty Information Booklet, or it is lost, you may obtain a replacement by writing to:

 Nissan Canada Inc. 5290 Orbitor Drive Mississauga, Ontario, L4W 4Z5

REPORTING SAFETY DEFECTS (US only)

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying NISSAN.

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 NISSAN.

To contact NHTSA, you may call the Auto Safety Hotline toll-free at 1-888-327-4236. You may also write to: NHTSA, U.S. Department of Transportation, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from the Hotline.

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

In Hawaii call 1-808-836-0888.

READINESS FOR INSPECTION/ MAINTENANCE (I/M) TEST

Due to legal requirements in some states and Canadian Provinces, your vehicle may be reguired to be in what is called the "ready condition" for an Inspection/Maintenance (I/M) test of the emission control system.

The vehicle is set to the "ready condition" when it is driven through certain driving patterns. Usually, the ready condition can be obtained by ordinary usage of the vehicle.

If a powertrain system component is repaired or the battery is disconnected, the vehicle may be reset to a "not ready" condition. Before taking the I/M test, drive the vehicle through the following pattern to set the vehicle to the ready condition. If you cannot or do not want to perform the driving pattern, a NISSAN dealer can conduct it for you.

AWARNING

Always drive the vehicle in a safe and prudent manner according to traffic conditions and obey all traffic laws.

1. Start the engine when the engine coolant temperature gauge needle points to C. Allow the engine to idle until the gauge needle points between the C and H (normal operating temperature).

- Accelerate the vehicle to 55 MPH (88 km/h), then quickly release the accelerator pedal completely and keep it released for at least 6 seconds.
- Quickly depress the accelerator pedal for a moment, then drive the vehicle at a speed of 53 - 60 MPH (86 - 96 km/h) for at least 5 minutes.
- 4. Stop the vehicle.
- 5. Accelerate the vehicle to 35 MPH (55 km/h) and maintain the speed for 20 seconds.
- 6. Repeat steps 4 through 5 at least three times.
- Accelerate the vehicle to 55 MPH (88 km/h) and maintain the speed for at least 3 minutes.
- Stop the vehicle. Place the transmission selector lever in the P (Park) or N (Neutral) position.
- 9. Turn the engine off.
- 10. Repeat steps 1 8 at least one more time.

If steps 1 through 7 are interrupted, repeat the preceding step. Any safe driving mode is acceptable between steps. Do not stop the engine until step 7 is completed.

Genuine Nissan Service Manuals



OWNER'S MANUAL/SERVICE MANUAL ORDER INFORMATION

A genuine NISSAN Service Manual is the best source of service and repair information for your vehicle. Filled with wiring diagrams, illustrations and step-by-step diagnostic and adjustment procedures, this manual is the same one used by the factory trained technicians working at NISSAN dealerships. Also available are genuine NISSAN Owner's Manuals, and genuine NISSAN Service and Owner's Manuals for older NISSAN models.

For USA

For current pricing and availability of genuine NISSAN Service Manuals for the 2000 model year and later contact:

Tweddle Litho Company 1-800-639-8841 www.nissan-techinfo.com

For current pricing and availability of genuine NISSAN Service Manuals for the 1999 model year and prior, see a NISSAN dealer, or contact:

DDS Distribution Service, Ltd. 20770 Westwood Road Strongsville, OH 44136 1-800-247-5321

For current pricing and availability of genuine NISSAN Owner's Manuals for the 2004 model year and prior, see a NISSAN dealer, or contact:

DDS Distribution Service, Ltd. 20770 Westwood Road Strongsville, OH 44136 1-800-247-5321

For Canada

To purchase a copy of a genuine NISSAN Service Manual or Owner's Manual please contact your nearest NISSAN dealer. For the phone number and location of a NISSAN dealer in your area call the NISSAN Information Center at 1-800-387-0122 and a bilingual NISSAN representative will assist vou.

Also available are genuine NISSAN Service and Owner's Manuals for older NISSAN models.

IN THE EVENT OF A COLLISION

Unfortunately, accidents do occur. In this unlikely event, there is some important information you should know.

Many insurance companies routinely authorize the use of non-genuine collision parts in order to cut costs, among other reasons.

Insist on the use of genuine NISSAN collision parts!

If you want your vehicle to be restored using parts made to NISSAN's original exacting specifications - if you want to help it to last and hold its resale value, the solution is simple. Tell vour insurance agent and your repair shop to only use Genuine NISSAN Collision Parts. NISSAN does not warrant non-NISSAN parts. nor does NISSAN's warranty apply to damage caused by a non-genuine part.

Using Genuine NISSAN Parts can help protect your personal safety, preserve your warranty protection and maintain the resale value of your vehicle. And if your vehicle was leased, using Genuine NISSAN Parts may prevent or limit unnecessary excess wear and tear expenses at the end of your lease.

NISSAN designs its hoods with crumple zones to minimize the risk that the hood will penetrate the windshield of your vehicle in an accident. Nongenuine (imitation) parts may not provide such built in safeguards. Also, non-genuine parts often show premature wear, rust and corrosion.

Why should you take a chance?

In over 40 states, the law says you must be advised if non-genuine parts are used to repair vour vehicle. And some states have enacted laws that restrict insurance companies from authorizing the use of non-genuine collision parts during the new vehicle warranty. These laws help protect you, so you can take action to protect yourself.

It's your right!

If you should need further information visit us at: www.nissanusa.com.

10 Index

А	Automatic Automatic power window switch 2-34	Brightness control Instrument panel
Air bag (See supplemental restraint system)	Automatic transmission fluid (ATF)8-13 Automatic transmission position indicator light	Bulb check/instrument panel
Air cleaner housing filter	Driving with automatic transmission 5-7 Transmission selector lever lock release 5-9	С
Air conditioner Air conditioner operation	Automatic anti-glare inside mirror	Capacities and recommended fuel/lubricants
Air conditioner specification laber9-11 Air conditioner system refrigerant and	В	Cargo (See vehicle loading information)9-1:
lubrication recommendations	Battery	CD care and cleaning
Alarm system	Before starting the engine	Child restraints 1-24, 1-25, 1-30, 1-3 Precautions on child restraints
(See vehicle security system)	Brake Anti-lock brake system (ABS)5-17	Top tether strap anchor point locations1-3: Child safety rear door lock
Antenna	Brake booster	Chimes, audible reminders
Anti-lock brake system (ABS)5-17 Anti-lock brake warning light2-9	Brake fluid	Cleaning exterior and interior
Armrests	Brake pedal	Clutch
Audible reminders	Brake system	Clutch fluid
FM-AM radio with compact disc (CD)	Brake wear indicators	Console box
changer	Parking brake check	Controls Heater and air conditioner
player	Self-adjusting brakes	controls

Coolant Capacities and recommended fuel/lubricants	Capacities and recommended fuel/lubricants	
D	Engine oil	Fuel filler lid
Daytime running light system (Canada only)	Engine oil viscosity	Fuel filler lid lock opener lever3-13 Fuel gauge2-14 Fuel octane rating9-4 Fuel recommendation9-3 Fuses8-24 Fusible links8-24
Drive belts	Lyegiass case	G
Driving Cold weather driving	Flashers (See hazard warning flasher switch)	Garage door opener, HomeLink® Universal Transceiver
E	Floor mat positioning aid	Odometer
Economy - fuel	Automatic transmission fluid (ATF)	Speedometer .2-4 Tachometer .2-6 Trip odometer .2-4 General maintenance .8-2 Glove box .2-29 Glove box lock .2-29

н	К	Lights Map lights
Hazard warning flasher switch	Key	Lock Child safety rear door lock
Heater and air conditioner	Labels Air conditioner specification label9-11 Emission control information label9-11 Engine serial number	Power door locks
1	F.M.V.S.S. certification label	M
Ignition switch	Warning labels (for SRS)	Maintenance General maintenance
J	Trunk light	Multi-remote control system (See remote keyless entry system)
Jump starting	reminders	(2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.

N	Power door locks	s
Nissan vehicle immobilizer system NVIS)	Power outlet	Safety Child safety rear door lock
0	Power windows	Reporting safety defects (US only) 9-19 Seat adjustment
Octane rating (See fuel octane rating)	Precautions Maintenance precautions	Seat adjustment Front manual seat adjustment
Engine oil and oil filter recommendation9-5 Engine oil pressure low/engine coolant	R	Pregnant women
temperature high warning light	Radio Car phone or CB radio	Seat belt maintenance
P	Rear power windows	Heated seats
Parking Parking brake check	Rear window defogger switch	Rear seat

Steering Power steering fluid	Shift lock release	Headlight and turn signal switch	Trailer tow Traction contr Transceiver HomeLink Transmission Automatic Driving wit Driving wit Selector le
Jump starting		Т	· .
Precautions when starting and driving5-2 Push starting6-8 Starting the engine5-6 Steering5-6 Power steering fluid8-14 Power steering system5-16 Tilting steering wheel3-14 Storage2-27 Sunglasses case2-27 Sunglasses holder2-27 Sunglasses holder2-34 Supplemental air bag warning light1-20, 2-11 Supplemental restraint system		Technology	, ,
Push starting			
Starting the engine			
Steering Power steering fluid. 8-14 Power steering system 5-16 Tilting steering wheel 3-14 Storage 2-27 Sunglasses case 2-27 Sunglasses holder 2-27 Sunglasses holder 2-27 Sunglemental air bag warning light 1-20, 2-11 Supplemental restraint system Information and warning labels. 1-20 Precautions on supplemental restraint system (Supplemental restraint system (Supplemental air bag system) 1-8 Switch Autolight switch 2-20 Automatic power window switch 2-34 Fog light switch 2-22 Flat time 1-20, 2-17 Time signal sw turn signal sw			Trunk light
Power steering system .5-16 Tilting steering wheel .3-14 Storage .2-27 Sunglasses case .2-27 Sunglasses holder .2-27 Sunglemental air bag warning light .1-20, 2-11 Supplemental restraint system Information and warning labels .1-20 Precautions on supplemental restraint system .1-8 Supplemental restraint system Supplemental restraint system (Supplemental restraint system Supplemental restraint system Switch Autolight switch .2-20 Automatic power window switch .2-34 Fog light switch .2-22 Tire rotation .3-14 Tire pressure .6-3, 8-42 Tire chains .3-40 Tire placard .9-11 Tire pressure .8-38 Tire rotation .8-40 Vanity mirror . Vehicle dientification Vehicle identification Vehicle identification Vehicle loadin Vehicle loadin Vehicle loadin Vehicle loadin Vehicle recovery Vehicle security		temperature high warning light	Turn signal sw
Tilting steering wheel			turn signal sw
Stop light	0 ,		
Storage			
Sunglasses case			
Sunglasses holder			Uniform tiro a
Surpoof			Official the q
Supplemental air bag warning light 1-20, 2-11 Supplemental restraint system Information and warning labels 1-20 Precautions on supplemental restraint system 1-8 Supplemental restraint system (Supplemental air bag system) . 1-8 Switch Autolight switch 2-20 Automatic power window switch . 2-34 Fog light switch 2-22 Tire placard . 9-11 Tire placard . 9-11 Tire placard . 9-11 Tire pressure . 8-38 Vanity mirror . Vehicle diment vehicle identification in the place of the			
Supplemental restraint system Information and warning labels 1-20 Precautions on supplemental restraint system 1-8 Supplemental restraint system (Supplemental restraint system) 1-8 Switch Autolight switch 2-20 Automatic power window switch 2-34 Fog light switch 2-22 Tow truck towing 8-38 Tire rotation 8-40 Tire rotation 8-40 Vanity mirror . Vehicle diment vehicle identification.			
Information and warning labels			
system. 1-8 Supplemental restraint system Wheels and tires 9-18 Supplemental air bag system) 1-8 Switch Top tether strap child restraint 1-38 Autolight switch 2-20 Automatic power window switch 2-34 Fog light switch 2-22 Tow truck towing 9-18 Vehicle identifi V			Vanity mirror.
Supplemental restraint system (Supplemental air bag system) .1-8 Switch Autolight switch .2-20 Automatic power window switch .2-34 Fog light switch .2-22 Tow truck towing .5-8 Vehicle identifi (Chassis num Vehicle i	Precautions on supplemental restraint	Types of tires	
(Supplemental restraint system) 1-8 Wheel/tire size 9-8 (Chassis num Switch Top tether strap child restraint 1-38 Vehicle identifit Autolight switch 2-20 Towing Vehicle loadin Fog light switch 2-22 Tow truck towing 9-17 Vehicle security			
Switch Top tether strap child restraint 1-38 Vehicle identification of the strap child restraint 1-38 Vehicle identification 1-38 Vehicle identification 1-38 Vehicle identification 1-38 Vehicle identification 1-38 Vehicle			
Autolight switch			•
Automatic power window switch			
Fog light switch			
Tog light switch			Vehicle securi

Trailer towing
HomeLink® Universal Transceiver2-38 Transmission
Automatic transmission fluid (ATF)
U
Uniform tire quality grading
v

Vehicle security system (Nissan vehicle immobilizer system), engine start	Power windows
w	vviper blades
Marning Air bag warning light	

GAS STATION INFORMATION

RECOMMENDED FUEL:

For 2.5L engine

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

For 3.5L engine

Use unleaded regular gasoline with an octane rating of at least 87 AKI (Anti-Knock Index) number (Research octane number 91).

For improved performance, NISSAN recommends the use of unleaded premium gasoline with an octane rating of at least 91 AKI number (Research octane number 96).

A CAUTION

- Using a fuel other than that specified could adversely affect the emission control system, and may also affect the warranty coverage.
- Under no circumstances should a leaded gasoline be used, because this will damage the three-way catalyst.

For additional information, see "Capacities and recommended fuel/lubricants in the "Technical and consumer information" section.

RECOMMENDED ENGINE OIL:

- API Certification Mark
- API grade SL, Energy Conserving
- ILSAC grade GF-III
- 5W-30 Viscosity preferred

See "Engine oil and oil filter recommendation" in the "Technical and consumer information" section of this manual.

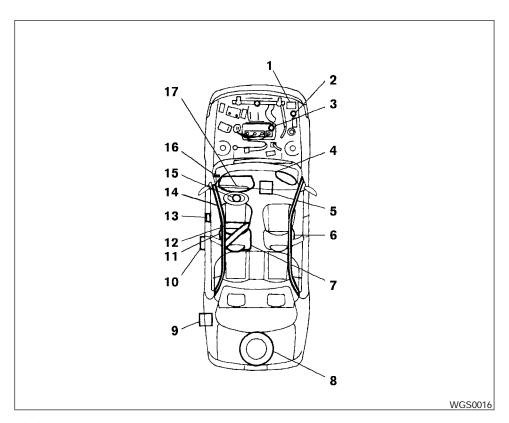
TIRE COLD PRESSURE:

See tire placard.

RECOMMENDED NEW VEHICLE **BREAK-IN PROCEDURE:**

During the first 1,200 miles (2,000 km) of vehicle use, follow the recommendations outlined in the "BREAK-IN SCHEDULE" information found in the "Starting and driving" section of this manual. Follow these recommendations for the future reliability and economy of your new vehicle. Failure to follow these recommendations may result in vehicle damage or shortened engine life.

QUICK REFERENCE



- 1. Engine coolant 8-8
- 2. Window washer fluid 8-16
- B. Engine oil 8-9
- Passenger supplemental front impact air bag
 1-8
- Audio system 4-14, 4-17, 4-22; Air conditioner 4-3, 4-10
- 6. Supplemental side-impact air bag 1-8
- 7. Front seats 1-2
- 3. Spare tire 6-2
- Fuel filler lid release 3-13; Fuel recommendation 9-3
- 10. Keys 3-2
- 11. Supplemental side-impact air bag 1-8
- 12. Seat belts 1-22
- 13. Trunk release 3-11
- Supplemental curtain side-impact air bag
 1-8
- 15. Driver supplemental front impact air bag 1-8
- 16. Hood release 3-10
- 17. Meters and gauges 2-3