

2000 DeVILLE



CADILLAC®



2000 Cadillac Deville Owner's Manual

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Table of Contents



Seats and Restraint Systems

- ▶ Seats and Seat Controls
- ▶ Safety Belts
- ▶ Air Bag Systems
- ▶ Child Restraints



Features and Controls

- ▶ Keys and Door Locks
- ▶ Remote Keyless Entry (RKE) System
- ▶ Trunk Release
- ▶ Automatic Transmission
- ▶ Parking Brake
- ▶ Windows
- ▶ Tilt Wheel
- ▶ Turn Signal/Multifunction Lever
- ▶ Windshield Wipers
- ▶ Cruise Control
- ▶ Interior and Exterior Lamps
- ▶ Mirrors
- ▶ Storage Compartments
- ▶ Convenience Net
- ▶ Accessory Power Outlets
- ▶ OnStar® System (Option)
- ▶ Sunroof (Option)
- ▶ HomeLink® Transmitter (Option)
- ▶ Instrument Panel, Warning Lights and Gages
- ▶ Head-Up Display
- ▶ Driver Information Center
- ▶ Memory and Personalization/Personal Choice Feature
- ▶ Oil Life Indicator



Table of Contents (cont'd)



Section 3

Comfort Controls and Audio Systems

- ▶ Heating and Air Conditioning
- ▶ Setting the Radio Clock
- ▶ Radio/Cassette Player/CD Player
- ▶ Radio Theft-Deterrent Feature
- ▶ Steering Wheel Controls (If Equipped)



Section 4

Your Driving and the Road

- ▶ Braking/Anti-lock Brakes
- ▶ Traction Control System
- ▶ Steering
- ▶ Driving Tips for Various Road Conditions
- ▶ Loading Your Vehicle
- ▶ Towing a Trailer



Section 5

Problems on the Road

- ▶ Hazard Warning Flashers
- ▶ Jump Starting
- ▶ Towing Your Vehicle
- ▶ Engine Overheating
- ▶ Changing a Flat Tire
- ▶ If You're Stuck



Table of Contents (cont'd)



Service and Appearance Care

- ▶ Fuel
- ▶ Checking Fluids and Lubricants
- ▶ Passenger Compartment Air Filter (If Equipped)
- ▶ Bulb Replacement
- ▶ Windshield Wiper Blade Replacement
- ▶ Tires and Wheels
- ▶ Appearance Care
- ▶ Electrical System/Fuses and Circuit Breakers
- ▶ Capacities and Specifications
- ▶ Normal Maintenance Replacement Parts



Table of Contents (cont'd)



Customer Assistance Information

- ▶ Customer Satisfaction Procedures
- ▶ Customer Assistance Offices
- ▶ Roadside Assistance and Courtesy Transportation
- ▶ Warranty Information (See Warranty Manual)
- ▶ Reporting Safety Defects on page 7-10
- ▶ Service Publications

Please refer to the last page of this manual for your *Service Station Guide*



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Please keep this manual in your vehicle, so it will be there if you ever need it when you're on the road. If you sell the vehicle, please leave this manual in it so the new owner can use it.



We support voluntary technician certification.

For Canadian Owners Who Prefer a French Language Manual:

Aux propriétaires canadiens: Vous pouvez vous procurer un exemplaire de ce guide en français chez votre concessionnaire ou au:

DGN Marketing Services Ltd.
1577 Meyerside Dr.
Mississauga, Ontario L5T 1B9

How to Use this Manual

Many people read their owner's manual from beginning to end when they first receive their new vehicle. If you do this, it will help you learn about the features and controls for your vehicle. In this manual, you'll find that pictures and words work together to explain things quickly.

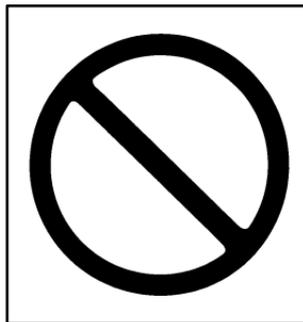
Safety Warnings and Symbols

You will find a number of safety cautions in this book. We use a box and the word CAUTION to tell you about things that could hurt you if you were to ignore the warning.



These mean there is something that could hurt you or other people.

In the caution area, we tell you what the hazard is. Then we tell you what to do to help avoid or reduce the hazard. Please read these cautions. If you don't, you or others could be hurt.



You will also find a circle with a slash through it in this book. This safety symbol means "Don't," "Don't do this" or "Don't let this happen."

Vehicle Damage Warnings

Also, in this book you will find these notices:

NOTICE:

These mean there is something that could damage your vehicle.

In the notice area, we tell you about something that can damage your vehicle. Many times, this damage would not be covered by your warranty, and it could be costly. But the notice will tell you what to do to help avoid the damage.

When you read other manuals, you might see CAUTION and NOTICE warnings in different colors or in different words.

You'll also see warning labels on your vehicle. They use the same words, CAUTION or NOTICE.

Vehicle Symbols

These are some of the symbols you may find on your vehicle.

For example, these symbols are used on an original battery:

CAUTION
POSSIBLE
INJURY



PROTECT
EYES BY
SHIELDING



CAUSTIC
BATTERY
ACID COULD
CAUSE
BURNS



AVOID
SPARKS OR
FLAMES



SPARK OR
FLAME
COULD
EXPLODE
BATTERY



These symbols are important for you and your passengers whenever your vehicle is driven:

DOOR LOCK
UNLOCK



FASTEN
SEAT
BELTS



POWER
WINDOW



AIR BAG



These symbols have to do with your lamps:

MASTER
LIGHTING
SWITCH



TURN
SIGNALS



PARKING
LAMPS



HAZARD
WARNING
FLASHER



DAYTIME
RUNNING
LAMPS



FOG LAMPS



These symbols are on some of your controls:

WINDSHIELD
WIPER



WINDSHIELD
WASHER



WINDSHIELD
DEFROSTER



REAR
WINDOW
DEFOGGER



VENTILATING
FAN



These symbols are used on warning and indicator lights:

ENGINE
COOLANT
TEMP



BATTERY
CHARGING
SYSTEM



BRAKE



COOLANT



ENGINE OIL
PRESSURE



ANTI-LOCK
BRAKES



Here are some other symbols you may see:

FUSE



LIGHTER



HORN



SPEAKER



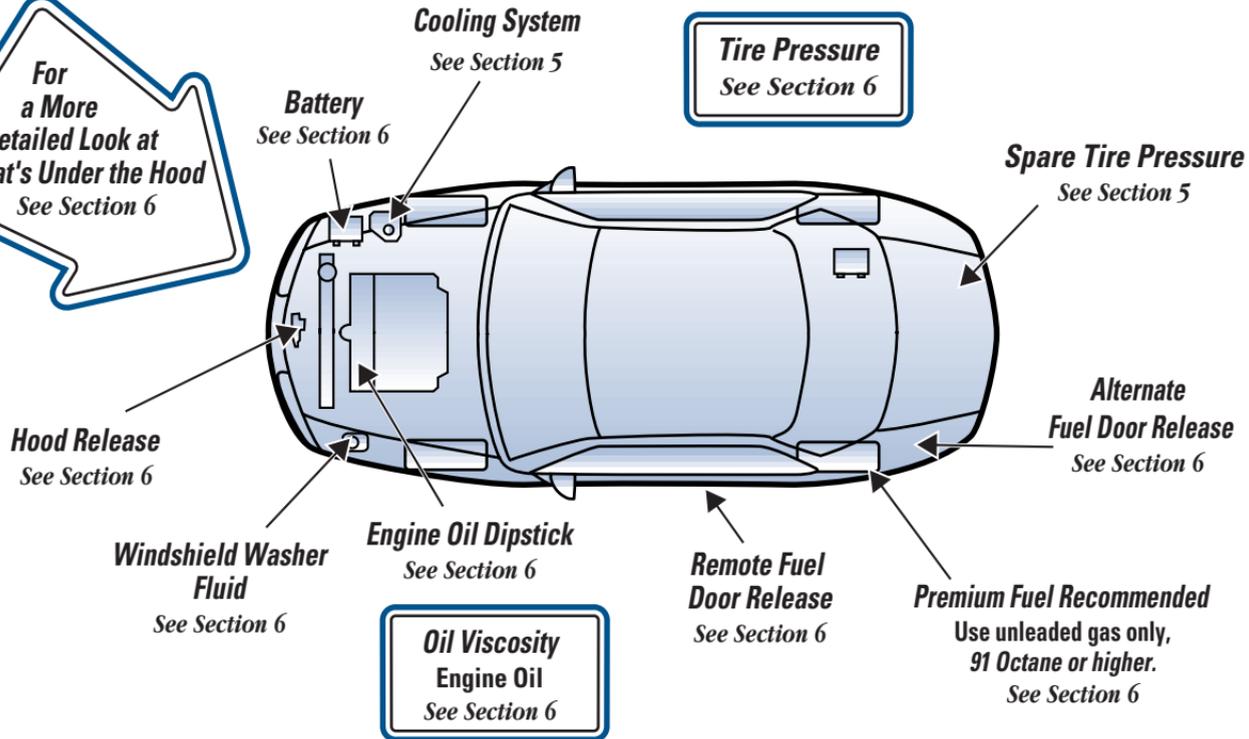
FUEL





Service Station Guide

**For
a More
Detailed Look at
What's Under the Hood
See Section 6**





Section 1 Seats and Restraint Systems

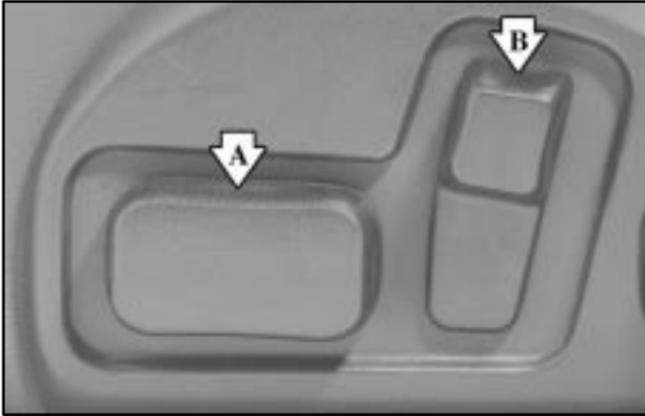
Here you'll find information about the seats in your vehicle and how to use your safety belts properly. You can also learn about some things you should *not* do with air bags and safety belts.

1-2	Seats and Seat Controls	1-34	Rear Seat Passengers
1-8	Safety Belts: They're for Everyone	1-39	Rear Safety Belt Comfort Guides for Children and Small Adults
1-13	Here Are Questions Many People Ask About Safety Belts -- and the Answers	1-41	Children
1-14	How to Wear Safety Belts Properly	1-44	Child Restraints
1-14	Driver Position	1-55	Larger Children
1-22	Safety Belt Use During Pregnancy	1-58	Safety Belt Extender
1-23	Right Front Passenger Position	1-58	Checking Your Restraint Systems
1-23	Air Bag Systems	1-58	Replacing Restraint System Parts After a Crash
1-33	Safety Belt Pretensioners		
1-33	Center Front Passenger Position		

Seats and Seat Controls

This section tells you about the power seats -- how to adjust them, and also about the reclining front seatbacks, memory seats, lumbar adjustments and heated seats.

Power Seats



The power seat controls, located on the sides of the front seats, move and adjust the angle of the front seats.

- Moving the seat cushion control (A) forward or rearward moves the entire seat.
- Moving the seat cushion control (A) up or down adjusts the seat height.
- Lifting up or pressing down on the front part of the seat control (A) adjusts the front angle of the seat cushion.
- Lifting up or pressing down on the rear part of the seat control (A) adjusts the rear angle of the seat cushion.
- Lifting up or pressing down on the rear part of the recline control (B) will also adjust the position of the safety belt height adjuster.

Four-Way Power Lumbar Control (If Equipped)



If your vehicle has this feature, the driver's and passenger's seatback lumbar support can be adjusted four ways by moving the single switch located on the side of the seat.

To increase the lumbar support, push the switch forward. To decrease the support, push the switch backward. To adjust the location of the lumbar support, push the switch upward or downward.

Keep in mind that as your seating position changes, as it may during long trips, so should the position of your lumbar support. Adjust the seat as needed.

If you have the optional personalization package, the power lumbar control can be programmed for memory recall. For more information, see "Memory and Personalization Features" in the Index.

Massaging Lumbar (If Equipped)

Push the top of the lumbar control where it is marked AUTO briefly to activate the massage feature. The massage cycle will run continuously for up to 10 minutes and can be interrupted by pushing the lumbar control down briefly. The lumbar support can be adjusted during the massage cycle by moving the switch forward to increase support and rearward to decrease support. The massage cycle will continue to run even if the ignition is turned to OFF, unless interrupted.

Four-Way Rear Power Lumbar (If Equipped)

Four-way lumbar, without the massage feature, is also available for the outboard rear seating positions. To activate the rear lumbar feature, push forward on the switch located on the rear door trim to increase support or rearward to decrease support. The lumbar switch can also be moved up and down to adjust the location of the support.

Adaptive Seat Control (Option)

The adaptive seat control is located on the outboard side of each front seat. With the ignition in ON, first use the power seat control to get the proper position.

Then press the top of the control where it is marked AUTO. The system will inflate the cushion and take a reading, then automatically deflate the cushion to a suggested level of comfort, by distributing the pressure evenly.

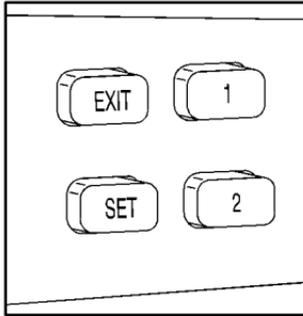
You may still wish to further adjust the overall firmness or softness of the seat cushion. To get to your desired level of comfort, hold the control up to increase the firmness, or down for less firmness. When you let go of the control, the seat will then automatically readjust to your desired level of comfort.

You will also need to adjust the lumbar support. To increase the lumbar support, push forward on the control and to decrease support, push rearward on the control. (The lumbar will then automatically adjust to your body's positioning for the duration of the trip in two-minute cycles.)

If you exit the vehicle after the system has been activated and the seat is left unoccupied for more than two minutes, the system will deflate. You will then need to readjust the lumbar support upon returning to your vehicle.

To turn off the adaptive seat feature while still in your vehicle, press the control down briefly. The seat will also deflate when the ignition is turned to OFF.

Memory Seat, Mirrors and Steering Wheel (Option)



The controls for these features are located on the driver's door panel, and are used to program and recall previous settings.

Adjust the driver's seat (including the lumbar adjustments), both the outside mirrors and steering wheel to a comfortable position and then press the SET button. Within five seconds, press button 1.

A second mirror, seating and steering wheel position can be programmed by repeating the above steps and pressing button 2. Each time a memory button is pressed, a single beep will sound. Each time button 1 or 2 is pressed, the memory positions will be recalled. Two personalized exit positions can be set by first recalling

the driving position (1 or 2), positioning the wheel and seat in the desired exit positions and then pressing the SET button and, within five seconds, pressing the EXIT button. The exit position for either previously set driver can be recalled by pressing the EXIT button.

If you use the remote keyless entry transmitter to enter your vehicle, automatic seat and mirror movement will occur. The numbers on the back of the transmitters, 1 and 2, correspond directly to the numbers on the buttons on the door panel and each seat and mirror can be programmed to suit driver 1 or 2.

When the key is placed in the ignition in the OFF position or when the unlock button is pressed on the transmitter, the seats and mirrors will automatically adjust to the programmed position.

Programming for automatic mirror and/or seat movement is done through the Driver Information Center (DIC). You can choose to either select or not select automatic seat and/or mirror movement using the transmitter or by placing your key in the ignition. For programming information, see "Memory and Personalization Features" in the Index.

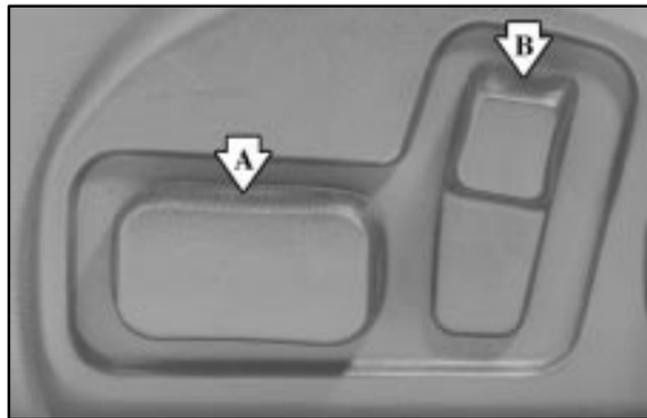
Heated Seats (Option)



Your vehicle may be equipped with heated front and rear seats. The control buttons are located on the armrests. The HEAT/OFF button controls the temperature settings HI, MED and LO. The other button is to choose BACK ONLY heating. The LO setting warms the seatback and cushion until the seat approximates body temperature. The MED and HI settings heat the seatback and seat cushion to a slightly higher temperature, and the BACK ONLY heats only the seatback. The temperature can be adjusted by pushing the button from HI to LO or, until the desired setting is reached. You will be able to feel

heat in approximately two minutes. To heat just the seatback, push the BACK ONLY button once, after first activating the heated seat feature. To turn off the heat in the seatback, push the button again. The feature will shut off when the ignition is turned to OFF.

Reclining Front Seatbacks



Press the recliner control (B), located on the side of the seat, forward or rearward to adjust the seatback.

Push the recliner control (B) up or down to adjust the safety belt tower.



But don't have a seatback reclined if your vehicle is moving.

⚠ CAUTION:

Sitting in a reclined position when your vehicle is in motion can be dangerous. Even if you buckle up, your safety belts can't do their job when you're reclined like this.

The shoulder belt can't do its job. In a crash you could go into it, receiving neck or other injuries.

The lap belt can't do its job either. In a crash the belt could go up over your abdomen. The belt forces would be there, not at your pelvic bones.

This could cause serious internal injuries.

For proper protection when the vehicle is in motion, have the seatback upright. Then sit well back in the seat and wear your safety belt properly.

Head Restraints

Slide the head restraint up or down so that the top of the restraint is closest to the top of your ears. This position reduces the chance of a neck injury in a crash.

On some models, the head restraints tilt forward and rear also.

Some rear seats have adjustable head restraints. Slide an adjustable head restraint up or down so that the top of the restraint is closest to the top of your ears. This position reduces the chance of a neck injury in a crash.

Safety Belts: They're for Everyone

This part of the manual tells you how to use safety belts properly. It also tells you some things you should not do with safety belts.

And it explains the air bag system.



CAUTION:

Don't let anyone ride where he or she can't wear a safety belt properly. If you are in a crash and you're not wearing a safety belt, your injuries can be much worse. You can hit things inside the vehicle or be ejected from it. You can be seriously injured or killed. In the same crash, you might not be if you are buckled up. Always fasten your safety belt, and check that your passengers' belts are fastened properly too.

 **CAUTION:**

It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and safety belts. Be sure everyone in your vehicle is in a seat and using a safety belt properly.



Your vehicle has a light that comes on as a reminder to buckle up. (See “Safety Belt Reminder Light” in the Index.)

In most states and Canadian provinces, the law says to wear safety belts. Here’s why: *They work.*

You never know if you’ll be in a crash. If you do have a crash, you don’t know if it will be a bad one.

A few crashes are mild, and some crashes can be so serious that even buckled up a person wouldn’t survive. But most crashes are in between. In many of them, people who buckle up can survive and sometimes walk away. Without belts they could have been badly hurt or killed.

After more than 30 years of safety belts in vehicles, the facts are clear. In most crashes buckling up does matter ... a lot!

Why Safety Belts Work

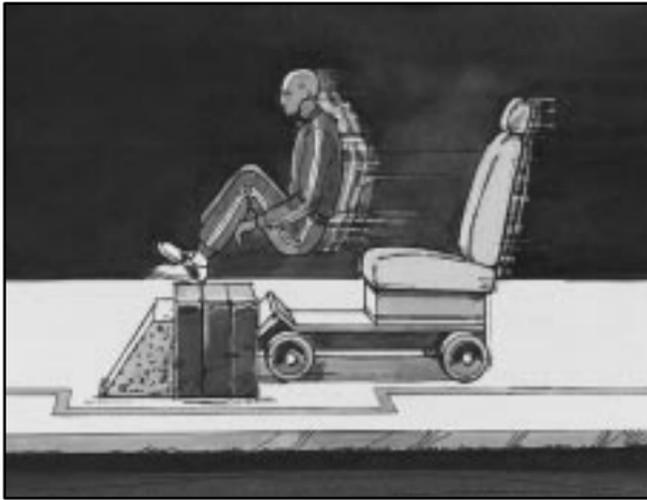
When you ride in or on anything, you go as fast as it goes.



Take the simplest vehicle. Suppose it's just a seat on wheels.



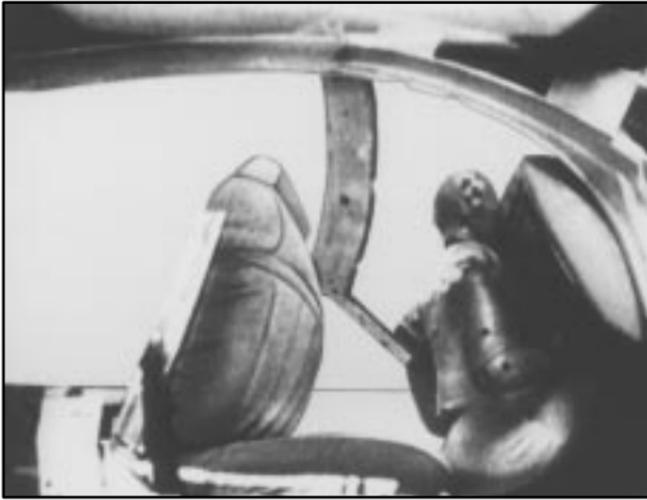
Put someone on it.



Get it up to speed. Then stop the vehicle. The rider doesn't stop.



The person keeps going until stopped by something. In a real vehicle, it could be the windshield ...



or the instrument panel ...



or the safety belts!

With safety belts, you slow down as the vehicle does. You get more time to stop. You stop over more distance, and your strongest bones take the forces. That's why safety belts make such good sense.

Here Are Questions Many People Ask About Safety Belts -- and the Answers

Q: Won't I be trapped in the vehicle after an accident if I'm wearing a safety belt?

A: You *could* be -- whether you're wearing a safety belt or not. But you can unbuckle a safety belt, even if you're upside down. And your chance of being conscious during and after an accident, so you *can* unbuckle and get out, is *much* greater if you are belted.

Q: If my vehicle has air bags, why should I have to wear safety belts?

A: Air bags are in many vehicles today and will be in most of them in the future. But they are supplemental systems only; so they work *with* safety belts -- not instead of them. Every air bag system ever offered for sale has required the use of safety belts. Even if you're in a vehicle that has air bags, you still have to buckle up to get the most protection. That's true not only in frontal collisions, but especially in side and other collisions.

Q: If I'm a good driver, and I never drive far from home, why should I wear safety belts?

A: You may be an excellent driver, but if you're in an accident -- even one that isn't your fault -- you and your passengers can be hurt. Being a good driver doesn't protect you from things beyond your control, such as bad drivers.

Most accidents occur within 25 miles (40 km) of home. And the greatest number of serious injuries and deaths occur at speeds of less than 40 mph (65 km/h).

Safety belts are for everyone.

How to Wear Safety Belts Properly

Adults

This part is only for people of adult size.

Be aware that there are special things to know about safety belts and children. And there are different rules for smaller children and babies. If a child will be riding in your vehicle, see the part of this manual called “Children.” Follow those rules for everyone’s protection.

First, you’ll want to know which restraint systems your vehicle has.

We’ll start with the driver position.

Driver Position

This part describes the driver’s restraint system.

Lap-Shoulder Belt

The driver has a lap-shoulder belt. Here’s how to wear it properly.

1. Close and lock the door.
2. Adjust the seat (to see how, see “Seats” in the Index) so you can sit up straight.



3. Pick up the latch plate and pull the belt across you. Don’t let it get twisted.

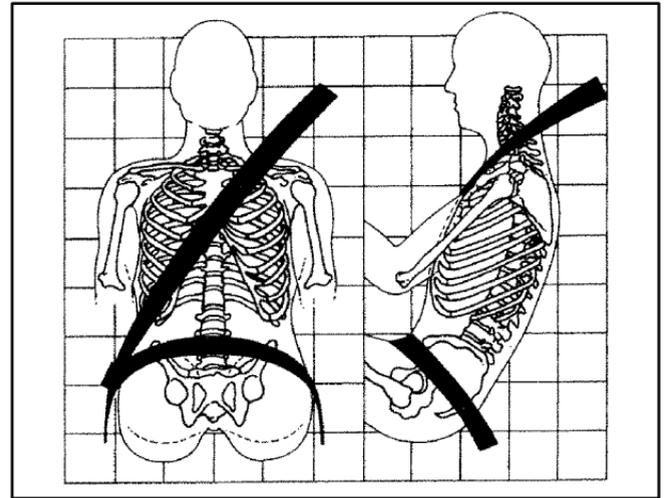
The lap-shoulder belt may lock if you pull the belt across you very quickly. If this happens, let the belt go back slightly to unlock it. Then pull the belt across you more slowly.

4. Push the latch plate into the buckle until it clicks.

Be sure to use the correct buckle when buckling your lap-shoulder belt. If you find that the latch plate will not go fully into the buckle, see if you are using the buckle for the center passenger position.

Pull up on the latch plate to make sure it is secure. If the belt isn't long enough, see "Safety Belt Extender" at the end of this section.

Make sure the release button on the buckle is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



The lap part of the belt should be worn low and snug on the hips, just touching the thighs. In a crash, this applies force to the strong pelvic bones. And you'd be less likely to slide under the lap belt. If you slid under it, the belt would apply force at your abdomen. This could cause serious or even fatal injuries. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.

The safety belt locks if there's a sudden stop or crash, or if you pull the belt very quickly out of the retractor.

Shoulder Belt Height Adjuster

Before you begin to drive, move the shoulder belt adjuster to the height that is right for you.



To move it down, press down on the power seat recline control and move the height adjuster to the desired position. You can move the adjuster up just by pushing up on the power seat recline control. After you move the adjuster to where you want it, try to move it down without pushing the power seat recline control to make sure it has locked into position.

Adjust the height so that the shoulder portion of the belt is centered on your shoulder. The belt should be away from your face and neck, but not falling off your shoulder.

Shoulder Belt Tightness Adjustment

Your vehicle may have a shoulder belt tightness adjustment feature. You can tell if your vehicle has this feature by following the steps below. If you can add a small amount of slack, your vehicle has this feature. If the shoulder belt seems too tight, adjust it before you begin to drive.

1. Sit well back in the seat.
2. Pull the shoulder belt all the way out of the retractor.
3. Let the belt go back all the way.



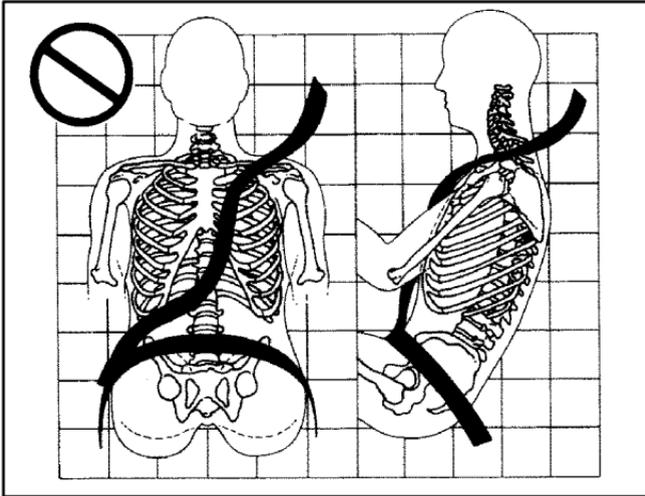
If you move around in the vehicle enough, or if you pull out the shoulder belt, the belt will become tight again. If this happens, you can reset it.

⚠ CAUTION:

For many people, it takes two hands to adjust the shoulder belt for tightness because a lot of webbing must be pulled out. If you ever tried to do this while driving, you could lose control of the vehicle. Adjust your shoulder belt for tightness only when your vehicle isn't moving.

4. Now you can add a small amount of slack. Lean forward slightly, then sit back. If you've added more than 1 inch (25 mm) of slack, pull the shoulder belt out as you did before and start again.

Q: What's wrong with this?

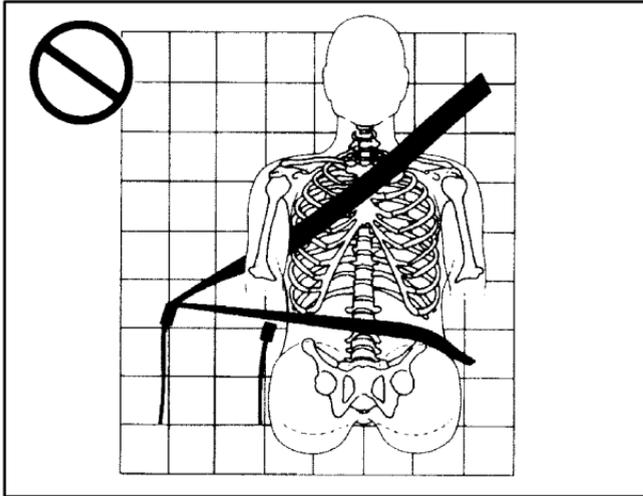


A: The shoulder belt is too loose. It won't give nearly as much protection this way.

⚠ CAUTION:

You can be seriously hurt if your shoulder belt is too loose. In a crash, you would move forward too much, which could increase injury. The shoulder belt should fit against your body. Don't allow more than 1 inch (25 mm) of slack.

Q: What's wrong with this?

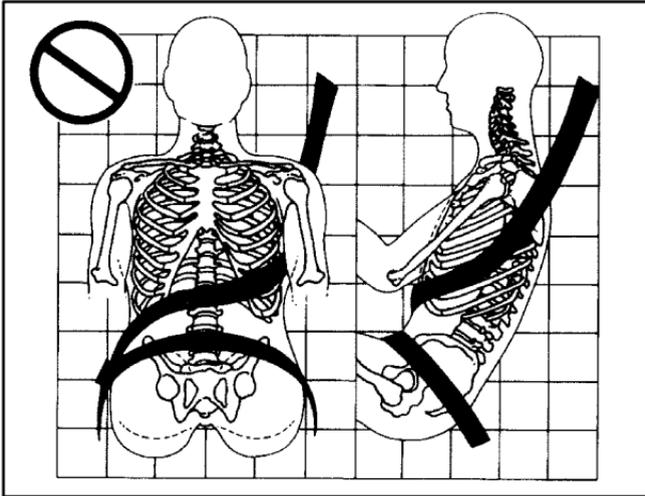


A: The belt is buckled in the wrong place.

⚠ CAUTION:

You can be seriously injured if your belt is buckled in the wrong place like this. In a crash, the belt would go up over your abdomen. The belt forces would be there, not at the pelvic bones. This could cause serious internal injuries. Always buckle your belt into the buckle nearest you.

Q: What's wrong with this?

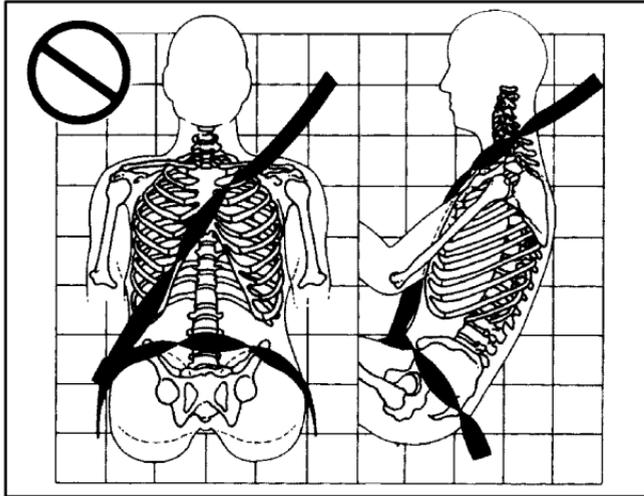


A: The shoulder belt is worn under the arm. It should be worn over the shoulder at all times.

⚠ CAUTION:

You can be seriously injured if you wear the shoulder belt under your arm. In a crash, your body would move too far forward, which would increase the chance of head and neck injury. Also, the belt would apply too much force to the ribs, which aren't as strong as shoulder bones. You could also severely injure internal organs like your liver or spleen.

Q: What's wrong with this?



A: The belt is twisted across the body.

⚠ CAUTION:

You can be seriously injured by a twisted belt. In a crash, you wouldn't have the full width of the belt to spread impact forces. If a belt is twisted, make it straight so it can work properly, or ask your dealer to fix it.

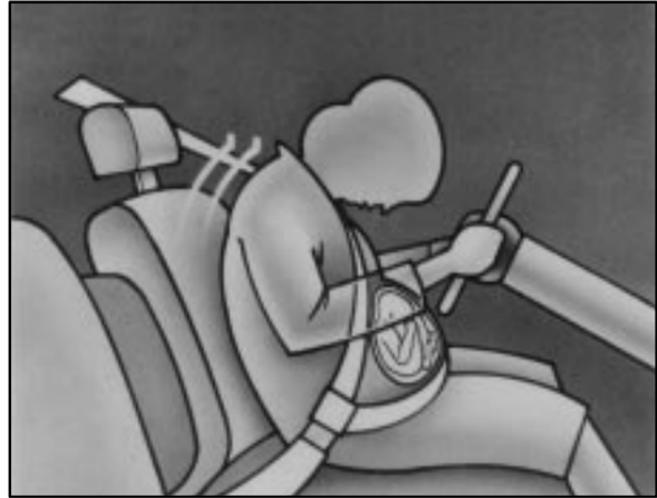


To unlash the belt, just push the button on the buckle. The belt should go back out of the way.

Before you close the door, be sure the belt is out of the way. If you slam the door on it, you can damage both the belt and your vehicle.

Safety Belt Use During Pregnancy

Safety belts work for everyone, including pregnant women. Like all occupants, they are more likely to be seriously injured if they don't wear safety belts.



A pregnant woman should wear a lap-shoulder belt, and the lap portion should be worn as low as possible, below the rounding, throughout the pregnancy.

The best way to protect the fetus is to protect the mother. When a safety belt is worn properly, it's more likely that the fetus won't be hurt in a crash. For pregnant women, as for anyone, the key to making safety belts effective is wearing them properly.

Right Front Passenger Position

To learn how to wear the right front passenger's safety belt properly, see "Driver Position" earlier in this section.

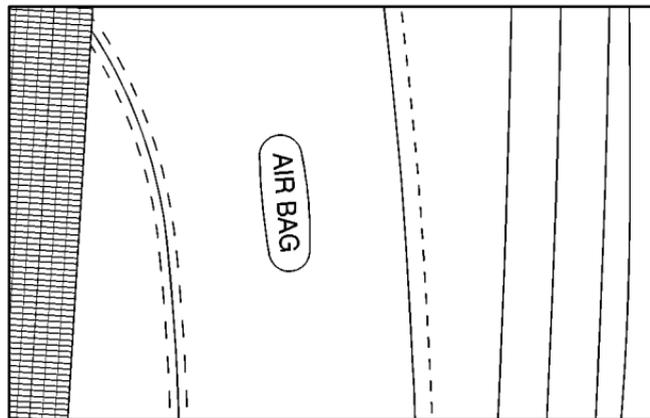
The right front passenger's safety belt works the same way as the driver's safety belt -- except for one thing. If you ever pull the lap portion of the belt out all the way, you will engage the child restraint locking feature. If this happens, just let the belt go back all the way and start again.

Air Bag Systems

This part explains the frontal and side impact air bag systems.

Your vehicle has air bags -- a frontal air bag for the driver and another frontal air bag for the right front passenger. Your vehicle also has a side impact air bag for the driver and another side impact air bag for the right front passenger. Your vehicle may also have a side impact air bag for each of the two rear seat outboard passenger positions.

If your vehicle has side impact air bags for each of the two rear seat outboard passenger positions, it will say AIR BAG on each side of the rear seatback closest to the door.



Frontal air bags are designed to help reduce the risk of injury from the force of an inflating frontal air bag. But these air bags must inflate very quickly to do their job and comply with federal regulations.

Here are the most important things to know about the air bag systems:

 **CAUTION:**

You can be severely injured or killed in a crash if you aren't wearing your safety belt -- even if you have air bags. Wearing your safety belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Air bags are "supplemental restraints" to the safety belts. All air bags are designed to work with safety belts but don't replace them.

CAUTION: (Continued)

CAUTION: (Continued)

Frontal air bags for the driver and right front passenger are designed to work only in moderate to severe crashes where the front of your vehicle hits something. They aren't designed to inflate at all in rollover, rear, side or low-speed frontal crashes. And, for unrestrained occupants, frontal air bags may provide less protection in frontal crashes than more forceful air bags have provided in the past. Side impact air bags are designed to inflate only in moderate to severe crashes where something hits the side of your vehicle. They aren't designed to inflate in frontal, in rollover or in rear crashes. Everyone in your vehicle should wear a safety belt properly -- whether or not there's an air bag for that person.



CAUTION:

Both frontal and side impact air bags inflate with great force, faster than the blink of an eye. If you're too close to an inflating air bag, as you would be if you were leaning forward, it could seriously injure you. Safety belts help keep you in position for air bag inflation before and during a crash. Always wear your safety belt, even with frontal air bags. The driver should sit as far back as possible while still maintaining control of the vehicle. Occupants should not lean on or sleep against the door.



CAUTION:

Anyone who is up against, or very close to, any air bag when it inflates can be seriously injured or killed. Air bags plus lap-shoulder belts offer the best protection for adults, but not for young children and infants. Neither the vehicle's safety belt system nor its air bag system is designed for them. Young children and infants need the protection that a child restraint system can provide. Always secure children properly in your vehicle. To read how, see the part of this manual called "Children."



United States



Canada

There is an air bag readiness light on the instrument panel, which shows the words AIR BAG or an air bag symbol.

The system checks the air bag electrical system for malfunctions. The light tells you if there is an electrical problem. See “Air Bag Readiness Light” in the Index for more information.

How the Air Bag Systems Work

Where are the air bags?



The driver's frontal air bag is in the middle of the steering wheel.



The driver's side impact air bag is in the side of the driver's seatback closest to the door.

The right front passenger's frontal air bag is in the instrument panel on the passenger's side.



The right front passenger's side impact air bag is in the side of the passenger's seatback closest to the door.



The side impact air bags for the rear seat outboard passenger positions are in the sides of the rear seatback closest to the doors.



CAUTION:

If something is between an occupant and an air bag, the bag might not inflate properly or it might force the object into that person. The path of an inflating air bag must be kept clear. Don't put anything between an occupant and an air bag, and don't attach or put anything on the steering wheel hub or on or near any other air bag covering and don't let seat covers block the inflation path of a side impact air bag.

When should an air bag inflate?

The driver's and right front passenger's frontal air bags are designed to inflate in moderate to severe frontal or near-frontal crashes. The frontal air bags are designed to inflate only if the impact speed is above the system's designed "threshold level." If your vehicle goes straight into a wall that doesn't move or deform, the threshold level is about 9 to 15 mph (14 to 24 km/h). The threshold level can vary, however, with specific vehicle design, so that it can be somewhat above or below this

range. If your vehicle strikes something that will move or deform, such as a parked car, the threshold level will be higher. The driver's and right front passenger's frontal air bags are not designed to inflate in rollovers, side impacts, or rear impacts, because inflation would not help the occupant.

The side impact air bags are designed to inflate in moderate to severe side crashes. A side impact air bag will inflate if the crash severity is above the system's designed "threshold level." The threshold level can vary with specific vehicle design. Side impact air bags are not designed to inflate in frontal or near-frontal impacts, rollovers or rear impacts, because inflation would not help the occupant. A side impact air bag will only deploy on the side of the vehicle that is struck.

In any particular crash, no one can say whether an air bag should have inflated simply because of the damage to a vehicle or because of what the repair costs were. For frontal air bags, inflation is determined by the angle of the impact and how quickly the vehicle slows down in frontal and near-frontal impacts. For side impact air bags, inflation is determined by the location and severity of the impact.

What makes an air bag inflate?

In an impact of sufficient severity, the air bag sensing system detects that the vehicle is in a crash. For both frontal and side impact air bags, the sensing system triggers a release of gas from the inflator, which inflates the air bag. The inflator, air bag and related hardware are all part of the air bag modules inside the steering wheel, instrument panel and the side of the front seatbacks and behind the rear seatbacks closest to the door.

How does an air bag restrain?

In moderate to severe frontal or near frontal collisions, even belted occupants can contact the steering wheel or the instrument panel. In moderate to severe side collisions, even belted occupants can contact the inside of the vehicle. The air bag supplements the protection provided by safety belts. Air bags distribute the force of the impact more evenly over the occupant's upper body, stopping the occupant more gradually. But the frontal air bags would not help you in many types of collisions, including rollovers, rear impacts, and side impacts, primarily because an occupant's motion is not toward the air bag. Side impact air bags would not help you in many types of collisions, including frontal or near

frontal collisions, rollovers, and rear impacts, primarily because an occupant's motion is not toward those air bags. Air bags should never be regarded as anything more than a supplement to safety belts, and then only in moderate to severe frontal or near-frontal collisions for the driver's and right front passenger's frontal air bags, and only in moderate to severe side collisions for the side impact air bags.

What will you see after an air bag inflates?

After an air bag inflates, it quickly deflates, so quickly that some people may not even realize the air bag inflated. Some components of the air bag module -- the steering wheel hub for the driver's air bag, the instrument panel for the right front passenger's bag, the side of the seatback closest to the door for the side impact air bags -- will be hot for a short time. The parts of the bag that come into contact with you may be warm, but not too hot to touch. There will be some smoke and dust coming from the vents in the deflated air bags. Air bag inflation doesn't prevent the driver from seeing or being able to steer the vehicle, nor does it stop people from leaving the vehicle.



CAUTION:

When an air bag inflates, there is dust in the air. This dust could cause breathing problems for people with a history of asthma or other breathing trouble. To avoid this, everyone in the vehicle should get out as soon as it is safe to do so. If you have breathing problems but can't get out of the vehicle after an air bag inflates, then get fresh air by opening a window or a door.

Your vehicle has a feature that will automatically unlock the doors and turn the interior lamps on when the air bags inflate (if battery power is available). You can lock the doors again and turn the interior lamps off by using the door lock and interior lamp controls.

In many crashes severe enough to inflate an air bag, windshields are broken by vehicle deformation. Additional windshield breakage may also occur from the right front passenger air bag.

- Air bags are designed to inflate only once. After an air bag inflates, you'll need some new parts for your air bag system. If you don't get them, the air bag system won't be there to help protect you in another crash. A new system will include air bag modules and possibly other parts. The service manual for your vehicle covers the need to replace other parts.
- Your vehicle is equipped with a crash sensing and diagnostic module, which records information about the frontal air bag system. The module records information about the readiness of the system, when the system commands air bag inflation and driver's safety belt usage at deployment or in a near-deployment crash. Some modules also record speed, engine rpm, brake and throttle data.
- Let only qualified technicians work on your air bag systems. Improper service can mean that an air bag system won't work properly. See your dealer for service.

NOTICE:

If you damage the covering for the driver's or the right front passenger's air bag, or the air bag covering on the driver's, right front passenger's or rear seatback, the bag may not work properly. You may have to replace the air bag module in the steering wheel, both the air bag module and the instrument panel for the right front passenger's air bag, or both the air bag module and seatback for the side impact air bag. Do not open or break the air bag coverings.

Servicing Your Air Bag-Equipped Vehicle

Air bags affect how your vehicle should be serviced. There are parts of the air bag systems in several places around your vehicle. Your dealer and the service manual have information about servicing your vehicle and the air bag systems. To purchase a service manual, see "Service and Owner Publications" in the Index.

CAUTION:

For up to 10 seconds after the ignition key is turned off and the battery is disconnected, an air bag can still inflate during improper service. You can be injured if you are close to an air bag when it inflates. Avoid yellow connectors. They are probably part of the air bag systems. Be sure to follow proper service procedures, and make sure the person performing work for you is qualified to do so.

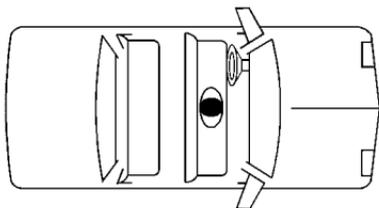
The air bag systems do not need regular maintenance.

Safety Belt Pretensioners

Your vehicle has safety belt pretensioners. You'll find them on the buckle end of the safety belts for the driver and right front passenger. They help the safety belts reduce a person's forward movement in a moderate to severe crash in which the front of the vehicle hits something.

Pretensioners work only once. If they activate in a crash, you'll need to get new ones, and probably other new parts for your safety belt system. See "Replacing Restraint System Parts After a Crash" in the Index.

Center Front Passenger Position

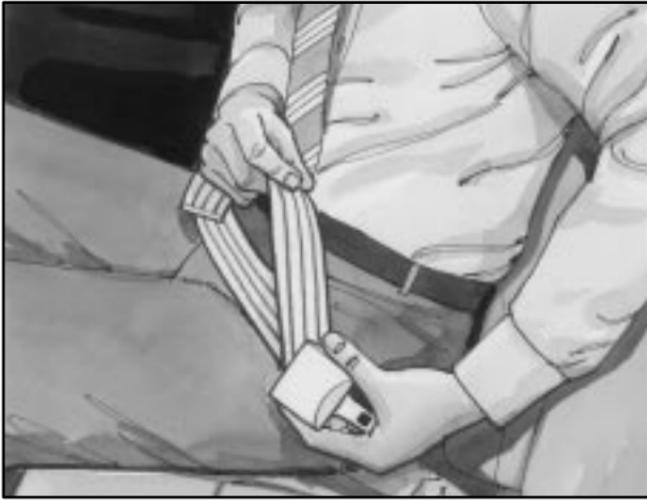


Lap Belt

If your vehicle has a front bench seat, someone can sit in the center position.



When you sit in the center front seating position, you have a lap safety belt, which has no retractor. To make the belt longer, tilt the latch plate and pull it along the belt.



To make the belt shorter, pull its free end as shown until the belt is snug.

Buckle, position and release it the same way as the lap part of a lap-shoulder belt. If the belt isn't long enough, see "Safety Belt Extender" at the end of this section.

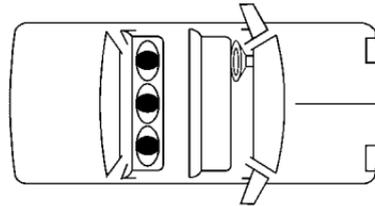
Make sure the release button on the buckle is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.

Rear Seat Passengers

It's very important for rear seat passengers to buckle up! Accident statistics show that unbelted people in the rear seat are hurt more often in crashes than those who are wearing safety belts.

Rear passengers who aren't safety belted can be thrown out of the vehicle in a crash. And they can strike others in the vehicle who are wearing safety belts.

Rear Seat Passenger Positions



Lap-Shoulder Belt

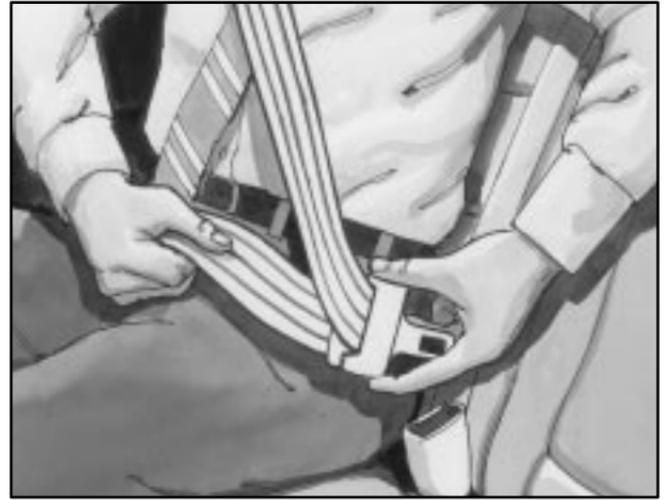
All three rear seating positions have lap-shoulder belts. Here's how to wear one properly.



1. Pick up the latch plate and pull the belt across you. Don't let it get twisted.

The shoulder belt may lock if you pull the belt across you very quickly. If this happens, let the belt go back slightly to unlock it. Then pull the belt across you more slowly.

2. Push the latch plate into the buckle until it clicks.



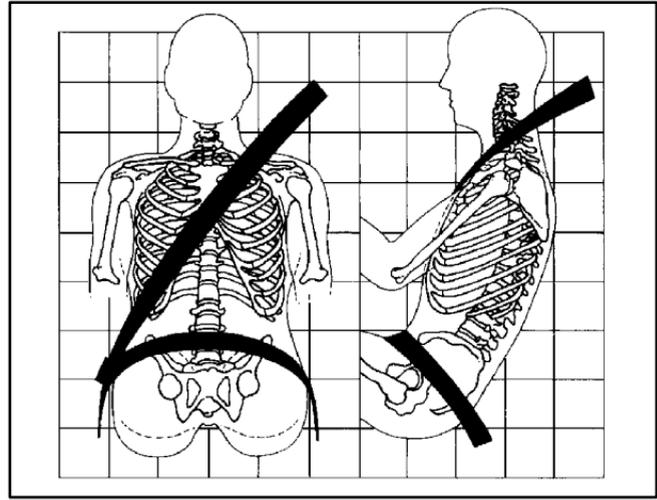
If the belt stops before it reaches the buckle, tilt the latch plate and keep pulling until you can buckle it.

Pull up on the latch plate to make sure it is secure.

If the belt is not long enough, see “Safety Belt Extender” at the end of this section. Make sure the release button on the buckle is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



3. To make the lap part tight, pull down on the buckle end of the belt as you pull up on the shoulder part.



The lap part of the belt should be worn low and snug on the hips, just touching the thighs. In a crash, this applies force to the strong pelvic bones. And you'd be less likely to slide under the lap belt. If you slid under it, the belt would apply force at your abdomen. This could cause serious or even fatal injuries. The shoulder belt should go over the shoulder and across the chest. These parts of the body are best able to take belt restraining forces.

The safety belt locks if there's a sudden stop or a crash, or if you pull the belt very quickly out of the retractor.

The rear outboard seating positions may have a shoulder belt tightness adjustment feature. You can tell if your vehicle has this feature by following the steps below. If you can add a small amount of slack, your vehicle has this feature.

If the shoulder belt seems too tight:

1. Sit well back in the seat.
2. Pull the shoulder belt all the way out of the retractor.
3. Let belt go back all the way.



4. Now you can add a small amount of slack. Lean forward slightly, then sit back. If you've added more than 1 inch (25 mm) of slack, pull the shoulder belt out as you did before and start again.

If you move around in the vehicle enough or if you pull out the shoulder belt, the belt will become tight again. If this happens, you can reset it.

⚠ CAUTION:

You can be seriously hurt if your shoulder belt is too loose. In a crash, you would move forward too much, which could increase injury. The shoulder belt should fit against your body.



To unlatch the belt, just push the button on the buckle.

Rear Safety Belt Comfort Guides for Children and Small Adults

Rear shoulder belt comfort guides will provide added safety belt comfort for children who have outgrown child restraints and for small adults. When installed on a shoulder belt, the comfort guide pulls the belt away from the neck and head.

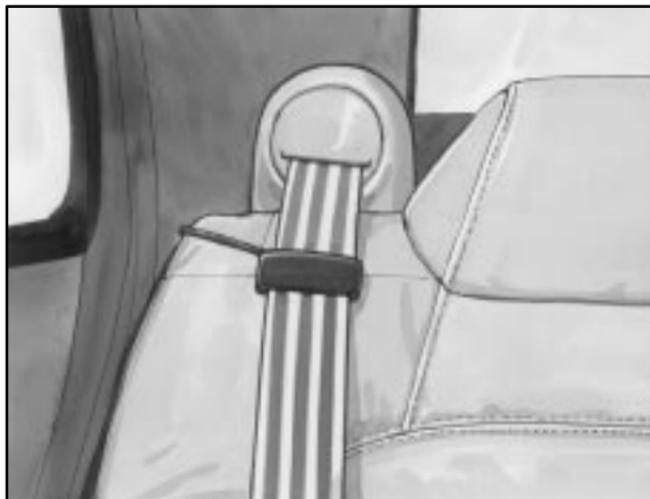
There is one guide for each outside passenger position in the rear seat. To provide added safety belt comfort for children who have outgrown child restraints and for smaller adults, the comfort guides may be installed on the shoulder belts. Here's how to install a comfort guide and use the safety belt:



1. Remove the guide from its storage pocket on the top of the seatback.



2. Slide the guide under and past the belt. The elastic cord must be under the belt. Then, place the guide over the belt, and insert the two edges of the belt into the slots of the guide.



3. Be sure that the belt is not twisted and it lies flat. The elastic cord must be under the belt and the guide on top.



4. Buckle, position and release the safety belt as described in “Rear Seat Passenger Positions” earlier in this section. Make sure that the shoulder belt crosses the shoulder.

To remove and store the comfort guides, squeeze the belt edges together so that you can take them out from the guides. Slide the guide into its storage pocket on the top of the seatback.

Children

Everyone in a vehicle needs protection! That includes infants and all children smaller than adult size. Neither the distance traveled nor the age and size of the traveler changes the need, for everyone, to use safety restraints. In fact, the law in every state in the United States and in every Canadian province says children up to some age must be restrained while in a vehicle.

Smaller Children and Babies

CAUTION:

Children who are up against, or very close to, any air bag when it inflates can be seriously injured or killed. Air bags plus lap-shoulder belts offer the best protection for adults, but not for young children and infants. Neither the vehicle’s safety belt system nor its air bag system is designed for them. Young children and infants need the protection that a child restraint system can provide. Always secure children properly in your vehicle.



CAUTION:

Smaller children and babies should always be restrained in a child or infant restraint. The instructions for the restraint will say whether it is the right type and size for your child. A very young child's hip bones are so small that a regular belt might not stay low on the hips, as it should. Instead, the belt will likely be over the child's abdomen. In a crash, the belt would apply force right on the child's abdomen, which could cause serious or fatal injuries. So, be sure that any child small enough for one is always properly restrained in a child or infant restraint.

Infants need complete support, including support for the head and neck. This is necessary because an infant's neck is weak and its head weighs so much compared with the rest of its body. In a frontal crash, an infant in a rear-facing restraint settles into the restraint, so the crash forces can be distributed across the strongest part of the infant's body, the back and shoulders. A baby should be secured in an appropriate infant restraint. This is so important that many hospitals today won't release a newborn infant to its parents unless there is an infant restraint available for the baby's first trip in a motor vehicle.



⚠ CAUTION:

Never hold a baby in your arms while riding in a vehicle. A baby doesn't weigh much -- until a crash. During a crash a baby will become so heavy you can't hold it. For example, in a crash

CAUTION: (Continued)

CAUTION: (Continued)

at only 25 mph (40 km/h), a 12-lb. (5.5 kg) baby will suddenly become a 240-lb. (110 kg) force on your arms. The baby would be almost impossible to hold.

Secure the baby in an infant restraint.

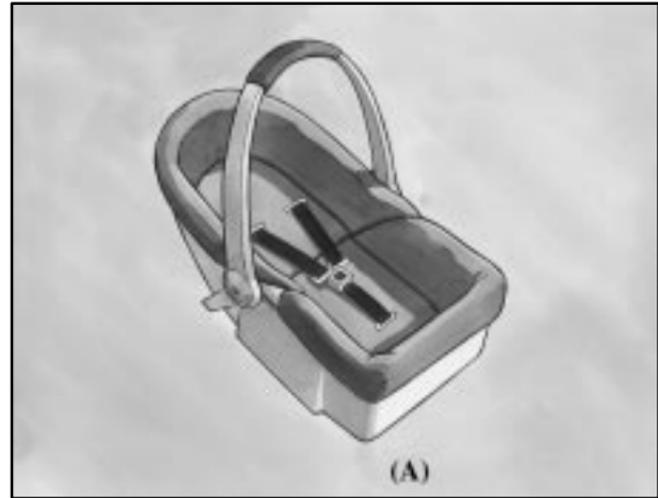


Child Restraints

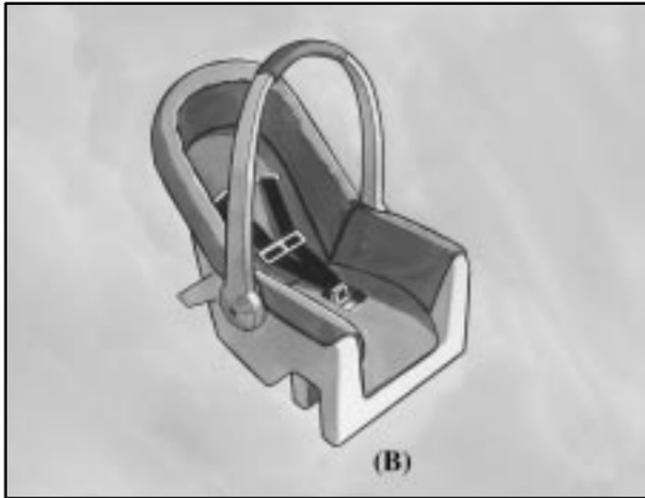
Every time infants and young children ride in vehicles, they should have protection provided by appropriate restraints.

Q: What are the different types of add-on child restraints?

A: Add-on child restraints are available in four basic types. When selecting a child restraint, take into consideration not only the child's weight and size, but also whether or not the restraint will be compatible with the motor vehicle in which it will be used.



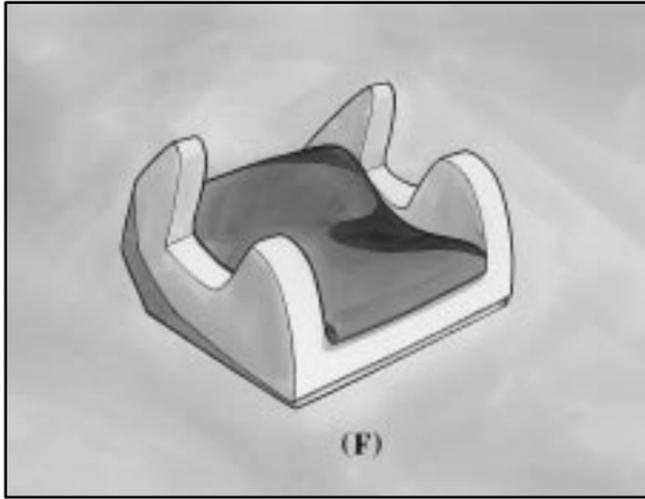
An infant car bed (A) is a special bed made for use in a motor vehicle. It's an infant restraint system designed to restrain or position a child on a continuous flat surface. With an infant car bed, make sure that the infant's head rests toward the center of the vehicle.



A rear-facing infant restraint (B) positions an infant to face the rear of the vehicle. Rear-facing infant restraints are designed for infants of up to about 20 lbs. (9 kg) and about one year of age. This type of restraint faces the rear so that the infant's head, neck and body can have the support they need in a frontal crash. Some infant seats come in two parts -- the base stays secured in the vehicle and the seat part is removable.



A forward-facing child restraint (C-E) positions a child upright to face forward in the vehicle. These forward-facing restraints are designed to help protect children who are from 20 to 40 lbs. (9 to 18 kg) and about 26 to 40 inches (66 to 102 cm) in height, or up to around four years of age. One type, a convertible restraint, is designed to be used either as a rear-facing infant seat or a forward-facing child seat.



A booster seat (F) is designed for children who are about 40 to 60 lbs., or even up to 80 lbs. (18 to 27 kg, or even up to 36 kg), and about four to eight years of age. A booster seat is designed to improve the fit of the vehicle's safety belt system. Booster seats with shields use lap-only belts; however, booster seats without shields use lap-shoulder belts. Booster seats can also help a child to see out the window.

When choosing a child restraint, be sure the child restraint is designed to be used in a vehicle. If it is, it will have a label saying that it meets federal motor vehicle safety standards.

Then follow the instructions for the restraint. You may find these instructions on the restraint itself or in a booklet, or both. These restraints use the belt system in your vehicle, but the child also has to be secured within the restraint to help reduce the chance of personal injury. The instructions that come with the infant or child restraint will show you how to do that. Both the owner's manual and the child restraint instructions are important, so if either one of these is not available, obtain a replacement copy from the manufacturer.

Where to Put the Restraint

Accident statistics show that children are safer if they are restrained in the rear rather than the front seat. We at General Motors therefore recommend that you put your child restraint in the rear seat. *Never* put a rear-facing child restraint in the front passenger seat. Here's why:

CAUTION:

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger's air bag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating air bag. Always secure a rear-facing child restraint in a rear seat.

You may secure a forward-facing child restraint in the right front seat, but before you do, always move the front passenger seat as far back as it will go. It's better to secure the child restraint in a rear seat.

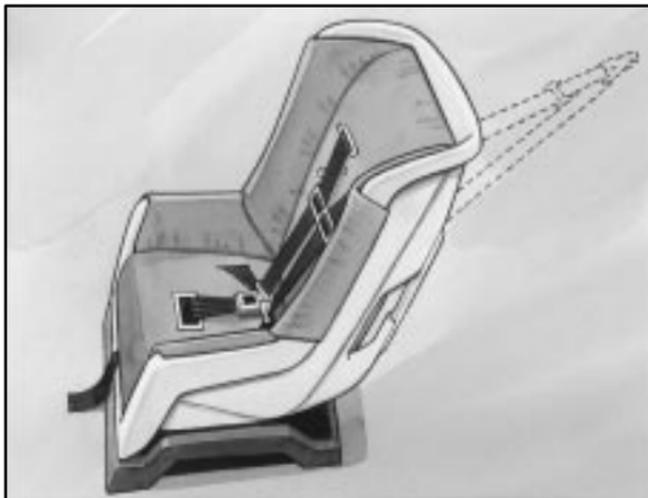
CAUTION:

A child in a child restraint in the center front seat can be badly injured or killed by the right front passenger air bag if it inflates. Never secure a child restraint in the center front seat. It's always better to secure a child restraint in the rear seat. You may secure a forward-facing child restraint in the right front passenger seat, but before you do, always move the front passenger seat as far back as it will go. It's better to secure the child restraint in a rear seat.

Wherever you install it, be sure to secure the child restraint properly.

Keep in mind that an unsecured child restraint can move around in a collision or sudden stop and injure people in the vehicle. Be sure to properly secure any child restraint in your vehicle -- even when no child is in it.

Top Strap



In Canada, the law requires that forward-facing child restraints have a top strap, and that the strap be anchored. In the United States, some child restraints also have a top strap. If your child restraint has a top strap, it should be anchored.

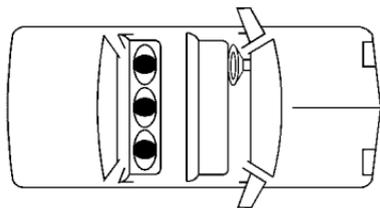
Your vehicle has top strap anchors already installed for the rear seating positions. You'll find them behind the rear seat on the filler panel.

In order to get to a bracket, you'll have to open the trim cover.



Anchor the top strap to this bracket. Once you have the top strap anchored, you'll be ready to secure the child restraint itself.

Securing a Child Restraint in a Rear Seat Position



You'll be using the lap-shoulder belt. See the earlier part about the top strap if the child restraint has one. Be sure to follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say.

1. Put the restraint on the seat.
2. Pick up the latch plate, and run the lap and shoulder portions of the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.

CAUTION:

A child in a child restraint in the center front seat can be badly injured or killed by the right front passenger air bag if it inflates. Never secure a child restraint in the center front seat. It's always better to secure a child restraint in the rear seat. You may secure a forward-facing child restraint in the right front passenger seat, but before you do, always move the front passenger seat as far back as it will go. It's better to secure the child restraint in the rear seat.



Tilt the latch plate to adjust the belt if needed.

If the shoulder belt goes in front of the child's face or neck, put it behind the child restraint.



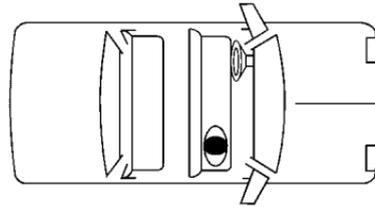
3. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



4. To tighten the belt, pull up on the shoulder belt while you push down on the child restraint. If you're using a forward-facing child restraint, you may find it helpful to use your knee to push down on the child restraint as you tighten the belt.
5. Push and pull the child restraint in different directions to be sure it is secure.

To remove the child restraint, just unbuckle the vehicle's safety belt and let it go back all the way. The safety belt will move freely again and be ready to work for an adult or larger child passenger.

Securing a Child Restraint in the Right Front Seat Position



Your vehicle has a right front passenger air bag. *Never* put a rear-facing child restraint in this seat. Here's why:

⚠ CAUTION:

A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger's air bag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating air bag. Always secure a rear-facing child restraint in the rear seat.

Although a rear seat is a safer place, you can secure a forward-facing child restraint in the right front seat.

You'll be using the lap-shoulder belt. See the earlier part about the top strap if the child restraint has one. Be sure to follow the instructions that came with the child restraint. Secure the child in the child restraint when and as the instructions say.

1. Because your vehicle has a right front passenger air bag, always move the seat as far back as it will go before securing a forward-facing child restraint. (See "Seats" in the Index.)
2. Put the restraint on the seat.

3. Pick up the latch plate, and run the lap and shoulder portions of the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.

If the shoulder belt goes in front of the child's face or neck, put it behind the child restraint.



4. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



5. Pull the rest of the lap belt all the way out of the retractor to set the lock.



6. To tighten the belt, feed the lap belt back into the retractor while you push down on the child restraint. You may find it helpful to use your knee to push down on the child restraint as you tighten the belt.
7. Push and pull the child restraint in different directions to be sure it is secure.

To remove the child restraint, just unbuckle the vehicle's safety belt and let it go back all the way. The safety belt will move freely again and be ready to work for an adult or larger child passenger.

Larger Children



Children who have outgrown child restraints should wear the vehicle's safety belts.

If you have the choice, a child should sit next to a window so the child can wear a lap-shoulder belt and get the additional restraint a shoulder belt can provide.

Accident statistics show that children are safer if they are restrained in the rear seat. But they need to use the safety belts properly.

- Children who aren't buckled up can be thrown out in a crash.
- Children who aren't buckled up can strike other people who are.



⚠ CAUTION:

Never do this.

Here two children are wearing the same belt. The belt can't properly spread the impact forces. In a crash, the two children can be crushed together and seriously injured. A belt must be used by only one person at a time.

Q: What if a child is wearing a lap-shoulder belt, but the child is so small that the shoulder belt is very close to the child's face or neck?

A: If the child is sitting in a seat next to a window, move the child toward the center of the vehicle. If the child is sitting in the center rear seat passenger position, move the child toward the safety belt buckle. In either case, be sure that the shoulder belt still is on the child's shoulder, so that in a crash the child's upper body would have the restraint that belts provide. If the child is sitting in a rear seat outside position, see "Rear Safety Belt Comfort Guides" in the Index.



⚠ CAUTION:

Never do this.

Here a child is sitting in a seat that has a lap-shoulder belt, but the shoulder part is behind the child. If the child wears the belt in this way, in a crash the child might slide under the belt. The belt's force would then be applied right on the child's abdomen. That could cause serious or fatal injuries.

The lap portion of the belt should be worn low and snug on the hips, just touching the child's thighs. This applies belt force to the child's pelvic bones in a crash.

Safety Belt Extender

If the vehicle's safety belt will fasten around you, you should use it.

But if a safety belt isn't long enough to fasten, your dealer will order you an extender. It's free. When you go in to order it, take the heaviest coat you will wear, so the extender will be long enough for you. The extender will be just for you, and just for the seat in your vehicle that you choose. Don't let someone else use it, and use it only for the seat it is made to fit. To wear it, just attach it to the regular safety belt.

Checking Your Restraint Systems

Now and then, make sure the safety belt reminder light and all your belts, buckles, latch plates, retractors and anchorages are working properly. Look for any other loose or damaged safety belt system parts. If you see anything that might keep a safety belt system from doing its job, have it repaired.

Torn or frayed safety belts may not protect you in a crash. They can rip apart under impact forces. If a belt is torn or frayed, get a new one right away.

Also look for any opened or broken air bag covers, and have them repaired or replaced. (The air bag system does not need regular maintenance.)

Replacing Restraint System Parts After a Crash

If you've had a crash, do you need new belts?

After a very minor collision, nothing may be necessary. But if the belts were stretched, as they would be if worn during a more severe crash, then you need new belts.

If belts are cut or damaged, replace them. Collision damage also may mean you will need to have safety belt or seat parts repaired or replaced. New parts and repairs may be necessary even if the belt wasn't being used at the time of the collision.

If an air bag inflates, you'll need to replace air bag system parts. See the part on the air bag system earlier in this section.

If the frontal air bags inflate, you'll also need to replace the driver's and right front passenger's safety belt buckle assembly. Be sure to do so. Then the new buckle assembly will be there to help protect you in a collision.



Section 2 Features and Controls

Here you can learn about the many standard and optional features on your vehicle, and information on starting, shifting and braking. Also explained are the instrument panel and the warning systems that tell you if everything is working properly -- and what to do if you have a problem.

2-2	Keys	2-39	Tilt Wheel and Telescopic Column
2-4	Door Locks	2-40	Turn Signal/Multifunction Lever
2-7	Remote Keyless Entry System	2-46	Exterior Lamps
2-12	Trunk	2-51	Interior Lamps
2-15	Theft	2-53	Mirrors
2-16	Theft-Deterrent System	2-57	Storage Compartments
2-18	PASS-Key [®] III	2-60	Rear Power Sunshade (If Equipped)
2-20	New Vehicle "Break-In"	2-61	Cellular Telephone (Option)
2-20	Ignition Positions	2-62	Sunroof (Option)
2-22	Starting Your Engine	2-63	HomeLink [®] Transmitter
2-24	Engine Coolant Heater (If Equipped)	2-68	The Instrument Panel -- Your Information System
2-25	Automatic Transaxle Operation	2-73	Warning Lights, Gages and Indicators
2-30	Parking Brake	2-87	Driver Information Center (DIC)
2-32	Shifting Into PARK (P)	2-102	Night Vision System (Option)
2-35	Shifting Out of PARK (P)	2-106	Navigation (Option)
2-36	Parking Over Things That Burn	2-107	Ultrasonic Rear Parking Assist (URPA) (Option)
2-37	Engine Exhaust		
2-37	Running Your Engine While You're Parked		
2-38	Windows		

Keys

CAUTION:

Leaving children in a vehicle with the ignition key is dangerous for many reasons. A child or others could be badly injured or even killed.

They could operate the power windows or other controls or even make the vehicle move. If they turned the ignition to ON and moved the shift lever out of PARK (P), that would release the parking brake. Don't leave the keys in a vehicle with children.





Master Key



Valet Key

There is a master key that works all of the lock cylinders (driver's door, trunk, ignition and glove box).

There is also a VALET key which only operates the driver's door and the ignition.

Both the master and VALET key have a transponder embedded into the key for security and vehicle theft deterrence. The keys also come with a bar code tag. Keep the bar code tag in a safe place. If you lose your key, you will be able to have a new one made using the bar code tag. The replacement key must have a vehicle theft deterrent system transponder embedded in it.

NOTICE:

Your vehicle has a number of new features that can help prevent theft. You can have a lot of trouble getting into your vehicle if you ever lock your keys inside. You may even have to damage your vehicle to get in. So be sure you have extra keys.

Door Locks

CAUTION:

Unlocked doors can be dangerous.

Passengers -- especially children -- can easily open the doors and fall out. When a door is locked, the inside handle won't open it.

Outsiders can easily enter through an unlocked door when you slow down or stop your vehicle.

This may not be so obvious: You increase the chance of being thrown out of the vehicle in a crash if the doors aren't locked. Wear safety belts properly, lock your doors, and you will be far better off whenever you drive your vehicle.

There are several ways to lock and unlock your vehicle. From the outside, use either of the keys or the remote keyless entry transmitter.

With the theft-deterrent system, you must unlock the doors with the key or remote keyless entry transmitter to avoid setting off the alarm.



Push down on the manual lock button to lock the door from the inside. To unlock the door, pull up on the button.

Central Door Unlocking System

Your vehicle has a central door unlocking mode and a theft-deterrent system. When unlocking the driver's door, you can unlock the other doors by holding the key in the turned position for a few seconds or by quickly turning the door key twice in the lock cylinder.

Power Door Locks



Press the power door lock button to lock or unlock all the doors at once. The power door lock buttons located on the rear doors can lock all the doors at once, but cannot unlock the doors.

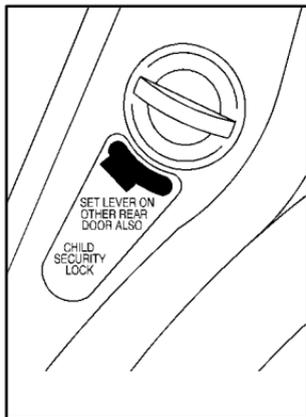
Automatic Door Locks

Your vehicle is equipped with a default mode, so that every time your doors are closed, the ignition is on and you move the shift lever out of PARK (P), all the doors will lock. The doors will unlock every time you stop the vehicle and move the shift lever back into PARK (P). If someone needs to get out while your vehicle is not in PARK (P), have that person use the manual or power lock. When the door is closed again, it will not lock automatically. Use the manual or power lock to lock the door again. If you need to lock the doors before shifting out of PARK (P), use the manual or power lock button to lock the doors.

Programmable Automatic Door Locks

With the ignition in ON, the door locks can be programmed through prompts displayed by the Driver Information Center (DIC). These prompts allow the driver to choose various lock settings. For programming information, see “Memory and Personalization Features” in the Index.

Rear Door Security Locks



Your vehicle is equipped with rear door security locks that help prevent passengers from opening the rear doors of your vehicle from the inside.

To use this lock:

1. Turn the knob on the passenger's side rear door clockwise all the way down to the **ENGAGED** position.
2. Close the door.
3. Turn the knob on the driver's side rear door counterclockwise all the way down to the engaged position.

The rear doors of your vehicle cannot be opened from the inside when this feature is in use.

When you want to open a rear door when the security lock is on:

1. Unlock the door from the inside.
2. Then open the door from the outside.

To cancel the rear door lock:

1. Unlock the door and open it from the outside.
2. Turn the passenger's side rear door knob counterclockwise all the way back to the original position.
3. Turn the driver's side rear door knob clockwise all the way back to the original position.

The rear door locks will now work normally.

Anti-Lockout Feature

Leaving your key in any ignition position with any door open will disable the use of the power door lock buttons as well as the lock button on the remote keyless entry transmitter. If you close the doors, you can lock them using the remote keyless entry transmitter. It is always recommended that you remove the ignition key when locking your vehicle.

Also, the anti-lockout feature can be overridden by holding the driver's power door lock button for three seconds or longer.

Leaving Your Vehicle

If you are leaving the vehicle, open the door, set the locks from the inside, get out and close the door.

Remote Keyless Entry System

With this feature, you can lock and unlock your doors or unlock your trunk from about 3 feet (1 m) up to 30 feet (9 m) away using the remote keyless entry transmitter supplied with your vehicle.



Your remote keyless entry transmitter operates on a radio frequency subject to Federal Communications Commission (FCC) Rules and with Industry Canada.

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

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Changes or modifications to this system by other than an authorized service facility could void authorization to use this equipment.

The average range of this system is about 10 feet (3 m). At times you may notice a decrease in range. This is normal for any remote keyless entry transmitter. If the transmitter does not work or if you have to stand closer to your vehicle for the transmitter to work, try this:

- Check the distance. You may be too far from your vehicle. You may need to stand closer during rainy or snowy weather.
- Check the location. Other vehicles or objects may be blocking the signal. Take a few steps to the left or right, hold the transmitter higher, and try again.
- Check to determine if battery replacement is necessary. See the instructions that follow.
- If you're still having trouble, see your dealer or a qualified technician for service.

Operation



 When you press this symbol to unlock the driver's door, the parking lamps on your vehicle will flash twice. (You can program your vehicle so the parking lamps will not flash. They will also not flash if the manual park lamps are on.)

For more information, see “Lock/Unlock Confirmation” in the Index.) Pressing this symbol again within five seconds will unlock the other doors. Pressing this symbol will also disarm the theft-deterrent system and turn on the interior lamps at night.

 When you press this symbol to lock the doors, the parking lamps will flash once and the horn will sound. The park lamps will not flash, however, if the manual park lamps are left on. (You can also program your vehicle so the parking lamps will not flash and the horn will not sound. For more information, see “Lock/Unlock Confirmation” in the Index.) This also arms the theft-deterrent system.

 Press this symbol to open the trunk. (The VALET lockout switch must be off for this feature to work.)

Your transmitter also comes equipped with an instant panic alarm. To use the alarm, press this symbol. The horn will sound and the exterior lights will flash for up to 30 seconds. To stop the instant panic alarm, press the symbol again or turn the ignition to ON.

The remote keyless entry transmitter can also be used to recall the memory settings for up to two drivers. For more information, see “Memory Seat and Mirrors” in the Index.

Matching Transmitter(s) To Your Vehicle

Each remote keyless entry transmitter is coded to prevent another transmitter from unlocking your vehicle. If a transmitter is lost or stolen, a replacement can be purchased through your dealer. Once your dealer has coded the new transmitter, the lost transmitter will not unlock your vehicle. Each vehicle can have only four transmitters matched to it.

Since all vehicles come with only two transmitters. You must check with your dealer for information on how to obtain additional transmitters.

Battery Replacement

Under normal use, the battery in your remote keyless entry transmitter should last about two years.

You can tell the battery is weak if the transmitter won't work at the normal range in any location. If you have to get close to your vehicle before the transmitter works, it's probably time to change the battery.

NOTICE:

When replacing the battery, use care not to touch any of the circuitry. Static from your body transferred to these surfaces may damage the transmitter.



1. Use the round end of the door key or a coin to pry open the transmitter.
2. Once the transmitter is separated, use a pencil (or similar object) to remove the old battery. Do not use a metal object.



3. Replace the battery. Insert the new battery as the instructions under the cover indicate.
4. Snap the transmitter back together tightly to be sure no moisture can enter.
5. Resynchronize the transmitter. See “Resynchronization” following.

Resynchronization

Pressing the remote keyless entry transmitter buttons numerous times (approximately 250 times) out of the vehicle’s operating range may cause the transmitter not to work. Replacing the battery and pressing the transmitter buttons out of range will also cause the transmitter not to work. If only the instant alarm button works, the transmitter needs to be resynchronized to the receiver. Do this by pressing and holding both the lock and unlock buttons on the transmitter for about eight seconds. You must be within range of the vehicle.

Once the transmitter has been resynchronized, the locks will cycle from lock to unlock. See your dealer for service if your transmitter doesn’t work properly.

Trunk

CAUTION:

It can be dangerous to drive with the trunk lid open because carbon monoxide (CO) gas can come into your vehicle. You can't see or smell CO. It can cause unconsciousness and even death.

If you must drive with the trunk lid open or if electrical wiring or other cable connections must pass through the seal between the body and the trunk lid:

- **Make sure all other windows are shut.**
- **Turn the fan on your heating or cooling system to its highest speed with the setting on AUTO or ECON and the temperature between 65° F (18° C) and 85° F (29° C). That will force outside air into your vehicle. See “Comfort Controls” in the Index.**
- **If you have air outlets on or under the instrument panel, open them all the way. See “Engine Exhaust” in the Index.**

Trunk Lock Release



To use this feature, your vehicle must be in PARK (P) or NEUTRAL (N) and the VALET lockout switch must be off.

Press the trunk release button, located on the left side of the instrument panel, to open the trunk.

You can also press the trunk button on the remote keyless entry transmitter to access the trunk compartment. To disable the use of this feature, see “Valet Lockout Switch” in the Index.

Trunk Lid Tie Down



CAUTION:

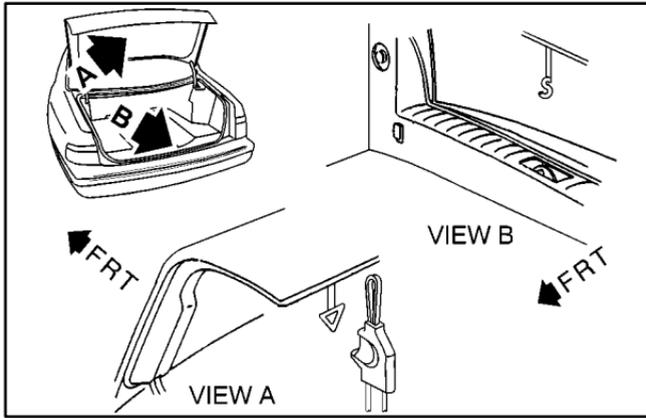
Driving with the trunk lid open can allow dangerous CO (carbon monoxide) gas to come into your vehicle. You can't see or smell CO. It can cause unconsciousness and even death.

CAUTION: (Continued)

CAUTION: (Continued)

If you ever need to drive with your trunk lid open, then:

- Make sure all windows, the rear seat pass-through and sunroof are closed.
 - Turn the fan on your heating and cooling system to its highest speed, with the setting on VENT. This forces fresh outside air into your vehicle.
 - Open all air ducts on the instrument panel.
- Don't use the trunk lid tie down if you are towing a trailer because of the danger of CO.



This feature is used to secure the trunk lid if it will not close completely, such as when carrying large packages in the trunk.

1. Attach the clip end of the tie down to the “D” ring on the trunk lid (see view A).
2. Attach the hook end of the tie down to the striker located at the center of the trunk sill (see view B).
3. Tighten the tie down by pulling the free end of the cord until secure.
4. To remove the tie down, press the clip end release and loosen the cord.

Theft

Vehicle theft is big business, especially in some cities. Although your vehicle has a number of theft-deterrent features, we know that nothing we put on it can make it impossible to steal. However, there are ways you can help.

Key in the Ignition

If you leave your vehicle with the keys inside, it's an easy target for joy riders or professional thieves -- so don't do it.

When you park your vehicle and open the driver's door, you'll hear a chime reminding you to remove your key from the ignition and take it with you. Always do this. Your steering wheel will be locked, and so will your ignition and transaxle. And remember to lock the doors.

Parking at Night

Park in a lighted spot, close all windows and lock your vehicle. Remember to keep your valuables out of sight. Put them in a storage area, or take them with you.

Parking Lots

If you park in a lot where someone will be watching your vehicle, it's best to lock it up and take your keys. But what if you have to leave your ignition key?

- If possible, park in a busy, well lit area.
- Put your valuables in a storage area, like your trunk or glove box. Be sure to close and lock the storage area.
- Close all windows.
- Move the trunk release lockout switch to ON.
- Lock the glove box.
- Lock all the doors except the driver's.
- Then take the door key and remote keyless entry transmitter with you.
- Leave only the valet key.
- Take all other keys and the Remote Keyless Entry transmitter with you.

Theft-Deterrent System

SECURITY

If the ignition is off and any door is open, the SECURITY light will flash, reminding you to activate the system.

The light will also flash if the battery has been disconnected and reconnected. To arm the system, do the following:

1. Open the door.
2. Lock the door using the power door lock or the remote keyless entry transmitter. The SECURITY light should come on and stay on.
3. Close all the doors. The SECURITY light should go off within about 30 seconds.

The horn will sound and the lamps will flash for about 30 seconds when the door or trunk is opened without the key or the remote keyless entry transmitter. The horn also sounds if the locks are damaged.

Remember, the theft-deterrent system won't activate if you lock the doors with a key or use the manual door lock. It activates only if you use a power door lock button or the remote keyless entry transmitter.

To avoid activating the alarm by accident:

- Always unlock a door with a known key or use the remote keyless entry transmitter. (Using a known key or pressing the unlock button on the remote keyless entry transmitter disables the theft-deterrent system.) Unlocking a door any other way, such as using an unknown key, will activate the alarm system.
- The vehicle should be locked with the door key *after* the doors are closed if you don't want to activate the theft-deterrent system.

If you activate the alarm by accident, unlock any door with your key. You can also turn off the alarm by using the unlock button on the remote keyless entry transmitter or by using a known key. The alarm won't stop if you try to unlock a door any other way

Testing the Alarm

1. From inside the vehicle, roll down the window, then get out of the vehicle, keeping the door open.
2. From outside of the vehicle, with the door open, lock the vehicle using the power door lock or the remote keyless entry transmitter and close the door. Wait 30 seconds until the SECURITY light goes off.
3. Reach in and unlock the door using the manual lock and open the door. The horn will sound and the headlamps will flash.

If the alarm does not sound when it should, check to see if the horn works. The horn fuse may be blown. To replace the fuse, see “Fuses and Circuit Breakers” in the Index. If the fuse does not need to be replaced, you may need to have your vehicle serviced.

To reduce the possibility of theft, always activate the theft-deterrent system when leaving your vehicle.

Valet Lockout Switch



The valet lockout switch is located inside the glovebox.

Pushing the VALET lockout switch to ON will disable the use of the power trunk, fuel door and garage door openers. Pushing the switch to OFF again will make these features reusable. Locking the glove box with the key will also help to secure your vehicle.

The remote keyless entry transmitter cannot be used to open the trunk or fuel door if the valet lockout switch is in the ON position. Also, the valet key will not unlock the glovebox or trunk.

PASS-Key® III

Your vehicle is equipped with the PASS-Key III (Personalized Automotive Security System) theft-deterrent system. PASS-Key III is a passive theft-deterrent system. This means you don't have to do anything different to arm or disarm the system. It works when you insert or remove the key from the ignition.

Your PASS-Key III system operates on a radio frequency subject to Federal Communications Commission (FCC) Rules and with Industry Canada.

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

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device.

Changes or modifications to this system by other than an authorized service facility could void authorization to use this equipment.

PASS-Key III uses a radio frequency transponder in the key that matches a decoder in your vehicle.

When the PASS-Key III system senses that someone is using the wrong key, it shuts down the vehicle's starter and fuel systems. The starter will not work and fuel will stop being delivered to the engine. Anyone using a trial-and-error method to start the vehicle will be discouraged because of the high number of electrical key codes.

When trying to start the vehicle if the engine does not start and the SECURITY light comes on, the key may have a damaged transponder. Turn the ignition off and try again.

If the engine does not start, and the key appears to be undamaged, try another ignition key. At this time, you may also want to check the fuse (see "Fuses and Circuit Breakers" in the Index). If the engine still does not start with the other key, your vehicle needs service. If your vehicle does start, the first key may be faulty. See your dealer or a locksmith who can service the PASS-Key III to have a new key made.

It is possible for the PASS-Key III decoder to learn the transponder value of a new or replacement key. Up to ten additional keys may be programmed for the vehicle. This procedure is for learning additional keys only. If all the currently programmed keys are lost or do not operate, you must see your dealer or a locksmith who can service PASS-Key III to have keys made and programmed to the system.

See your dealer or a locksmith who can service PASS-Key III to get a new blank key that is cut exactly as a current black-colored driver's key that operates the system. Do not use a gray-colored valet key for this procedure.

To program the new key:

- Insert the current driver's key (black in color) in the ignition and start the engine. If the engine will not start see your dealer for service.
- After the engine has started, turn the key to OFF, and remove the key.

- Insert the key to be programmed and turn it to ON within ten seconds of removing the previous key.
- The SECURITY light will turn off once the key has been programmed. It may not be apparent that the SECURITY light went on due to how quickly the key is programmed.
- Repeat the Steps 1 through 4 if additional keys are to be programmed.

If you are ever driving and the SECURITY light comes on and stays on, you will be able to start your engine if you turn it off. Your PASS-Key III system, however, is not working properly and must be serviced by your dealer. Your vehicle is not protected by the PASS-Key III system at this time.

If you lose or damage a PASS-Key III key, see your dealer or a locksmith who can service PASS-Key III to have a new key made.

New Vehicle “Break-In”

NOTICE:

Your vehicle doesn't need an elaborate “break-in.” But it will perform better in the long run if you follow these guidelines:

- Don't drive at any one speed -- fast or slow -- for the first 500 miles (805 km). Don't make full-throttle starts.
- Avoid making hard stops for the first 200 miles (322 km) or so. During this time your new brake linings aren't yet broken in. Hard stops with new linings can mean premature wear and earlier replacement. Follow this breaking-in guideline every time you get new brake linings.
- Don't tow a trailer during break-in. See “Towing a Trailer” in the Index for more information.

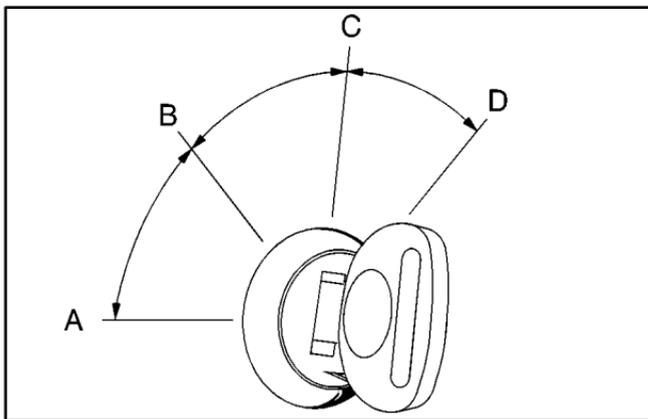
Ignition Positions

If you cannot start your vehicle and you are unable to remove your key from the ignition, see “Shift Lock Release” in the Index.



CAUTION:

Leaving children in a vehicle with the ignition key is dangerous for many reasons. A child or others could be injured or even killed. They could operate power windows or other controls or even make the vehicle move. Don't leave the keys in the vehicle with children.



With the ignition switch, you can turn the switch to four different positions.

OFF (A): Before you put the key in, the ignition will be in OFF. This is the only position in which you can remove the key. This position locks the ignition, steering wheel and transaxle. It's a theft-deterrent feature.

NOTICE:

If your key seems stuck in OFF and you can't turn it, be sure you are using the correct key; if so, is it all the way in? If it is, then turn the steering wheel left and right while you turn the key hard. But turn the key only with your hand. Using a tool to force it could break the key or the ignition switch. If none of this works, then your vehicle needs service.

ACCESSORY (B): This position allows you to use things like the radio and the windshield wipers when the engine is off. This position will allow you to turn off the engine, but still turn the steering wheel. If your vehicle has a column shifter, you will still be able to move the shift lever. Use ACCESSORY if you must have your vehicle in motion while the engine is off (for example, if your vehicle is being pushed or towed).

ON (C): This position is for driving. If your vehicle has a floor (console) shifter and you turn off the engine, the transaxle will lock. If you need to shift the transaxle out of PARK (P), the ignition key has to be in ON.

START (D): This position starts the engine.

Retained Accessory Power (RAP)

The following accessories on your vehicle may be used for up to 10 minutes after the ignition key is turned from ON to OFF:

- Radio
- Power Windows
- Sunroof

Power to these accessories will stop after 10 minutes or if any door is opened. If you want power for another 10 minutes, turn the ignition key to ACCESSORY, then back to OFF. Always leave your key in OFF when using RAP. If you leave your key in any other position than OFF, your battery will discharge prematurely.

Starting Your Engine

Move your shift lever to PARK (P) or NEUTRAL (N). Your engine won't start in any other position -- that's a safety feature. To restart when you're already moving, use NEUTRAL (N) only.

NOTICE:

Don't try to shift to PARK (P) if your vehicle is moving. If you do, you could damage the transaxle. Shift to PARK (P) only when your vehicle is stopped.

Starting Your Northstar V8 Engine

1. Without pushing the accelerator pedal, turn your ignition key to START. When the engine starts, let go of the key. The idle speed will go down as your engine gets warm.

NOTICE:

Holding your key in START for longer than 15 seconds at a time will cause your battery to be drained much sooner. And the excessive heat can damage your starter motor. Wait about 15 seconds between each try to help avoid draining your battery or damaging your starter.

2. If it doesn't start right away, hold your key in START for about three seconds at a time until your engine starts. Wait about 15 seconds between each try to help avoid draining your battery or damaging your starter.

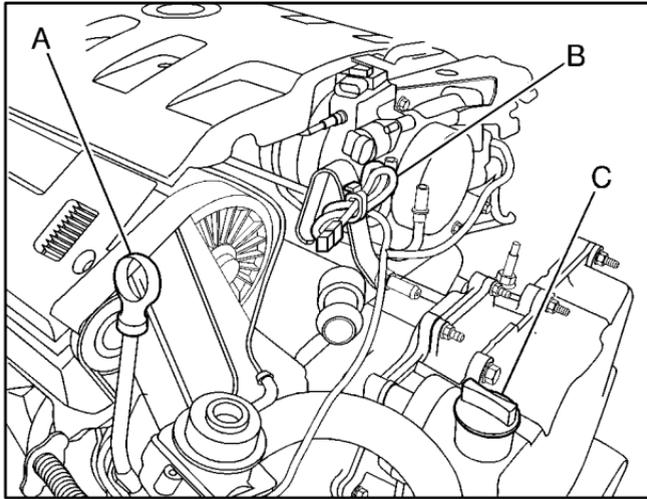
3. If your engine still won't start (or starts but then stops), it could be flooded with too much gasoline. Try pushing your accelerator pedal all the way to the floor and holding it there as you hold the key in START for about three seconds. If the vehicle starts briefly but then stops again, do the same thing.

NOTICE:

Your engine is designed to work with the electronics in your vehicle. If you add electrical parts or accessories, you could change the way the engine operates. Before adding electrical equipment, check with your dealer. If you don't, your engine might not perform properly.

If you ever have to have your vehicle towed, see the part of this manual that tells how to do it without damaging your vehicle. See "Towing Your Vehicle" in the Index.

Engine Coolant Heater (If Equipped)



- A. Engine Oil Dipstick Location
- B. Engine Coolant Heater Cord
- C. Transaxle Dipstick/Fluid Fill Location

In very cold weather, 0°F (-18°C) or colder, the engine coolant heater can help. You'll get easier starting and better fuel economy during engine warm-up. Usually, the coolant heater should be plugged in a minimum of four hours prior to starting your vehicle.

To Use the Engine Coolant Heater

1. Turn off the engine.
2. Open the hood and unwrap the electrical cord.

The electrical cord is located on the driver's side of the engine, behind the transaxle dipstick/fluid fill location (C) and next to the engine.

3. Plug it into a normal, grounded 110-volt AC outlet.

CAUTION:

Plugging the cord into an ungrounded outlet could cause an electrical shock. Also, the wrong kind of extension cord could overheat and cause a fire. You could be seriously injured. Plug the cord into a properly grounded three-prong 110-volt AC outlet. If the cord won't reach, use a heavy-duty three-prong extension cord rated for at least 15 amps.

4. Before starting the engine, be sure to unplug and store the cord as it was before to keep it away from moving engine parts. If you don't, it could be damaged.

How long should you keep the coolant heater plugged in? The answer depends on the outside temperature, the kind of oil you have, and some other things. Instead of trying to list everything here, we ask that you contact your dealer in the area where you'll be parking your vehicle. The dealer can give you the best advice for that particular area.

Automatic Transaxle Operation

The automatic transaxle may have either a shift lever located on the steering column or on the console between the seats.

There are several different positions for the shift lever.



Console Shifter

P R N  3 2 1

88% ENGINE OIL LIFE

Column Shifter (Digital and Analog Cluster similar)

PARK (P): This position locks the front wheels. It's the best position to use when you start the engine because your vehicle can't move easily.

 **CAUTION:**

It is dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Your vehicle can roll.

Don't leave your vehicle when the engine is running unless you have to. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure your vehicle won't move, even when you're on fairly level ground, always set your parking brake and move the shift lever to PARK (P).

See "Shifting Into PARK (P)" in the Index. If you're pulling a trailer, see "Towing a Trailer" in the Index.

Ensure the shift lever is fully in PARK (P) before starting the engine. Your vehicle has an automatic transaxle shift lock control system. You have to fully *apply* your regular brakes *before* you can shift from PARK (P) when the ignition key is in ON. If you cannot shift out of PARK (P), ease pressure on the shift lever -- push the shift lever all the way into PARK (P) as you maintain brake application. Then move the shift lever into the gear you wish. See “Shifting Out of PARK (P)” in the Index.

REVERSE (R): Use this gear to back up.

NOTICE:

Shifting to **REVERSE (R)** while your vehicle is moving forward could damage your transaxle. Shift to **REVERSE (R)** only after your vehicle has stopped.

Also use this gear to rock your vehicle back and forth to get out of snow, ice or sand without damaging your transaxle. See “Stuck in Sand, Mud, Ice or Snow” in the Index for additional information.

NEUTRAL (N): In this position, the engine doesn’t connect with the wheels. To restart when you’re already moving, use **NEUTRAL (N)** only. Also, use **NEUTRAL (N)** when your vehicle is being towed.

CAUTION:

Shifting out of **PARK (P)** or **NEUTRAL (N)** while your engine is “racing” (running at high speed) is dangerous. Unless your foot is firmly on the brake pedal, your vehicle could move very rapidly. You could lose control and hit people or objects. Don’t shift out of **PARK (P)** or **NEUTRAL (N)** while your engine is racing.

NOTICE:

Damage to your transaxle caused by shifting out of PARK (P) or NEUTRAL (N) with the engine racing isn't covered by your warranty.

DRIVE (D): This position is for normal driving. If you need more power for passing, and you're:

- Going less than 35 mph (55 km/h), push the accelerator pedal about halfway down.
- Going about 35 mph (55 km/h) or more, push the accelerator all the way down.

The transaxle will shift down to the next gear and have more power.

NOTICE:

If your vehicle seems to start up rather slowly, or if it doesn't seem to shift gears as you accelerate, something may be wrong with a transaxle system sensor. If you drive very far that way, your vehicle can be damaged. So if this happens, have your vehicle serviced right away. Until then, you can use SECOND (2) when you are driving less than 35 mph (55 km/h) and DRIVE (D) for higher speeds.

THIRD (3): This position is also used for normal driving, however, it offers more power and lower fuel economy than DRIVE (D).

Here are examples for using THIRD (3) instead of DRIVE (D).

- When driving on hilly, winding roads.
- When towing a trailer, so there is less shifting between gears.
- When going down a steep hill.

SECOND (2): This position gives you more power. You can use SECOND (2) on hills. It can help control your speed as you go down steep mountain roads, but then you would also want to use your brakes off and on.

NOTICE:

Don't shift into SECOND (2) unless you are going slower than 65 mph (105 km/h), or you can damage your engine.

FIRST (1): This position gives you even more power than SECOND (2). You can use it on very steep hills, or in deep snow or mud. (If the shift lever is put in FIRST (1), the transaxle won't shift into gear until the vehicle is going slowly enough.)

NOTICE:

If your front wheels can't rotate, don't try to drive. This might happen if you were stuck in very deep sand or mud or were up against a solid object. You could damage your transaxle.

Also, if you stop when going uphill, don't hold your vehicle there with only the accelerator pedal. This could cause overheating and damage the transaxle. Use your brakes to hold your vehicle in position on a hill.

Performance Shifting (DTS Only)

When your vehicle detects a change in driving conditions, it will automatically initiate the appropriate performance shift mode. When this occurs the gear display on the instrument panel cluster will change to indicate that the transmission has shifted to a different gear. For example, the gear display on the cluster may indicate D, 3, 2, or 1 even though the gearshift is still in DRIVE (D). Once the performance shift mode ends, the gear display on the cluster will return to normal.

Parking Brake



Hold the regular brake pedal down with your right foot and push the parking brake pedal down with your left foot to set the parking brake.

If the ignition is on, the BRAKE indicator light should come on. If it doesn't, you need to have your vehicle serviced.

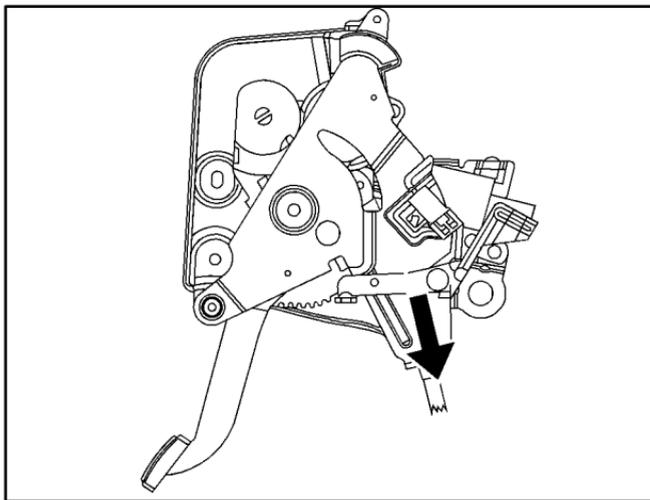
When you move out of PARK (P) or NEUTRAL (N) and the engine is running, the parking brake should release. If the parking brake has not been fully released and you try to drive off with the parking brake on, the BRAKE indicator light will come on and stay on.

If the brake doesn't fully release, you can manually release the lever. Before attempting to release the lever however, be sure to carefully read the following paragraphs.

CAUTION:

Always shift to PARK (P) before pulling the manual release lever. If your hand or arm is in the way of the pedal you could be hurt. The pedal springs back quickly. Keep your hand and arm away when you use the manual release lever.

Before releasing the manual parking brake, be sure to put the vehicle in PARK (P) and turn the ignition to OFF.



Reach under the driver's side of the instrument panel and pull on the manual release lever, which is located above the parking brake pedal. If the parking brake does not release, you should either drive to the nearest service station or have your vehicle towed.

NOTICE:

Driving with the parking brake on can cause your rear brakes to overheat. You may have to replace them and you could also damage other parts of your vehicle.

If you are towing a trailer and are parking on a hill, see "Towing a Trailer" in the Index. This section shows what to do first to keep the trailer from moving. For more information, see "Brake Indicator Light" in the Index.

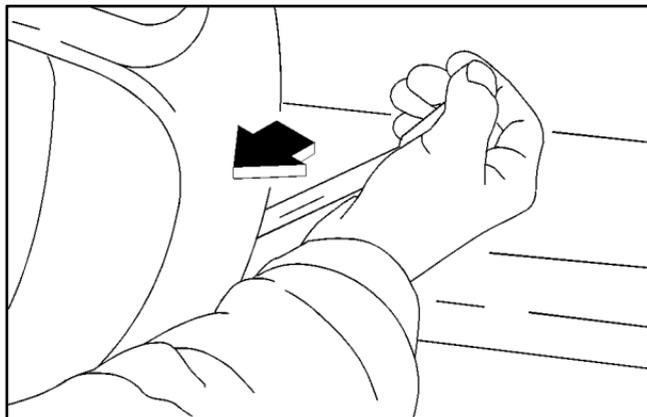
Shifting Into PARK (P)

CAUTION:

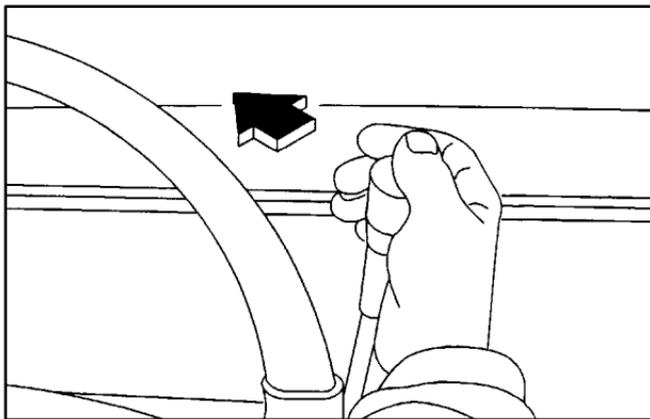
It can be dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Your vehicle can roll. If you have left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure your vehicle won't move, even when you're on fairly level ground, use the steps that follow. If you're pulling a trailer, see "Towing a Trailer" in the Index.

Steering Column Shift Lever (If Equipped)

1. Hold the brake pedal down with your right foot.
2. Move the shift lever into PARK (P) like this:



- Pull the lever toward you.



- Move the lever up as far as it will go.
3. With your right foot still holding the brake pedal down, set the parking brake.
 4. Turn the ignition key to OFF.
 5. Remove the key and take it with you. If you can leave your vehicle with the ignition key in your hand, your vehicle is in PARK (P).

Console Shift Lever (If Equipped)

1. Hold the brake pedal down with your right foot.



2. Move the shift lever into PARK (P).
3. With your right foot still holding the brake pedal down, set the parking brake.
4. Turn the ignition key to OFF.
5. Remove the key and take it with you. If you can leave your vehicle with the ignition key in your hand, your vehicle is in PARK (P).

Leaving Your Vehicle With the Engine Running

CAUTION:

It can be dangerous to leave your vehicle with the engine running. Your vehicle could move suddenly if the shift lever is not fully in PARK (P) with the parking brake firmly set. And, if you leave the vehicle with the engine running, it could overheat and even catch fire. You or others could be injured. Don't leave your vehicle with the engine running unless you have to.

If you have to leave your vehicle with the engine running, be sure your vehicle is in PARK (P) and your parking brake is firmly set before you leave it. After you've moved the shift lever into PARK (P), hold the regular brake pedal down. Then, see if you can move the shift lever away from PARK (P) without first pulling it toward you. If you can, it means that the shift lever wasn't fully locked into PARK (P).

Torque Lock

If you are parking on a hill and you don't shift your transaxle into PARK (P) properly, the weight of the vehicle may put too much force on the parking pawl in the transaxle. You may find it difficult to pull the shift lever out of PARK (P). This is called "torque lock." To prevent torque lock, set the parking brake and then shift into PARK (P) properly before you leave the driver's seat. To find out how, see "Shifting Into PARK (P)" in the Index.

If torque lock does occur, you may need to have another vehicle push yours a little uphill to take some of the pressure from the parking pawl in the transaxle, so you can pull the shift lever out of PARK (P).

Shifting Out of PARK (P)

Your vehicle has an automatic transaxle shift lock control system. You have to fully *apply* your regular brakes *before* you can shift from PARK (P) when the ignition is in ON. See “Automatic Transaxle” in the Index.

If you cannot shift out of PARK (P), ease pressure on the shift lever -- push the shift lever all the way into PARK (P) as you maintain brake application. Then move the shift lever into the gear you want. If you ever hold the brake pedal down, but still can't shift out of PARK (P) and your vehicle has a column shifter, try this:

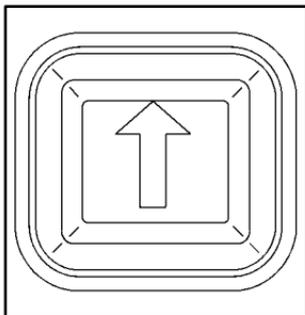
1. Turn the ignition key to ACCESSORY.
2. Apply and hold the brake until the end of Step 4.
3. Shift to NEUTRAL (N).
4. Start the vehicle and then shift to the drive gear you want.
5. Have the vehicle fixed as soon as you can.

Shift Lock Release (Console Shifter Only)

This vehicle is equipped with an electric shift lock release system. The shift lock release is designed to:

- Prevent ignition key removal unless the shift lever is in PARK (P), and
- Prevent movement of the shift lever out of PARK (P) unless the ignition is in a position other than OFF. The shift lock release is always functional except in the case of a dead battery or low voltage (less than 9 V) battery.

If your vehicle has a dead battery or a battery with low voltage, there is an override access hole that will allow you to override the shift lock release.

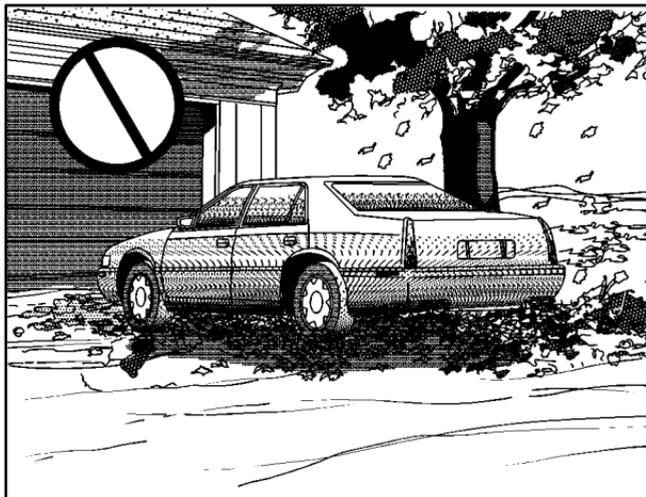


The console shift lock release is located on the front of the center console.

To access the shift lock release hole:

1. Verify that the shift lever is in PARK (P).
2. Locate the shift lock release on the front of the center console.
3. Remove the shift lock release hole cover.
4. Insert a small diameter screwdriver into the shift lock release hole, press in and hold.
5. Turn the ignition key to OFF.
6. Remove the screwdriver from the hole.
7. Remove the ignition key from the ignition switch.
8. Put the shift lock release hole cover back on.

Parking Over Things That Burn



CAUTION:

Things that can burn could touch hot exhaust parts under your vehicle and ignite. Don't park over papers, leaves, dry grass or other things that can burn.

Engine Exhaust

CAUTION:

Engine exhaust can kill. It contains the gas carbon monoxide (CO), which you can't see or smell. It can cause unconsciousness and death.

You might have exhaust coming in if:

- Your exhaust system sounds strange or different.
- Your vehicle gets rusty underneath.
- Your vehicle was damaged in a collision.
- Your vehicle was damaged when driving over high points on the road or over road debris.
- Repairs weren't done correctly.
- Your vehicle or exhaust system had been modified improperly.

If you ever suspect exhaust is coming into your vehicle:

- Drive it only with all the windows down to blow out any CO; and
- Have your vehicle fixed immediately.

Running Your Engine While You're Parked

It's better not to park with the engine running. But if you ever have to, here are some things to know.

CAUTION:

Idling the engine with the climate control system off could allow dangerous exhaust into your vehicle (see the earlier Caution under "Engine Exhaust").

Also, idling in a closed-in place can let deadly carbon monoxide (CO) into your vehicle even if the fan switch is at the highest setting. One place this can happen is a garage. Exhaust -- with CO -- can come in easily. NEVER park in a garage with the engine running.

Another closed-in place can be a blizzard. (See "Blizzard" in the Index.)

CAUTION:

It can be dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Your vehicle can roll. Don't leave your vehicle when the engine is running unless you have to. If you've left the engine running, the vehicle can move suddenly. You or others could be injured. To be sure your vehicle won't move, even when you're on fairly level ground, always set your parking brake after you move the shift lever to PARK (P).

Follow the proper steps to be sure your vehicle won't move. See "Shifting Into PARK (P)" in the Index.

If you are parking on a hill and if you're pulling a trailer, also see "Towing a Trailer" in the Index.

Windows

Power Windows



The power window controls are located on the armrest near each window. Press the up or down arrows on the controls to raise or lower windows.

The second rearward position on the window control operates the express-down window feature.

Express-Down Window

All power windows have this feature. Pressing the control rearward to the second position then releasing it, will lower a window completely. If you want to stop the window as it is lowering, press the control forward briefly. Press the control forward again to raise the window.

The first rearward position on the power window control operates the driver's power window in the non-express mode.

Rear Window Lockout



Pressing this button down will disable the rear window controls and cause the button to light, indicating that the feature is in use. To restore power to the rear windows, press the button again.

Horn

The horn can be sounded by pressing on the center of the steering wheel pad.

Tilt Wheel and Telescopic Column



Tilt steering allows you to adjust the steering wheel before you drive. Raising the steering wheel to the highest level gives your legs more room when you enter and exit the vehicle.

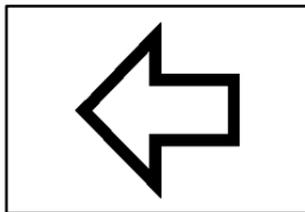
This knob is located on the outboard side of the steering column. Push up or down on the knob to adjust the tilt of steering wheel. Then, push back or pull forward on the knob, to adjust the height of the steering column. Release the knob to lock the wheel and column into place.

It is also possible to move the steering column to a different position by momentarily pressing the adjustment knob.

Turn Signal/Multifunction Lever

Turn and Lane Change Signals

To signal a turn, move the lever all the way up or down. The lever returns automatically when the turn is complete.



An arrow on the instrument panel will flash in the direction of the turn or lane change.

Raise or lower the lever until the arrow starts to flash to signal a lane change. Hold it there until the lane change is complete. The lever returns when it's released.

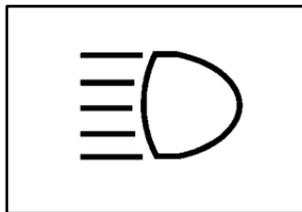
If the turn signal is left on, a warning chime will sound and the Driver Information Center (DIC) will display **TURN SIGNAL ON** (after driving about a mile) to remind you to turn it off.

Arrows that flash rapidly when signaling for a turn or lane change may be caused by a burned out signal bulb. Other drivers won't see the turn signal.

Replace burned-out bulbs to help avoid possible accidents. Check the fuse (see "Fuses and Circuit Breakers" in the Index) and for burned-out bulbs if the arrow fails to work when signaling a turn.

Headlamp High/Low Beam

Push forward for high beam to change the headlamps from low beam to high. Pull the lever back and then release it to change from high beam to low.



This light located on the instrument panel will be on, indicating high-beam usage.

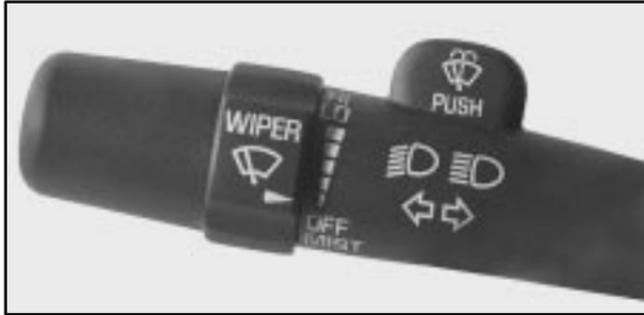
Flash-To-Pass

This lets you use the high beam headlamps to signal the driver in front of you that you want to pass.

Pull and hold the turn signal lever toward you to use. When you do:

- If the headlamps are either off or in the DRL mode, the high beam headlamps will turn on. They'll stay on as long as you hold the lever there. Release the lever to turn them off.
- If the headlamps are on highbeam, they will switch to low beam. To return to high beam, push the lever away from you.

Windshield Wipers



WIPER: Turn the band on the turn signal lever to control the wipers.

MIST: Turn the band toward you to “mist” and then release it for a single wiping cycle. For more cycles, hold the band on MIST longer.

LO or HI: Turn the band away from you to either LO (low speed) or to HI (high speed), depending on the wiper speed you want.

DELAY: You can set the wiper speed for a long or short delay between wipes with this setting. Turn the band to one of the DELAY positions. The closer you move it to LO, the shorter the delay.

OFF: Turn the band to OFF to turn off the wipers.

Be sure to clear ice and snow from the wiper blades before using them. If they’re frozen to the windshield, carefully loosen or thaw them. If the blades do become damaged, get new blades or blade inserts.

Heavy snow or ice can overload the wiper motor. A circuit breaker will stop the motor until it cools. Clear away snow or ice to prevent an overload.

Rainsense™ Wipers (If Equipped)

This moisture sensor is mounted on the passenger's interior side of the windshield behind the rearview mirror and is used to automatically operate the wipers by monitoring the amount of moisture that is on the windshield.

The Rainsense system can be activated by turning the wiper stalk to one of the five sensitivity levels indicated on the stalk. The position closest to OFF is the lowest sensitivity setting. This allows more water to collect on the windshield between wipes. Turning the stalk away from you to the other settings increases the sensitivity of the system and frequency of wipes. A single wipe will occur each time you turn the wiper stalk to a higher sensitivity level. An initial wipe occurs when you turn the ignition on as a reminder that Rainsense is active.

The Rainsense wipers operate in a delay mode as well as a continuous low or high speed depending on the amount of moisture and the sensitivity level. The MIST and "wash" cycles operate as normal and are not affected by the Rainsense function.

NOTICE:

The wipers must be turned off when going through a car wash to avoid damage.

It is important to note that the Rainsense wiping feature can be overridden at any time by manually changing the wiper control to LO or HI speed.

If you ever need to replace the windshield, make sure it is Rainsense compatible.

Windshield Washer

CAUTION:

In freezing weather, don't use your washer until the windshield is warmed. Otherwise the washer fluid can form ice on the windshield, blocking your vision.

At the top of the turn signal/multifunction lever there is a paddle with the word PUSH on it. To spray washer fluid on the windshield, press and release this paddle. The wipers will clear the windshield and either stop or return to your preset speed. For more washer cycles, press and hold the paddle.

LOW WASHER FLUID will be displayed on the Driver Information Center (DIC) when the washer fluid reaches a low level.

Cruise Control



The controls to operate cruise control are located on the steering wheel.

With cruise control, you can maintain a speed of approximately 25 mph (40 km/h) or more without keeping your foot on the accelerator. This is helpful on long trips. Cruise control does not work at speeds below about 25 mph (40 km/h).

When you apply your brakes, the cruise control shuts off.

CAUTION:

- Cruise control can be dangerous where you can't drive safely at a steady speed. So, don't use your cruise control on winding roads or in heavy traffic.
- Cruise control can be dangerous on slippery roads. On such roads, fast changes in tire traction can cause needless wheel spinning, and you could lose control. Don't use cruise control on slippery roads.

If your vehicle is in cruise control when the optional traction control system begins to limit wheel spin, the cruise control will automatically disengage. (See "Traction Control System" in the Index.) When road conditions allow you to safely use it again, you may turn the cruise control back on.

Setting Cruise Control

CAUTION:

If you leave your cruise control switch on when you're not using cruise, you might hit a button and go into cruise when you don't want to. You could be startled and even lose control. Keep the cruise control switch off until you want to use cruise control.

1. Press the CRUISE ON/OFF button to turn cruise control on. (The button is located on the bottom left of the steering wheel.) An indicator light will come on to show that the cruise control is on.
2. Get up to the speed you want.
3. Press the SET/CST (coast) button. (The button is located on the bottom right of the steering wheel.) The CRUISE ENGAGED message will display on the Driver Information Center (DIC).
4. Remove your foot from the accelerator pedal.

Resuming a Set Speed

Suppose you set your cruise control at a desired speed and then you apply the brake. This, of course, shuts off the cruise control. But you don't need to reset it.

Once the vehicle is traveling approximately 25 mph (40 km/h) or more, you can press RES/ACC (resume/accelerate) button to return to your desired preset speed. Also note that the DIC will display the CRUISE ENGAGED message again.

The vehicle will return to and stay at your preset speed. If you press and hold the RES/ACC button briefly, the vehicle speed will increase until you release the button or apply the brake. Again, unless you want to go faster, do not press and hold the RES/ACC button.

Increasing Speed While Using Cruise Control

There are two ways to go to a higher speed:

- Use the accelerator pedal to get to the higher speed. Press the SET/CST button, then release the button and the accelerator pedal. You will now cruise at the higher speed.

- Press the RES/ACC button. Hold it there until you get up to the speed that you want, and then release the button. To increase your speed in very small amounts, briefly press the RES/ACC button and then release it. Each time you do this, your vehicle will speed up approximately 1 mph (1.6 km/h) faster.

The accelerate feature will only work after you have set the cruise control speed by pressing the SET/CST button.

Reducing Speed While Using Cruise Control

There are two ways to reduce your speed while using cruise control:

- Press the SET/CST button until you reach the lower speed you want, then release it. A CRUISE ENGAGED message will then be displayed in the DIC.
- To slow down in very small amounts, push the SET/CST button briefly. Each time you do this, the vehicle will slow down approximately 1 mph (1.6 km/h).

Passing Another Vehicle While Using Cruise Control

Use the accelerator pedal to increase your speed. When you take your foot off the pedal, your vehicle will slow down to the cruise control speed you set earlier.

Using Cruise Control on Hills

How well your cruise control will work on hills depends upon your speed, load and the steepness of the hills. When going up steep hills, you may have to step on the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to keep your speed down. Applying the brake or shifting into a lower gear will take you out of cruise control. If you need to apply the brake or shift to a lower gear due to the grade of the downhill slope, you may not want to attempt to use your cruise control feature.

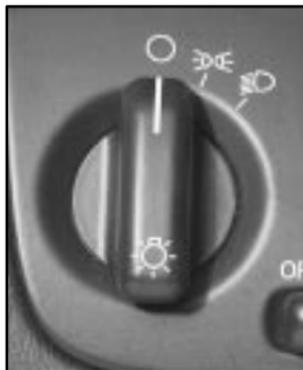
Ending Cruise Control

To turn off the cruise control, step lightly on the brake pedal, or press the CRUISE ON/OFF button on the steering wheel.

Erasing Speed Memory

When you turn off the cruise control or the ignition, your cruise control set speed memory is erased.

Exterior Lamps



This control on the left side of the instrument panel controls these lamp systems:

- Headlamps
- Taillamps
- Parking Lamps
- Sidemarkers Lamps
- License Plate Lamp

Parking Lamps

Turn the lamp control knob clockwise to the first stop, to turn on the parking, taillamps, sidemarker lamps. If it is night, the instrument panel switch backlighting will also illuminate. Turn the control knob counterclockwise all the way back to turn the lamps and lights off.

Headlamps

Turn the control knob clockwise all the way to turn on the parklamps and headlamps. Turn the control knob counterclockwise to turn the lamps off.

Wiper-Activated Headlamps

This feature activates the headlamps and parking lamps after the windshield wipers have been in use for approximately six seconds.

In order to operate the wiper-activated headlamps, the Twilight Sentinel[®] must be turned on; the ignition key in the ON position and the windshield wipers on, or in a delay setting. If the windshield wipers are active while the ignition key is in ON, but the Twilight Sentinel switch is off, a “Headlamps Suggested” message will be displayed on the Driver Information Center. This message informs the driver that turning on the exterior lamps is recommended.

This feature lights the way in poor weather and it also makes your vehicle more visible to other drivers. If the wiper-activated headlamps are on and the ignition switch, Twilight Sentinel, or the wipers are turned off, the wiper-activated headlamps will immediately turn off.

Lamps on Reminder

If the manual headlamp control is left on and a door is opened, a warning chime will sound. An exception is when the Twilight Sentinel function is active.

Daytime Running Lamps

Daytime Running Lamps (DRL) can make it easier for others to see the front of your vehicle during the day. DRL can be helpful in many different driving conditions, but they can be especially helpful in the short periods after dawn and before sunset.

The DRL system will make the high-beam headlamps come on at reduced intensity when:

- it is still daylight and the ignition is on,
- the headlamp switch is off and
- the transaxle is not in PARK (P).

When DRL are on, only your high-beam headlamps (at reduced intensity) will be on. No other exterior lamps such as the parking lamps, taillamps, etc. will be on when the DRL are being used. Your instrument panel won't be lit up either.

When the Twilight Sentinel control is on and it's dark enough outside, the high-beam headlamps (at reduced intensity) will turn off and automatic high-beam headlamp operation will occur. When the Twilight Sentinel switch is on and it's bright enough outside, the automatic lamps will go off, and the high-beam headlamps at reduced intensity will take over.

If it's dark enough outside and the Twilight Sentinel control is off, a HEADLAMPS SUGGESTED message will display on the Driver Information Center (DIC). This message informs the driver that turning on the exterior lamps is recommended even though the DRL are still illuminated (it's become dark enough outside to require the headlamps and/or other exterior lamps). Turning on the Twilight Sentinel, the headlamp switch or the fog lamp switch will remove the HEADLAMPS SUGGESTED message.

To idle your vehicle at night with the DRL off, turn off the Twilight Sentinel and shift the transaxle into PARK (P). Placing your vehicle in PARK (P) disables the DRL. The DRL will stay off until you shift out of PARK (P).

To drive your vehicle at night with the DRL off, turn off the Twilight Sentinel and manually turn on the parking lamps.

As with any vehicle, you should turn on the regular headlamp system when you need it.

Fog Lamps (If Equipped)



Use the fog lamps for better vision in foggy or misty conditions. When you press the fog lamp button, a fog lamp symbol located in the instrument panel will come on to indicate that the fog lamps and the parking lamps are on.

Press the button again to turn them off.

If you turn on the high-beam headlamps, the fog lamps will turn off. They'll turn back on again when you switch to low-beam headlamps.

When the Twilight Sentinel is on and the fog lamp switch is activated, the fog lamps will remain on as well as the headlamps and parking lamps.

Cornering Lamps

The cornering lamps come on when the headlamps or parking lamps are on and you signal a turn with the multifunction lever. They provide more light for cornering.

Twilight Sentinel[®]



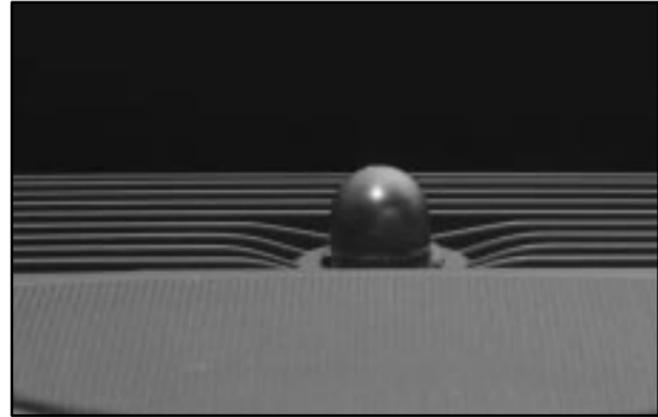
This control is next to the headlamp knob. It automatically switches the lamps on and off by sensing how dark it is outside.

To operate the Twilight Sentinel, leave the lamp knob off and move the TWILIGHT control to any position but OFF.

If you move the control all the way to the right, the lamps will remain on for approximately three minutes after the ignition has been turned to OFF. If you move the control so it is just on, the lamps will go off quickly when you turn the ignition switch out of OFF. You can adjust the delay time from only a few seconds to about three minutes.

If it's dark enough outside and the Twilight Sentinel control is off, a HEADLAMPS SUGGESTED message will display on the Driver Information Center (DIC). This message informs the driver that turning on the exterior lamps is recommended (it's become dark enough outside to require the headlamps and/or other exterior lamps). Turning on the Twilight Sentinel, the headlamp switch or the fog lamp switch will remove the HEADLAMPS SUGGESTED message.

Light Sensor



The light sensor for the DRL and the Twilight Sentinel is located in the center of the front defogger grille. If you cover the sensor, it will read “dark” and the lamps will come on.

Exterior Lighting Battery Saver

If the headlamp or manual parking lamp control has been left on, the exterior lamps will turn off approximately 10 minutes after the ignition is turned to OFF. This protects draining the battery in case you have accidentally left the headlamps or parking lamps on. If you need to purposely leave the lamps on for more than 10 minutes with the ignition in OFF or ACCESSORY, turn the manual control knob off and then back on. To delay the lamps from turning off, see “Twilight Sentinel” in the Index.

If the headlamp switch is turned on after the ignition key is moved to either OFF or ACCESSORY, the lamps will not time out.

Interior Lamps

Instrument Panel

Intensity/Brightness Control

The displays automatically dim when it becomes dark outside and your lights are on. The displays automatically brighten when it becomes light outside. Backlighting will only remain active as long as the parking lamps are on and it is dark outside.

Courtesy Lamps

The courtesy lamps are located on the ceiling above the rear seat. These lamps come on with the control lamp knob or when any door is opened and it is dark outside. Puddle lamps are located on the bottom of the front and rear door trim.

Illuminated Entry

The illuminated entry system turns on the courtesy lamps and the backlighting to the door switches and to the lamp control knob when a door is opened or if you press a remote keyless entry transmitter unlock button. If activated due to the transmitter, the lighting will remain active for about 40 seconds. Since the illuminated entry system uses the light sensor, it must be dark outside in order for the courtesy lamps to turn on. The courtesy lamps turn off approximately 25 seconds after the last door is closed. They will dim to off if the ignition key is placed in ON, or immediately deactivate if the power locks are activated.

Parade Dimming

This feature prohibits dimming of the digital displays and backlighting during daylight hours when the key is in the ignition and the headlamps are on. This feature operates with the light sensor for the Twilight Sentinel and is fully automatic. When the light sensor reads darkness outside and the park lamps are active, the digital displays can be adjusted by turning the lamp control knob counterclockwise to dim and clockwise to brighten lighting.

Reading Lamps

The reading lamps are located on the overhead console on the ceiling and in the rear door opening. These lamps come on automatically when any door is opened and it is dark outside. For manual operation, press the button to turn them on. Press it again to turn them off.

If the reading lamps are left on, they automatically shut off 10 minutes after the ignition has been turned off.

Map Lamps



These lamps are located in the front overhead console. Press the button to turn them on. Press it again to turn them off.

Battery Load Management

The battery load management feature is designed to monitor the vehicle electrical load and determine when the battery is in a heavy discharge condition. During times of high electrical loading, the engine may idle at a higher RPM setting than normal to make sure the battery charges. High electrical loads may occur when several of the following are on: headlamps, high beams, fog lamps, rear window defogger, high blower fan, heated seats and engine cooling fans.

Inadvertent Power Battery Saver

This feature is designed to protect your vehicle's battery against drainage from the interior lamps, trunk lamp, glove box lamp, cigarette lighters or the garage door opener. When the ignition is turned off, the power to these features will automatically turn off after 10 minutes (three minutes if a new car has 15 miles (24 km) or less). Power will be restored for an additional 10 minutes if any door is opened, the trunk is opened or the courtesy lamp switch is turned on.

Mirrors

Electrochromic Day/Night Rearview Mirror with Compass (If Equipped)



Your vehicle may have an electrochromic inside rearview mirror with a compass.

By pressing the MIRROR side of the button located at the bottom of the mirror, the mirror automatically darkens to reduce the glare from headlamps behind you.

The mirror also includes an eight-point compass display in the upper right corner of the mirror face. When on, the compass automatically calibrates as the vehicle is driven.

When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as that may cause the liquid cleaner to enter the mirror housing.

Cleaning Photocells

Use a cotton swab and glass cleaner to clean the photocells when necessary.

Mirror Operation



The right side of the button, located at the bottom of the mirror, turns the electrochromic mirror on and off. To turn on the automatic dimming feature, press **MIRROR**. To turn off automatic dimming, press **MIRROR** again. The green indicator light will be illuminated when this feature is active.

Time Delay

The automatic mirror has a time delay feature which prevents unnecessary changing from night back to the day position. This delay prevents rapid changing of the mirror as you drive under lights and through traffic.

Compass Operation

Press **COMPASS** once to turn the compass on or off.

When the ignition and the compass feature are on, the compass will show two character boxes for approximately two seconds. After two seconds, the mirror will display the compass heading.

Compass Calibration

If after two seconds the display does not show a compass heading (“N” for North, for example), there may be a strong magnetic field with the compass. Such interference may be caused by a magnetic antenna mount, magnetic note pad holder or a similar magnetic item. If the letter “C” should ever appear in the compass window, the mirror needs calibration.

The mirror can be calibrated in one of two ways:

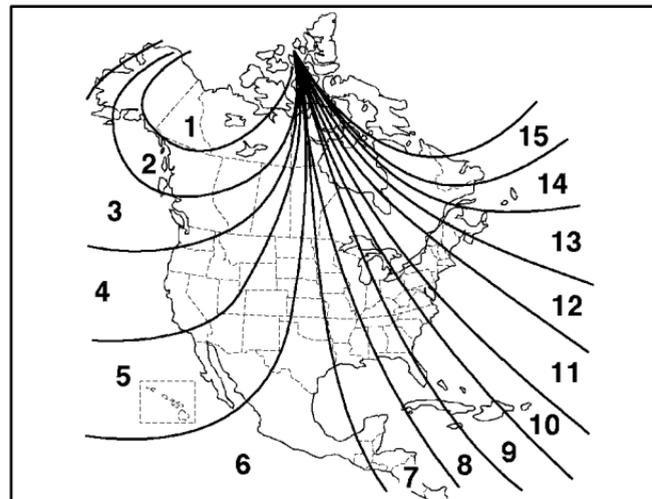
- Drive the vehicle in circles at 5 mph (8 km/h) or less until the display reads a direction, or
- Drive the vehicle on your everyday routine.

Compass Variance

The mirror is set in zone eight upon leaving the factory. It will be necessary to adjust the compass to compensate for compass variance if you live outside zone eight. Under certain circumstances, as during a long distance cross-country trip, it will be necessary to adjust for compass variance. Compass variance is the difference between earth's magnetic north and true geographic north. If not adjusted to account for compass variance, your compass could give false readings.

To adjust compass variance.

1. Use the COMPASS button located at the bottom of the mirror. Press and hold COMPASS until a zone number appears in the display.
2. Find your current location and variance zone number on the following zone map.



3. Press the COMPASS button on the bottom of the mirror until the new zone number appears in the display. After you stop pressing the button, the display will show a "C" and will need recalibration

Power Remote Control Mirror (Heated)



The control on the driver's door armrest operates both outside rearview mirrors. Press (R) on the control switch to choose the right mirror or (L) to choose the left mirror. The center switch position is for off and will not move the mirrors if touched.

To adjust the mirror, push the control pad in the direction you want the mirror to go. Adjust each mirror so you can see the side of your vehicle and the area behind your vehicle.

When you operate the rear window defogger, it also warms both outside mirrors to help clear them of fog or ice.

The mirrors can also be programmed for personalization if you have the optional memory package. For more information, see "Memory Seat and Mirrors" in the Index.

Driver's Outside Auto-Dimming Rearview Mirror

Only the driver's side outside mirror will adjust for the glare of headlamps behind you. This feature is controlled by the on and off settings on the electrochromic mirror. See "Electrochromic Day/Night Rearview Mirror with Compass" in the Index.

Curb View Assist Mirror (If Equipped)

If your vehicle is equipped with memory mirrors, it will also be capable of performing the curb view assist mirror feature. This feature will cause the passenger's mirror to tilt to a preselected position when the vehicle is in REVERSE (R). This feature may be useful in allowing you to view the curb when you are parallel parking.

When the vehicle is shifted out of REVERSE (R) and a five-second delay has occurred, the passenger's mirror will return to its original position.

If further adjustment is needed after the mirror is tilted, the mirror switch may be used.

This feature can be enabled/disabled through the Driver Information Center.

Convex Outside Mirror

Your passenger's side mirror is convex. A convex mirror's surface is curved so you can see more from the driver's seat.



CAUTION:

A convex mirror can make things (like other vehicles) look farther away than they really are. If you cut too sharply into the right lane, you could hit a vehicle on your right. Check your inside mirror or glance over your shoulder before changing lanes.

Storage Compartments

Glove Box

The glove box is located in front of the passenger's seat. To lock the glove box door, insert the oval key into the lock cylinder and turn it clockwise. Turn the key counterclockwise to unlock the door.

Front Storage Area (If Equipped)

The front storage area comes with a coinholder, a storage compartment for CDs or tapes, an optional cellular telephone and a dual cupholder.

Map Pocket

The map/storage pockets are located on each front and rear door trim as well as on the back of both front seatbacks.

Center Instrument Panel Compartment

For vehicles without the center storage console, the storage compartment is located in the center of the instrument panel below the radio. Pull the door out to reveal the accessory power outlet and storage compartment. To clean the storage compartment, lift out while pulling on the sides.

Center Console Storage (If Equipped)

The center console includes a storage tray, storage compartment for CDs or tapes, a dual cupholder that unfolds, a coinholder, an optional cellular telephone and an armrest. The cupholder can be opened by pressing on the surface panel located in front of the armrest and unfolding it.

Full Floor Console Storage (If Equipped)

The full floor console has an upper and lower storage area. The lower has two removable that can hold tapes and/or CDs. There is also a removable coinholder that attaches to the side of one of the bins. The upper storage area is available for the optional cellular telephone. A dual cupholder is located in front of the console. Open and close by pressing on the cupholder. To open the console, pull up on either lever to open the upper or lower storage area.

Rear Storage Center Armrest

Your vehicle is equipped with a rear seat armrest which includes an open storage compartment and a dual cupholder. To open, release the latch at the front edge.

Rear Storage Door Trim Armrest (If Equipped)

Your vehicle may be equipped with a rear storage door trim armrest. The storage area is located in the rear door trim under the switch plate lid and includes an accessory power outlet.

Center Flex Storage Unit (If Equipped)

Your vehicle may be equipped with a center flex storage unit that includes a front center seat with a lap belt and an underseat storage compartment. The center seatback can be used as a fold down armrest with extra space for CDs or tapes. An optional cellular telephone is located in the underseat storage compartment. Cupholders are also located at the front edge of the storage unit.

Convenience Net

The convenience net is located inside the back wall of the trunk. Put small loads, like grocery bags, behind the net. It can help keep them from falling over during sharp turns or quick starts and stops.

The net is not for larger, heavier loads. Store them in the trunk as far forward as you can. When not using the net, hook the net to the tabs securing it to the sill plate.

Ashtrays and Cigarette Lighter

NOTICE:

Don't put papers or other flammable items into your ashtrays. Hot cigarettes or other smoking materials could ignite them, causing a damaging fire.

Front Ashtray

With the full center console, the ashtray is located below the climate control system. To open, push down on the cover. To clean the ashtray, lift it out by gripping the sides.

For vehicles without the center console, pull the tray out to reveal the ashtray. The tray is located beneath the radio. To clean this ashtray, lift out by pulling on the snuffer.

Rear Ashtray (Option)

To use the side rear ashtray located on the armrest, lift the lid.

Cigarette Lighter (Option)

The cigarette lighter is located near the ashtray. Press it all the way in and release. It will pop back by itself when it's ready to light. You may also have a lighter located at the rear seat air outlet.

If you have cigarette lighters in your vehicle, they can be used to provide electrical power to accessories. See "Accessory Power Outlets" in the Index.

NOTICE:

Don't hold a cigarette lighter in with your hand while it is heating. If you do, it won't be able to back away from the heating element when it's ready. That can make it overheat, damaging the lighter and the heating element.

Sun Visors

Swing down the primary visor to block out glare. It can also be detached from the center mount and moved to the side while the auxiliary sunshade remains to block the glare from the front. The visors also have side-to-side slide capability.

The driver's sunshade is also equipped with a storage flap.

Lighted Visor Vanity Mirror

Pull the sunshade down and lift the cover. Move the slide switch up or down to brighten or dim the lamp.

Lighted Rear Vanity Mirror (If Equipped)

Pull the vanity cover down to see the mirror. Move the slide switch up or down to brighten or dim the lamp.

Coat Hooks

Your vehicle is equipped with flip-out coat hooks. They are located above the rear doors, behind the rear assist handles. Return to the stowed position when not in use.

Rear Power Sunshade (If Equipped)

The rear power sunshade helps to reduce the amount of heat and light entering the rear window.

The rear power sunshade is located in the rear shelf. To raise the power sunshade, press and release the REAR SHADE switch located on the front overhead console.

To close the power sunshade, press and release the REAR SHADE switch again. The rear power sunshade switch only works when the ignition is on or when the Retained Accessory Power is active. See “Retained Accessory Power” in the Index.

Also, never store objects on the rear shelf because they may get caught in the sunshade or be tossed about in your vehicle.

Manual Rear Side Door Sunshade (If Equipped)

To use the manual rear side door sunshades, lower the side windows and hook the top edge of the retractable sunshades over the edge of the windows and raise the windows. To remove the shades, lower the windows and the hooks will disengage automatically.

Cellular Telephone (Option)

Your vehicle has been prewired for dealer installation of the Cadillac Communiport™ integrated portable cellular telephone system. The system has steering wheel telephone controls and information output through the Driver Information Center (DIC). Voice activation with remote record and hands-free operation are standard features. For more information, contact your dealer. A user's guide is provided with the telephone.

Accessory Power Outlets (If Equipped)

Your vehicle may be equipped with accessory power outlets that can be used to power additional devices designed to operate with vehicle electrical systems. The accessory power outlets are located in the center storage compartment of the instrument panel and under each storage lid of the rear door armrests. When the ignition is on, or up to 10 minutes after the ignition is turned off, you can plug in accessories that require electrical power. Power to the outlets will shut off 10 minutes after the ignition is turned off to help prevent the battery from draining. See "Inadvertant Power Battery Saver" in the Index. Power supply to the accessory power outlets or cigarette lighters can be changed from 10 minutes to full time by changing some fuses. See your dealer for assistance.

Leaving an accessory on for an extended period of time (i.e. airport stay or storage) or if a fuse is in the wrong place may drain the vehicle's battery.

OnStar® System (If Equipped)

OnStar is a vehicle communications service. The following services are available through subscription with OnStar and are available 24 hours a day:

Emergency Services

- Automatic Notification of Air Bag Deployment
- Theft Notification and Stolen Vehicle Tracking
- Roadside Assistance with Location
- Remote Diagnostics
- OnStar MED-NET
- Accident Assist

Convenience Services

- Remote Door Unlock
- Route Support
- Concierge Services
- Ride Assist

A complete user's guide is provided with the OnStar System. For more information contact OnStar at 1-888-ONSTAR7.

Assist Handles

A handle above each door can be used when getting out of your vehicle.

Umbrella Holder

The driver's and passenger's front seat cushion comes equipped with an umbrella holder. Gently slide the umbrella into the slot located under the front portion of the driver's or passenger's seat cushion.

Floor Mats

Your vehicle is equipped with rubber-backed front and rear floor mats. Keep them clean by vacuuming and using a spot cleaner, if necessary. Do not machine wash.

Sunroof (Option)



The two control switches to operate the sunroof are located on the overhead console and include VENT, open and close.

The control switches work only when the ignition is on or the Retained Accessory Power (RAP) is active. See “Retained Accessory Power” in the Index.

To open the glass panel and sunshade, press and hold the ROOF switch rearward to the first position. The sunshade can also be opened by hand. To close the glass panel, press and hold the ROOF switch forward. As the glass panel closes, it will open slightly toward the vent to provide a better seal. The sunshade can only be closed by hand.

To express-open the glass panel to a partially open position, press and release the ROOF switch rearward to the second position. The glass panel may be fully opened by pressing the ROOF switch again.

To stop the glass panel when express opening, press either the ROOF or VENT switch in any direction.

If you press and hold the ROOF switch in the express open position for more than one second, the express open operation will be over-riden and the sunroof will stop when the switch is released.

To vent the glass panel, press and hold the VENT switch in the open position. The sunshade must be opened by hand. To close the glass panel, press and hold the VENT switch in the close position.

HomeLink[®] Transmitter



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

This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes and modifications to this system by other than an authorized service facility could void authorization to use this equipment.

Programming the HomeLink Transmitter

Do not use the HomeLink Transmitter with any garage door opener that does not have the “stop and reverse” safety feature. This includes any garage door opener model manufactured before April 1, 1982.

Be sure that people and objects are clear of the garage door you are programming.

Your vehicle’s engine should be turned off while programming the transmitter. Follow these steps to program up to three channels:

1. If you have previously programmed a transmitter channel, proceed to Step 2. Otherwise, hold down the two outside buttons on the HomeLink Transmitter until the indicator light begins to flash rapidly (after 20 seconds). Then release the buttons. This procedure initializes the memory and erases any previous settings for all three channels.
2. Decide which one of the three channels you want to program. Hold the end of the hand-held transmitter about 2 to 5 inches (5 to 13) away from the surface of the HomeLink Transmitter so that you can still see the indicator light.
3. Using both hands, press the hand-held transmitter button and the desired button on the HomeLink Transmitter. Continue to press both buttons through Step 4.
4. Hold down both buttons until you see the indicator light on the HomeLink Transmitter flash slowly and then rapidly. The rapid flashing indicates that the HomeLink Transmitter has been programmed. Release both buttons once the indicator light starts to flash rapidly.

If you have trouble programming the HomeLink Transmitter, make sure that you have followed the directions exactly as described. The HomeLink Transmitter may not work with older garage door openers that do not meet current Federal Consumer Safety Standards. If you cannot program the transmitter after repeated attempts, refer to “Rolling Code Programming” later in this section or contact the HomeLink Transmitter manufacturer at 1-800-355-3515.

Be sure to keep the original hand-held transmitter in case you need to erase and reprogram the HomeLink Transmitter.

Canadian Owners: During programming, the hand-held transmitter may automatically stop transmitting after one or two seconds. In this case, you should press and re-press the button on the hand-held transmitter every two seconds without ever releasing the button on the HomeLink Transmitter. Release both buttons when the indicator light on the HomeLink Transmitter begins to flash rapidly.

Operating the HomeLink Transmitter

Press and release the appropriate button on the HomeLink Transmitter. The indicator light comes on while the signal is being transmitted.

The HomeLink Transmitter is disabled when the VALET lockout button inside the glove box is activated. For more information, see “Valet Lockout Button” in the Index.

If the hand-held transmitter appears to program the HomeLink Transmitter but does not open your garage door, and if the garage door opener was manufactured after 1996, the garage door opener may have a “rolling code” system. A rolling code system changes the code of the garage door opener every time you open or close the garage door.

To determine if you have this system, press the button on the HomeLink Transmitter that you have programmed already. If the indicator light on the HomeLink Transmitter flashes rapidly for two seconds and then turns solid, the garage door opener has a rolling code system. In a rolling code system, the garage door motor head unit must be trained to the HomeLink Transmitter.

“Rolling Code” Programming

If you have not previously programmed the hand-held transmitter to the HomeLink Transmitter, see “Programming the HomeLink Transmitter” listed previously. If you have completed this programming already, you now need to train the garage door opener motor head unit to recognize the HomeLink Transmitter. Refer to your garage door opener owner’s manual for the proper transmitter training procedure for your garage door opener brand.

1. Find the training button on the garage door opener motor head unit. The exact location and color of the button may vary by garage door opener brand. If you have difficulty finding the training button, refer to your garage door opener owner’s manual.
2. Press the training button on the garage door opener motor head unit.

Following this step, you have 30 seconds to start Step 3.

3. Return to the HomeLink Transmitter in your vehicle and firmly press and release the HomeLink Transmitter button you have already programmed for two to three seconds. Press and release the button again (you may need to do this step up to three times) to make sure that the HomeLink Transmitter has been trained to the garage door opener motor head unit. Check that the training was successful.

The garage door opener should now recognize the HomeLink Transmitter. You may either use the HomeLink Transmitter or the hand-held transmitter to open the garage door.

If after following these instructions, you still have problems training the garage door opener, contact the HomeLink Transmitter manufacturer at 1-800-355-3515.

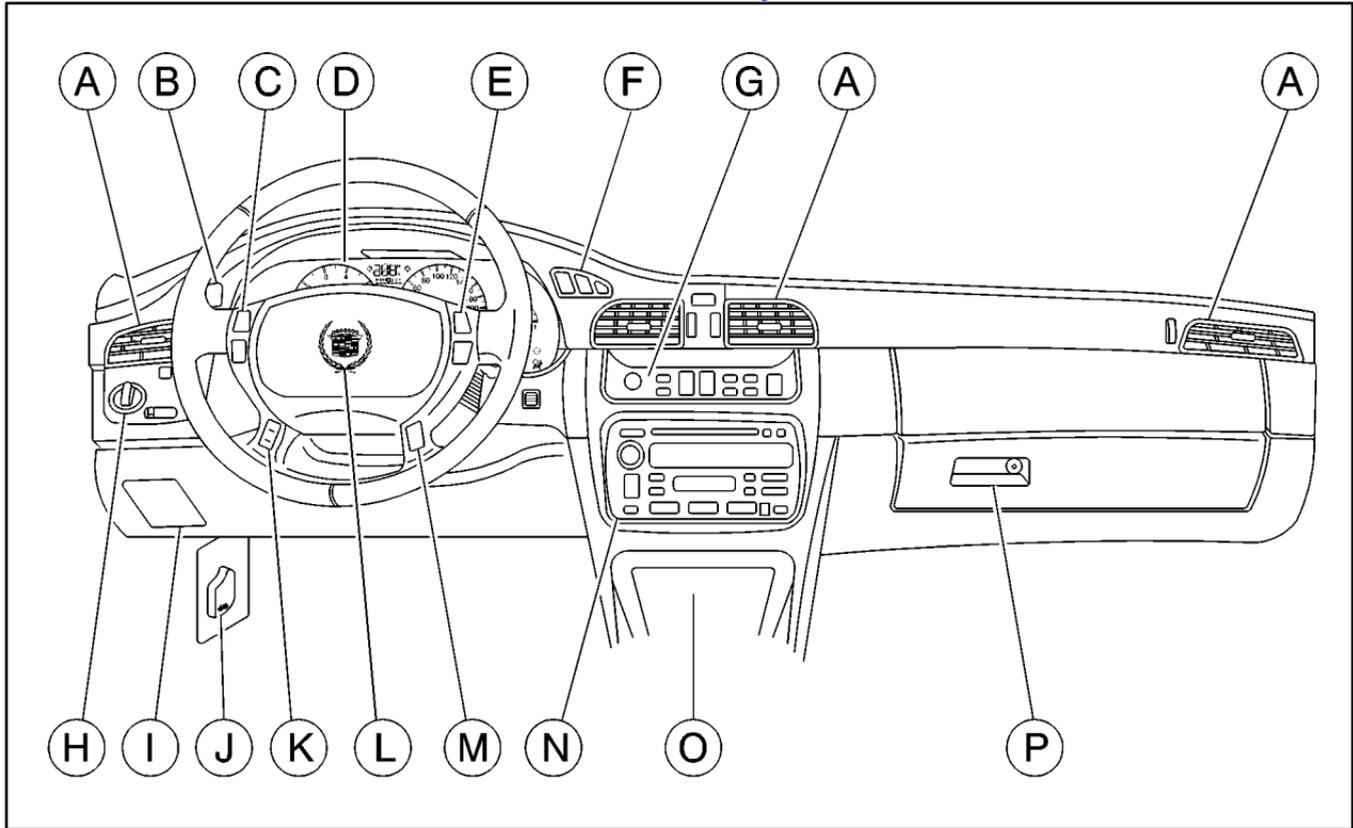
Erasing Channels

To erase all three programmed channels, hold down the two outside buttons until the indicator light begins to flash (after 20 seconds). Release both buttons.

Accessories

Accessories for the HomeLink Transmitter are available from the manufacturer of the unit. If you would like additional information, please call 1-800-355-3515.

The Instrument Panel -- Your Information System

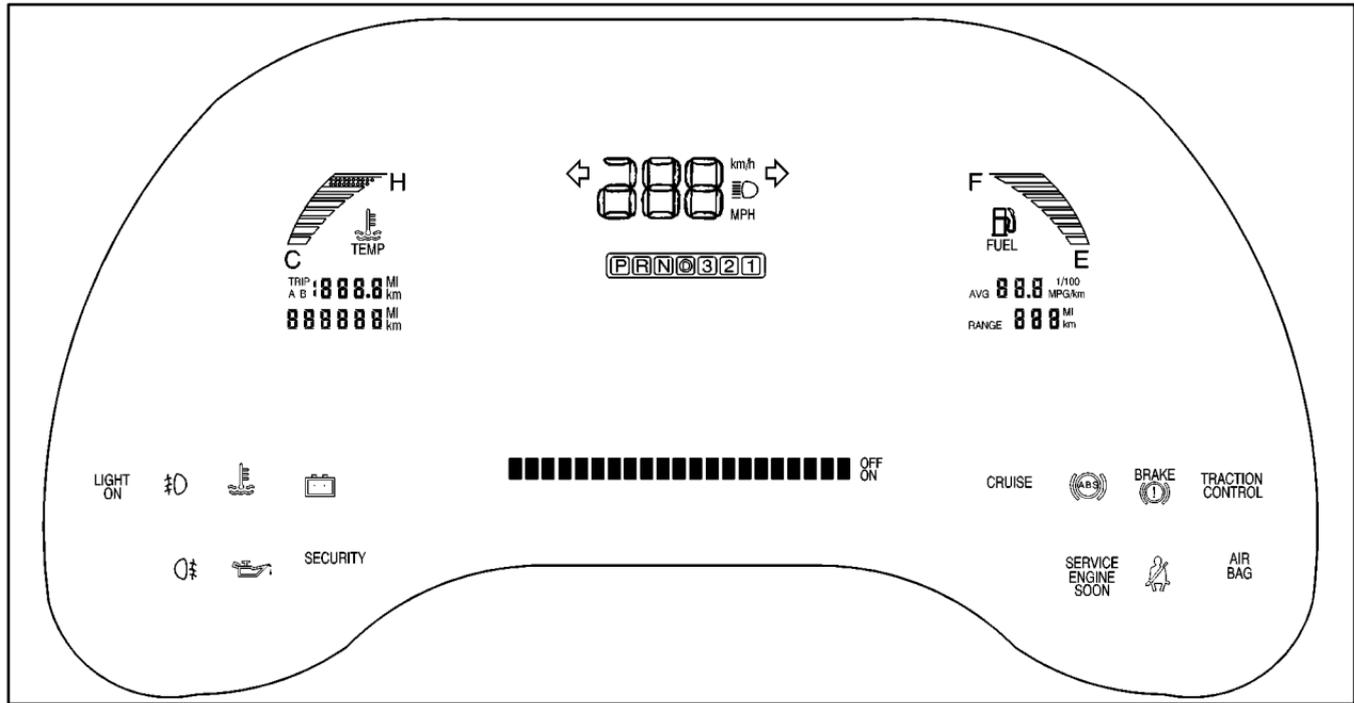


The main components of the instrument panel are:

- A. Air Outlets
- B. Turn Signal/Multifunction Lever
- C. HVAC Steering Wheel Controls (or Cellular Telephone Controls, If Equipped)
- D. Cluster
- E. Audio Steering Wheel Controls
- F. Driver Information Center Control Buttons
- G. Electronic Climate Controls
- H. Lamp Controls
- I. Night Vision Controls
- J. Hood Release
- K. Cruise Control
- L. Horn
- M. Cruise Control
- N. Radio
- O. Ashtray
- P. Glove Box

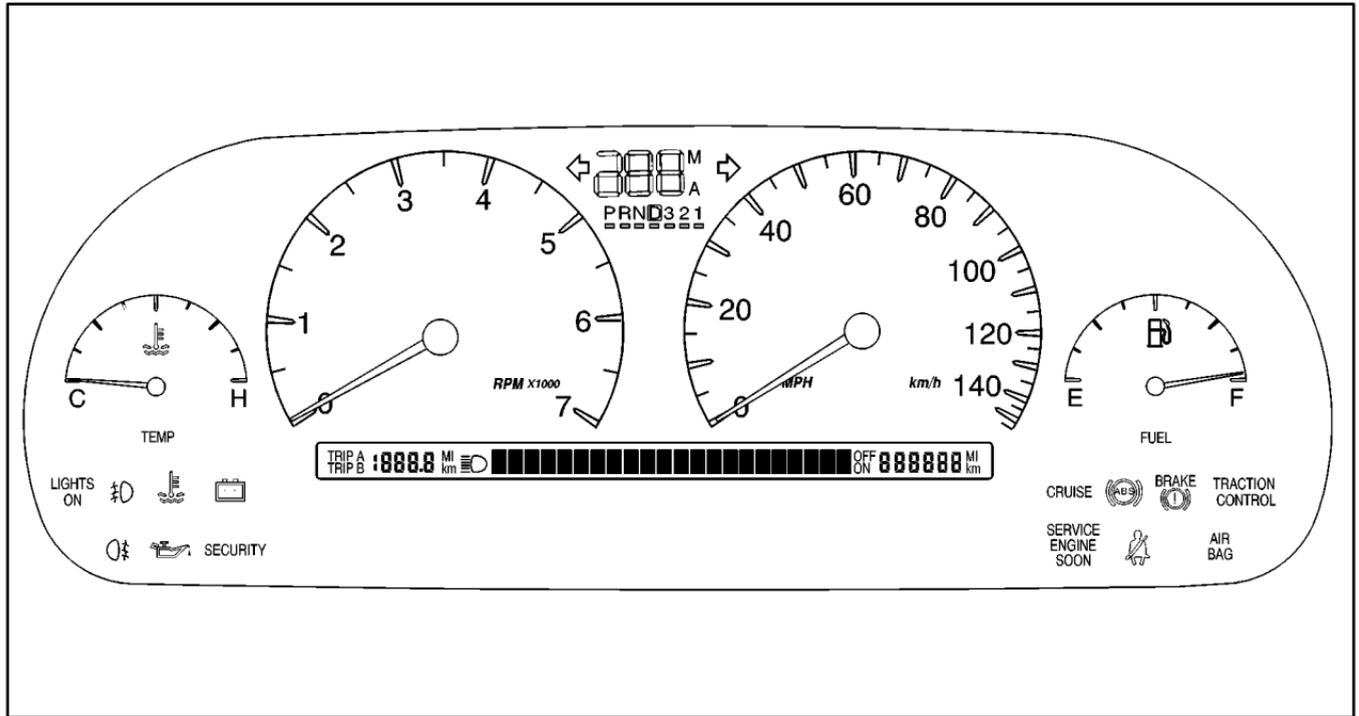
Digital Cluster (If Equipped)

The instrument panel cluster is designed to let you know at a glance how your vehicle is running. You'll know how fast you're going, how much fuel you're using and many of the other things you'll need to know to drive safely and economically.



United States version shown, Canada similar

Analog Cluster (If Equipped)



United States version shown, Canada similar

Speedometer and Odometer

The speedometer lets you see your speed in both miles per hour (mph) and kilometers per hour (km/h). The odometer shows how far your vehicle has been driven, in either miles (used in the United States) or kilometers (used in Canada).

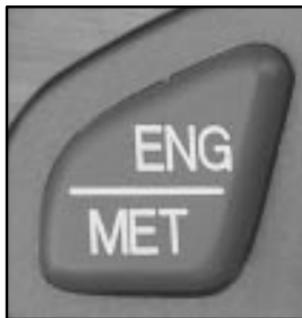
You may wonder what happens if a vehicle has to have a new odometer installed. The new one may read the correct mileage. This is because your vehicle's computer has stored the mileage in memory.

Trip Odometer



Press this button, to tell how far you've traveled since you last set the trip odometer back to zero.

English/Metric Button



By pressing this button, you can go back and forth from English (miles) to metric (kilometers).

Other readings such as temperature, fuel and trip odometer also go back and forth between English and metric.

Display Mode

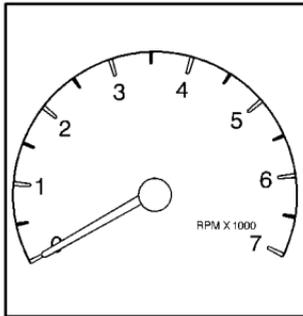
On the analog cluster, this button is located between the trip odometer and ENG/Metric button. Press DSPL MODE to turn the backlighting and the digital speed image on and off.

On the digital cluster, press DSPL MODE to turn the digital displays other than the speedometer and gear display on and off.

Vehicle Speed Limiter

This feature prevents your vehicle from exceeding speeds that the tires are not rated for. When this happens, the engine's fuel supply is shut off. When the vehicle speed slows, the fuel supply will come on again.

Tachometer (Analog Cluster Only)



This gage indicates the engine speed in revolutions per minute (rpm).

NOTICE:

Do not operate the engine with the tachometer in the red area or engine damage may occur.

Engine Speed Limiter

This feature prevents the engine from operating at too many revolutions per minute (rpm). When the engine's rpm are critically high, the fuel supply to the engine is shut off. When the engine speed slows, the fuel supply will come on again. This helps prevent damage to the engine.

Warning Lights, Gages and Indicators

This part describes the warning lights and gages that may be on your vehicle. The pictures will help you locate them.

Warning lights and gages can signal that something is wrong before it becomes serious enough to cause an expensive repair or replacement. Paying attention to your warning lights and gages could also save you or others from injury.

Warning lights come on when there may be or is a problem with one of your vehicle's functions. As you will see in the details on the next few pages, some warning lights come on briefly when you start the engine just to let you know they're working. If you are familiar with this section, you should not be alarmed when this happens.

Gages can indicate when there may be or is a problem with one of your vehicle's functions. Often gages and warning lights work together to let you know when there's a problem with your vehicle.

When one of the warning lights comes on and stays on when you are driving, or when one of the gages shows there may be a problem, check the section that tells you what to do about it. Please follow this manual's advice. Waiting to do repairs can be costly -- and even dangerous. So please get to know your warning lights and gages. They're a big help.

Your vehicle also has a Driver Information Center (DIC) that works along with the warning lights and gages. See "Driver Information Center" in the Index.

Safety Belt Reminder Light

When the key is turned to ON, a chime will come on for about eight seconds to remind people to fasten their safety belts, unless the driver's safety belt is already buckled.



The safety belt light will also come on and stay on for about 20 seconds, then it will flash for about 70 seconds.

If the driver's belt is already buckled, neither the nor the light will come on.

If the driver's belt is already buckled, the light will come on briefly, but the chime will not sound.

Air Bag Readiness Light

There is an air bag readiness light on the instrument panel, which shows AIR BAG or the symbol of an air bag. The system checks the air bag's electrical system for malfunctions. The light tells you if there is an electrical problem. The system check includes the air bag sensors, the air bag modules, the wiring and the crash sensing and diagnostic module. For more information on the air bag system, see "Air Bag" in the Index.



United States

This light will come on when you start your vehicle, and it will flash for a few seconds. Then the light should go out. This means the system is ready.

If the air bag readiness light stays on after you start the vehicle or comes on when you are driving, your air bag system may not work properly. Have your vehicle serviced right away.



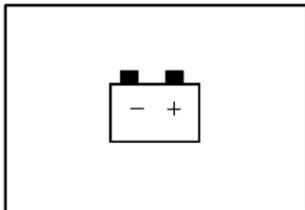
Canada

CAUTION:

If the air bag readiness light stays on after you start your vehicle, it means the air bag system may not be working properly. The air bags in your vehicle may not inflate in a crash, or they could even inflate without a crash. To help avoid injury to yourself or others, have your vehicle serviced right away if the air bag readiness light stays on after you start your vehicle.

The air bag readiness light should flash for a few seconds when you turn the ignition key to ON. If the light doesn't come on then, have it fixed so it will be ready to warn you if there is a problem.

Charging System Light



When you turn the key to ON, this light will come on briefly to show that the generator and battery charging systems are working.

If this light stays on, you need service and you should take your vehicle to the dealer at once. To save your battery until you get there, turn off all accessories.

Brake System Warning and Park Brake Indicator Light

Your vehicle's hydraulic brake system is divided into two parts. If one part isn't working, the other part can still work and stop you. For good braking, though, you need both parts working well.

If the warning light comes on, there is a brake problem. Have your brake system inspected right away.



This light should come on briefly when you turn the ignition key to ON. If it doesn't come on then, have it fixed so it will be ready to warn you if there's a problem.

If the light comes on while you are driving, pull off the road and stop carefully. You may notice that the pedal is harder to push. Or, the pedal may go closer to the floor. It may take longer to stop. If the light is still on, have the vehicle towed for service. (See "Towing Your Vehicle" in the Index.)

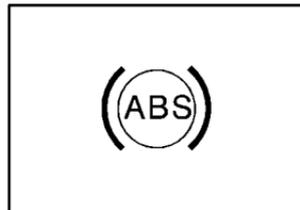


CAUTION:

Your brake system may not be working properly if the brake system warning light is on. Driving with the brake system warning light on can lead to an accident. If the light is still on after you've pulled off the road and stopped carefully, have the vehicle towed for service.

When the ignition is on, the brake system warning light will also come on when you set your parking brake. The light will stay on if your parking brake doesn't release fully. If it stays on after your parking brake is fully released, it means you have a brake problem.

Anti-Lock Brake System Warning Light



With the anti-lock brake system, the light(s) will come on when you start your engine and may stay on for several seconds. That's normal.

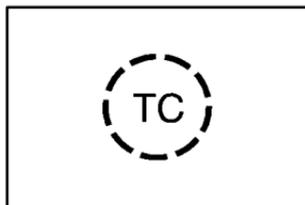
If the light stays on, turn the ignition to OFF. Or, if the light comes on when you're driving, stop as soon as possible and turn the ignition off. Then start the engine again to reset the system. If the light still stays on, or comes on again while you're driving, your vehicle needs service. If the regular brake system warning light isn't on, you still have brakes, but you don't have anti-lock brakes. If the regular brake system warning light is also on, you don't have anti-lock brakes and there's a problem with your regular brakes. See "Brake System Warning Light" earlier in this section.

The anti-lock brake system warning light should come on briefly when you turn the ignition key to ON. If the light doesn't come on then, have it fixed so it will be ready to warn you if there is a problem.

Traction Control System Warning Light



United States



Canada

This warning light should come on briefly as you start the engine.

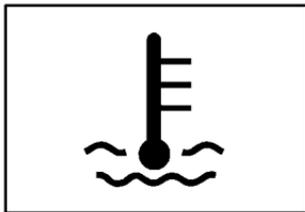
If the warning light doesn't come on then, have it fixed so it will be ready to warn you if there's a problem. If it stays on, or comes on when you're driving, there may be a problem with your traction control system and your vehicle may need service. When this warning light is on, the system will not limit wheel spin. Adjust your driving accordingly.

The traction control system warning light may come on for the following reasons:

- If there's a brake system problem that is specifically related to traction control, the traction control system will turn off and the warning light will come on.
- If the traction control system is affected by an engine-related problem, the system will turn off and the warning light will come on.

If the traction control system warning light comes on and stays on for an extended period of time when the system is turned on, your vehicle needs service.

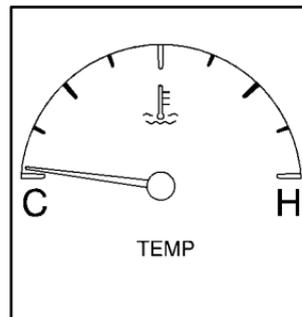
Engine Coolant Temperature Warning Light



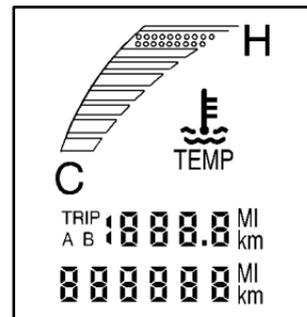
This light tells you that your engine has overheated. You should stop your vehicle and turn the engine off as soon as possible. A warning chime should also sound if this light comes on.

As a check, the light should come on for a few seconds when you start your engine. See “Engine Overheating” in the Index.

Engine Coolant Temperature Gage



Analog Cluster

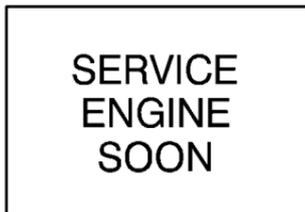


Digital Cluster

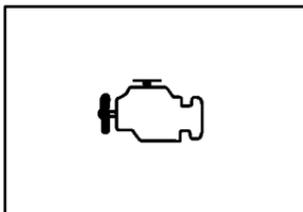
This gage shows the engine coolant temperature. If the gage pointer moves into the red area, the engine is too hot.

That reading means the same thing as the warning light -- the engine coolant has overheated. See “Engine Overheating” in the Index.

Malfunction Indicator Lamp (Service Engine Soon Light in the United States or Check Engine Light in Canada)



United States



Canada

Your vehicle is equipped with a computer which monitors operation of the fuel, ignition and emission control systems.

This system is called OBD II (On-Board Diagnostics-Second Generation) and is intended to assure that emissions are at acceptable levels for the life of the vehicle, helping to produce a cleaner environment. The SERVICE ENGINE SOON or CHECK ENGINE light comes on and a chime will sound to indicate that there is a problem and service is required. Malfunctions often will be indicated by the system before any problem is apparent. This may prevent more serious damage to your vehicle. This system is also designed to assist your service technician in correctly diagnosing any malfunction.

NOTICE:

If you keep driving your vehicle with this light on, after a while, your emission controls may not work as well, your fuel economy may not be as good and your engine may not run as smoothly. This could lead to costly repairs that may not be covered by your warranty.

NOTICE:

Modifications made to the engine, transaxle, exhaust or fuel system of your vehicle or the replacement of the original tires with other than those of the same Tire Performance Criteria (TPC) can affect your vehicle's emission controls and may cause the SERVICE ENGINE SOON or CHECK ENGINE light to come on. Modifications to these systems could lead to costly repairs not covered by your warranty. This may also result in a failure to pass a required Emission Inspection/Maintenance test.

This light should come on, as a check to show you it is working, when the ignition is on and the engine is not running. If the light doesn't come on, have it repaired. This light will also come on during a malfunction in one of two ways:

- **Light Flashing** -- A misfire condition has been detected. A misfire increases vehicle emissions and may damage the emission control system on your vehicle. Dealer or qualified service center diagnosis and service may be required.

- **Light On Steady** -- An emission control system malfunction has been detected on your vehicle. Dealer or qualified service center diagnosis and service may be required.

If the Light Is Flashing

The following may prevent more serious damage to your vehicle:

- Reducing vehicle speed.
- Avoiding hard accelerations.
- Avoiding steep uphill grades.
- If you are towing a trailer, reduce the amount of cargo being hauled as soon as it is possible.

If the light stops flashing and remains on steady, see “If the Light Is On Steady” following.

If the light continues to flash, when it is safe to do so, *stop the vehicle*. Find a safe place to park your vehicle. Turn the key off, wait at least 10 seconds and restart the engine. If the light remains on steady, see “If the Light Is On Steady” following. If the light is still flashing, follow the previous steps, and drive the vehicle to your dealer or qualified service center for service.

If the Light Is On Steady

You may be able to correct the emission system malfunction by considering the following:

Did you recently put fuel into your vehicle?

If so, reinstall the fuel cap, making sure to fully install the cap. See “Filling Your Tank” in the Index. The diagnostic system can determine if the fuel cap has been left off or improperly installed. A loose or missing fuel cap will allow fuel to evaporate into the atmosphere. A few driving trips with the cap properly installed should turn the light off.

Did you just drive through a deep puddle of water?

If so, your electrical system may be wet. The condition will usually be corrected when the electrical system dries out. A few driving trips should turn the light off.

Are you low on fuel?

As your engine starts to run out of fuel, your engine may not run as efficiently as designed since small amounts of air are sucked into the fuel line causing a misfire. The system can detect this. Adding fuel should correct this condition. Make sure to install the fuel cap properly. See “Filling Your Tank” in the Index. It will take a few driving trips to turn the light off.

Have you recently changed brands of fuel?

If so, be sure to fuel your vehicle with quality fuel (see “Fuel” in the Index). Poor fuel quality will cause your engine not to run as efficiently as designed. You may notice this as stalling after start-up, stalling when you put the vehicle into gear, misfiring, hesitation on acceleration or stumbling on acceleration. (These conditions may go away once the engine is warmed up.) This will be detected by the system and cause the light to turn on.

If you experience one or more of these conditions, change the fuel brand you use. It will require at least one full tank of the proper fuel to turn the light off.

If none of the above steps have made the light turn off, have your dealer or qualified service center check the vehicle. Your dealer has the proper test equipment and diagnostic tools to fix any mechanical or electrical problems that may have developed.

Emissions Inspection and Maintenance Programs

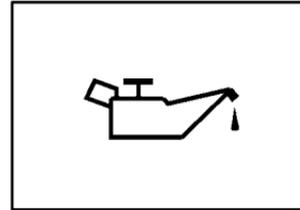
Some state/provincial and local governments have or may begin programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration.

Here are some things you need to know in order to help your vehicle pass an inspection:

Your vehicle will not pass this inspection if the SERVICE ENGINE SOON or CHECK ENGINE light is on or not working properly.

Your vehicle will not pass this inspection if the OBD (on-board diagnostic) system determines that critical emission control systems have not been completely diagnosed by the system. The vehicle would be considered not ready for inspection. This can happen if you have recently replaced your battery or if your battery has run down. The diagnostic system is designed to evaluate critical emission control systems during normal driving. This may take several days of routine driving. If you have done this and your vehicle still does not pass the inspection for lack of OBD system readiness, see your dealer or qualified service center to prepare the vehicle for inspection.

Oil Pressure Light



This light tells you if there could be a problem with your engine oil pressure.

The light goes on when you turn your key to ON. It goes off once you start your engine. That's a check to be sure the light works. If it doesn't come on, be sure to have it fixed so it will be there to warn you if something goes wrong.

When the light *comes* on and *stays* on, it means that oil isn't flowing through your engine properly. You could be low on oil and you might have some other system problem.

 **CAUTION:**

Don't keep driving if the oil pressure is low. If you do, your engine can become so hot that it catches fire. You or others could be burned. Check your oil as soon as possible and have your vehicle serviced.

NOTICE:

Damage to your engine from neglected oil problems can be costly and is not covered by your warranty.

Security Light

SECURITY

For information regarding this light, see "Theft Deterrent-System" in the Index.

Fog Lamp Light (If Equipped)

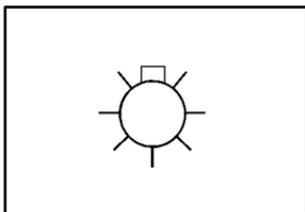


This light will come on when the fog lamp button is pressed. For more information about the fog lamps, see "Fog Lamps" in the Index.

Lights On Reminder



United States



Canada

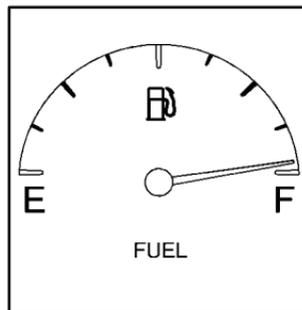
This light comes on as a reminder that your headlamps are on.

Cruise Control Light

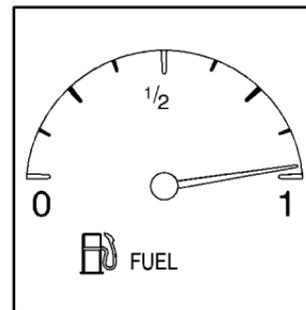


This light comes on whenever you set your vehicle's cruise control.

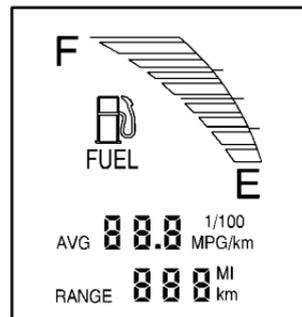
Fuel Gage



Analog (United States)



Analog (Canada)



Digital

The fuel gage shows approximately how much fuel is in the tank. It works only when the ignition is in ON.

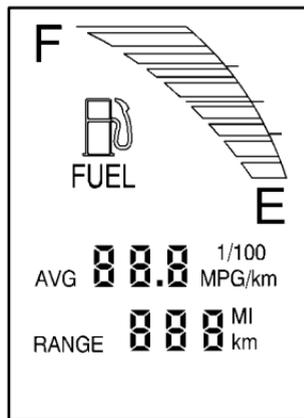
If the fuel supply gets down to approximately three gallons (11.4 L) of fuel remaining in the tank, the FUEL LEVEL LOW message will appear on the Driver Information Center (DIC).

On the digital cluster, if the fuel is less than approximately 1.2 gallons (4.7 L) the “E” segment on the gage will flash.

Here are a few concerns some owners have had about the fuel gage. All of these situations are normal and do not indicate that anything is wrong with the fuel gage:

- At the gas station the gas pump shuts off before the gage reads full.
- GAL FUEL USED on the Driver Information Center does not correspond exactly to the amount of fuel remaining as shown on the fuel gage.
- The gage may change when you turn, stop or speed up.

Fuel Data Display (Digital Cluster)



The fuel data display tells you all you about the fuel economy and how far you can travel with the fuel remaining.

The average fuel economy (AVG) display shows the average miles per gallon.

To reset the average fuel economy, press the INFO button until the MPG AVG is displayed on the Driver Information Center (DIC). Press and hold the INFO RESET button until both the fuel data display and DIC display reads 0.0.

The RANGE display shows how far the computer thinks you can travel with the fuel that is in the tank. The computer does not know what driving conditions will be like for the rest of your trip, so the range is estimated based on the recent fuel economy. Therefore, the range reading may change as your driving habits change. Going from city to highway driving may increase the range reading.

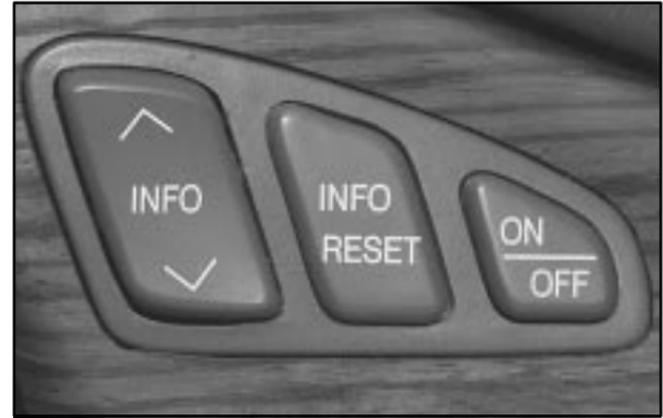
If the range display shows LO, you should stop for fuel as soon as possible.

On the analog cluster, fuel data can be obtained by pressing the INFO button. See “Driver Information Center” in the Index.

Driver Information Center (DIC)

This display gives you the status of many of your vehicle’s systems. The DIC is also used to display driver personalization features and warning/status messages.

DIC Controls and Displays



INFO: Pressing this button up or down will display the MILES RANGE (Analog Cluster), MPG AVG, MPG INST, GAL FUEL USED, AVG MPH, TIMER, BATTERY VOLTS, RPM TACHOMETER (Digital Cluster), ENGINE OIL LIFE, TRANS FLUID LIFE, PHONE (If Equipped), FEATURE PROGRAMMING and Blank Display.

INFO RESET: Pressing this button will reset the MPG AVG, GAL FUEL USED, MPH AVG, TIMER, ENGINE OIL LIFE, TRANS FLUID LIFE, when each mode is individually selected. For more information about the trip odometer, see “Odometer” in the Index.

ON/OFF: In feature programming mode, pressing this button turns the Memory and Personalization Features on and off and starts and stops the timer.

MILES RANGE: (Analog Cluster Only.) This message shows about how many miles you can drive without refilling your fuel tank. Once the range drops below 40 miles (64 km) remaining, the display will show LOW.

MPG AVG (Reset): Press the INFO button to display the MPG AVG (Average Fuel Economy).

GAL FUEL USED (Reset): Press the INFO button to display the GAL FUEL USED on the DIC.

AVG MPH (Reset): Press the INFO button to display the AVG MPH (Average Speed).

TIMER: This feature is like a stopwatch, in that you can clock the time it takes to get from one point to another.

To operate, press the INFO button to display TIMER. Each of the fields for the hours, minutes and seconds are two numeric digits.

Once TIMER 00:00:00 is displayed, press the ON/OFF button to start the timing feature. Press the ON/OFF button again to stop it. If you will be starting and stopping your vehicle, during a trip for instance, the TIMER feature will automatically start timing where it left off when you last stopped. To reset it, press and hold the INFO RESET button until the display reads TIMER 00:00:00. Press the INFO button to exit from the TIMER Display.

ENGINE OIL LIFE (Reset): Press the INFO button to display ENGINE OIL LIFE, then press and hold the INFO RESET button until 100% ENGINE OIL LIFE is displayed. (This only needs to be reset after you have had the oil changed.)

TRANSMISSION FLUID LIFE MONITOR: Under normal conditions, the rate of deterioration of the transmission fluid is slow. See the Maintenance Schedule booklet for proper fluid and change intervals. Press the INFO button to display TRANS FLUID LIFE, then press and hold the INFO RESET button until 100% TRANS FLUID LIFE is displayed. (This only needs to be reset after you have had the fluid changed.)

ENG/MET: Press this button to display information in the English (miles) or metric (kilometers) system.

Driver Information Center (DIC) Messages

These messages will appear if there is a problem sensed in one of your vehicle's systems. Vehicles that are first sold in Canada will have a number after each message. This number helps to identify the problem. You must then press INFO or INFO RESET to clear the display screen for further use. However, be sure to take any message that appears on the display screen seriously and note that pressing the INFO or INFO RESET button will only make the message disappear, not the problem.

Most messages can be removed from the display by pressing the INFORMATION or RESET Digital Control buttons, (if equipped) or by pressing the INFO RESET or INFO Analog Control buttons (if equipped) while the message is being displayed.

DIC messages can also be displayed in French, German, Spanish and Japanese. Contact your dealer to have the language display adjusted for your vehicle.

BATTERY NOT CHARGING - 7: This message will appear if the battery is not being charged. Have the electrical system checked by your dealership at your earliest convenience.

BATTERY SAVER ACTIVE - 27: This message is displayed when the vehicle has detected that the battery voltage is dropping beyond a reasonable point. The battery saver system will start reducing certain features of the vehicle that you may not be able to notice. At the point that features are disabled, this message is displayed. It means that the vehicle is trying to save the charge in the battery. Turn off unnecessary accessories to allow the battery to recharge.

BATTERY VOLTAGE HIGH - 8: This message shows that the electrical charging system is overcharging (more than 16 volts). To avoid being stranded, have the electrical system checked by your dealership. You can reduce the charging overload by using the accessories. Turn on the lamps and radio, set the climate control on AUTO and the fan speed on HI, and turn the rear window defogger on. You can monitor battery voltage on the DIC by pressing the INFO button. The normal range is 11.5 to 15.5 volts when the engine is running.

BATTERY VOLTAGE LOW - 6: This message will appear when the electrical system is charging less than 10 volts or if the battery has been drained. If this message appears immediately after starting, it is possible that the generator can still recharge the battery. The battery should recharge while driving but may take a few hours to do so. Consider using an auxiliary charger (be sure to follow the manufacturer's instructions) to boost the battery after returning home or to a final destination. If this message appears while driving or after starting your vehicle and stays on, have it checked immediately to determine the cause of this problem. To help the generator recharge the battery quickly, you can reduce the load on the electrical system by turning off the accessories. You can monitor battery voltage on the DIC by pressing the INFO button. The normal range is 11.5 to 15.5 volts.

CHANGE ENGINE OIL - 82: This means that the life of the engine oil has expired and it should be changed within 200 miles. See "Engine Oil" and "Filter Recommendations" in the Maintenance Schedule booklet. After an oil change, the Oil Life Indicator must be reset. See "Oil Life Indicator, How to Reset" in the Index.

CHANGE TRANS FLUID - 47: This message will appear when it is time to replace the transaxle fluid. See the Maintenance Schedule booklet for the proper fluid and change intervals.

CHECK BRAKE FLUID - 37: This message will display if the ignition is in ON to inform the driver that the brake fluid level is low. Have the brake system serviced by a technician as soon as possible. See "Brake System Warning Light" in the Index.

CHECK COOLANT LEVEL - 2: This message will appear when there is a low level of engine coolant. Have the cooling system serviced by a technician as soon as possible.

CHECK FUEL GAGE - 50: (Analog Cluster Only)
This message will appear when the fuel supply is less than 5 gallons (18.9 L) and the display is turned off. A single chime will also sound when this message is displayed.

CHECK GAS CAP - 61: This message will appear if the gas cap has not been fully tightened. You should recheck your gas cap to ensure that it's fully tightened.

CHECK OIL LEVEL - 36: For correct operation of the low oil sensing system, your vehicle should be on a level surface. A false CHECK OIL LEVEL message may appear if the vehicle is parked on grades. The oil level sensing system does not check for actual oil level if the engine has been off for a short period of time, and the oil level is never sensed while the engine is running. If the CHECK OIL LEVEL message appears, and your vehicle has been parked on level ground with the engine off for at least 30 minutes, the oil level should be checked by observing the oil dipstick. Prior to checking the oil level, be sure the engine has been off for a few minutes and your vehicle is on a level surface. Then check the dipstick and add oil if necessary. See “Engine Oil” in the Index.

CHECK WASHER FLUID - 25: This message will appear to indicate that the washer solvent container needs refilling.

DRIVER DOOR AJAR - 140: This message will display anytime the key is in ON and the driver’s door is open or ajar. A chime will also sound when the vehicle’s speed is greater than 3 mph (4.8 km/h).

DRIVER NO. X (1 OR 2) : This message will be displayed with the key in ON and while entering Feature Programming, but only if the vehicle is equipped with memory seats. The message will show which driver is activating the personalization feature. It will only stay on for five seconds. This message can be customized for you by your dealer.

ENGINE COOLANT HOT, IDLE ENGINE - 44: This message will appear when the engine coolant temperature is over 262°F (128°C). Stop and allow your vehicle to idle in PARK (P) until it cools down and the message is removed. Do not increase engine speed above a normal idle. If it does not cool down, turn off the engine and have it serviced before driving it again. Severe engine damage can result from an overheated engine. See “Engine Overheating” in the Index.

ENGINE HOT-AC OFF - 16: This message displays when the engine coolant becomes hotter than the normal operating temperature. To avoid added strain on a hot engine, the air conditioning compressor is automatically turned off. When the coolant temperature returns to normal, the A/C operation will automatically resume. You can continue to drive your vehicle. If this message continues to appear, have the system repaired as soon as possible to avoid compressor damage.

ENGINE OVERHEATED, STOP ENGINE - 42: This message will appear when the engine has overheated. Stop and turn the engine off immediately to avoid severe engine damage. See “Engine Overheating” in the Index. A multiple chime will also sound when this message is displayed.

ENGINE POWER REDUCED - 41: This message informs you that the vehicle is reducing engine power because the transaxle is being placed in gear under conditions that may cause damage to the vehicle’s engine, transaxle or ability to accelerate.

FUEL LEVEL LOW - 11: This message serves as a warning that the fuel level in the tank is critically low. Stop for fuel soon. A single chime will also sound when this message is displayed.

HEADLAMPS SUGGESTED - 23: If it’s dark enough outside and the headlamps and Twilight Sentinel[®] controls are off, a HEADLAMPS SUGGESTED message will display on the DIC. This message informs the driver that turning on the exterior lamps is recommended even though the Daytime Running Lamps (DRL) are still illuminated. It has become dark enough outside to require the headlamps and/or other exterior lamps. This message will also appear if the optional Rainsense[™] wiping feature is on and the Twilight Sentinel[®] is off.

ICE POSSIBLE - 13: This message appears when the outside air temperature is cold enough to create icy road conditions.

LEFT REAR DOOR AJAR - 142: The left rear door is open or ajar when this message appears. The ignition must be in ON and the transaxle not in PARK (P) for this message to display. A chime will also sound when the vehicle’s speed is greater than 3 mph (4.8 km/h).

OIL PRESSURE LOW STOP ENGINE - 35: If this message appears while the engine is running, stop the engine and do not operate it until the cause of low oil pressure is corrected. Severe damage to the engine can result. A multiple chime will also sound when this message is displayed.

PASSENGER DOOR AJAR - 141: The passenger’s door is open or ajar when this message appears. The ignition must be in ON and the transaxle not in PARK (P) for this message to display. A chime will also sound when the vehicle’s speed is greater than 3 mph (4.8 km/h).

RIGHT REAR DOOR AJAR - 143: The right rear door is open or ajar when this message appears. The ignition must be in ON and the transaxle not in PARK (P) for this message to display. A chime will also sound when the vehicle’s speed is greater than 3 mph (4.8 km/h).

SERVICE AC SYSTEM - 14: This message appears when the electronic sensors that control the air conditioning and heating systems are no longer working. Have the climate control system serviced if you notice a drop in heating and air conditioning efficiency.

SERVICE AIR BAG - 83: There is a problem with the supplemental inflatable restraint (air bag) system when this message appears. Let only a qualified technician work on your vehicle. See your dealership for service at once.

SERVICE CHARGING SYS - 102: This message will display when a problem with the charging system has been detected. Have your vehicle serviced at your dealership.

SERVICE ELECTRICAL SYS - 106: This message will display if an electrical problem has occurred within the Powertrain Control Module (PCM) or the ignition switch. Have your vehicle serviced by your dealership.

SERVICE FUEL SYSTEM - 101: The Powertrain Control Module (PCM) has detected a problem within the fuel system when this message appears. See your dealership for service.

SERVICE IDLE CONTROL - 107: A problem with the idle control has occurred when this message displays. Take your vehicle to your dealership for service.

SERVICE STABILITY SYS - 54 : If you ever see the SERVICE STABILITY SYS message, it means there may be a problem with your stability enhancement system. If you see this message, try to reset the system (stop; turn off the engine; then start the engine again). If the SERVICE STABILITY SYS message still comes on, it means there is a problem. You should see your dealer for service. Reduce your speed and drive accordingly. A single chime will also sound when this message is displayed.

STABILITY SYS ENGAGED - 55 : You may see the STABILITY SYS ENGAGED message on the Driver Information Center. It means that an advanced, computer-controlled system has come on to help your vehicle continue to go in the direction in which you're steering. This stability enhancement system activates when the computer senses that your vehicle is just starting to spin, as it might if you hit a patch of ice or other slippery spot on the road. When the system is on, you may hear a noise or feel a vibration in the brake pedal. This is normal.

When the STABILITY SYS ENGAGED message is on, you should continue to steer in the direction you want to go. The system is designed to help you in bad weather or other difficult driving situations by making the most of whatever road conditions will permit. If the STABILITY SYS ENGAGED message comes on, you'll know that something has caused your vehicle to start to spin, so you should consider slowing down. A single chime will also sound when this message is displayed.

SERVICE STEERING - 127: This message is displayed when a problem has been detected in the Magnasteer[®] variable effort steering system. If message comes on, service is required.

SERVICE SUSPENSION SYS - 84: This message is displayed to indicate that the suspension system is not operating properly. To correct this problem, have your vehicle serviced at your dealership.

SERVICE THEFT SYSTEM - 34: This message means there is a problem in the Personalized Automotive Security System (PASS-Key[®] III). A fault has been detected in the system which means that the PASS-Key III system is disabled and is not protecting the vehicle. The vehicle usually restarts, however, you may want to take your vehicle to a proper service center before turning off the engine.

SERVICE TRANSMISSION - 100: See your dealer for repair.

SERVICE VEHICLE SOON - 3: This message is displayed when a non-emissions related powertrain malfunction occurs. Have your vehicle serviced by a technician as soon as possible.

SPEED LIMITED TO 90 - 113: A failure in the suspension control system has occurred when this message appears. The Powertrain Control Module (PCM) determines the speed to which your vehicle is limited. Have your vehicle serviced if this message appears.

STARTING DISABLED REMOVE KEY - 33: This message will appear when the Personalized Automotive Security System (PASS-Key[®] III) senses that an improper ignition key is being used to try to start the vehicle. Check the ignition key for damage. If it is damaged, it may need to be replaced. If you see no damage, remove the key and try to start the vehicle again. If it still does not start, try another ignition key.

THEFT ATTEMPTED - 40: This message is displayed if the theft system has detected a break-in attempt while you were away from your vehicle.

TOP SPEED FUEL CUT-OFF - 111: This message will appear when the Powertrain Control Module (PCM) senses that the maximum speed for your vehicle has been reached. The speed of your vehicle will surge as the fuel supply is cut off. This allows your vehicle to stay in a safe tire operating range. The top speed is set based on the top speed rating of the tires.

TRACTION ENGAGED - 91 : When your traction control system is limiting wheel spin, the TRACTION ENGAGED message will be displayed. Slippery road conditions may exist if this message is displayed, so adjust your driving accordingly. This message will stay on for a few seconds after the traction control system stops limiting wheel spin.

TRACTION OFF - 89: This message will be displayed after the traction control has been turned off by the button on the center console.

TRACTION READY - 90: This message informs the driver that the traction control system is available. This occurs when the traction control switch on the console has been returned to ON (pressing the button once turns the traction control system off: pressing the button again turns the system back on). This message will automatically disappear from the display after five seconds.

TRACTION SUSPENDED - 56: This message displays when the traction control system has been temporarily shut off because your vehicle's brakes have overheated. This message does not indicate a problem with your vehicle's traction control system. After a few minutes, the traction control system will be available again and the TRACTION READY message will appear.

TRANS HOT IDLE ENGINE - 112: This message indicates that the transaxle fluid in your vehicle is too hot. Stop and allow your vehicle to idle until it cools down or until this message is removed.

TRUNK OPEN - 24: This message indicates that the trunk is open when the ignition is on.

TURN SIGNAL ON - 20: This message is a reminder, after driving about a mile, that you have the turn signal on. A multiple chime will also sound when this message is displayed.

VEHICLE OVERSPEED - 52: This message is displayed when the vehicle speed exceeds a certain limit as required by some export countries. A continuous chime will also sound when this message is displayed.

Vehicle Programming and Personalization Features (If Equipped)

If your vehicle is equipped with personalization, you can program certain features to a preferred setting for up to two people. If your vehicle does not have personalization then some of the features on your vehicle have been programmed for all drivers. On all vehicles, other features such as HVAC settings, radio preset settings, exterior lighting at unlock, remote lock and unlock confirmation, and automatic door locks have already been programmed for your convenience. If the vehicle is equipped with personalization then the seat position, steering column position (if equipped) and outside mirror position can also be programmed. The Navigation screen preferences (if equipped) will remain at the last set position.

If your vehicle is equipped with personalization the driver's preferences are recalled by pressing the unlock button on the remote keyless entry transmitter or by pressing the appropriate memory button "1" or "2" located on the driver's door. Please note that certain features can be programmed not to recall until the key is placed in the ignition. To change feature preferences you must enter feature programming (see below).

Entering Feature Programming

To begin programming, the ignition must be in ON, your vehicle in PARK (P), and if your vehicle has memory, you must press the appropriate memory button "1" or "2", located on the driver's door panel, prior to programming. The display will show either "1" or "2", depending on which was selected. Press the INFO button one or more times until the FEATURE PROGRAMMING prompt appears on the DIC display. Press the ON/OFF button to enter FEATURE PROGRAMMING. To exit, press the INFO RESET or INFO buttons.

Remote Recall Memory (If Equipped)

To enter feature programming, follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the REMOTE RECALL MEMORY prompt appears. To turn the feature on, press the ON/OFF button until ON is displayed on the DIC. The seat and mirror memory settings that have been previously programmed can be recalled by pressing the unlock button on the remote keyless entry transmitter. The steering column will move when the key is inserted in the ignition and turned to ON. To turn the feature off, press the ON/OFF button until OFF is displayed.

Key in Recall Memory (If Equipped)

To enter feature programming, follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the KEY IN RECALL MEMORY prompt appears on the DIC display. To turn the feature on, press the ON/OFF button until ON appears. The seat and mirror memory settings that have been previously programmed will be recalled when the key is inserted in the ignition. The steering column will move when the key is turned to ON. To turn the feature off, press the ON/OFF button until OFF appears.

Auto Exit Seat (If Equipped)

To enter feature programming, follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the AUTO EXIT SEAT prompt shows on the DIC display. This feature will move the seat to the driver's exit position when the key is turned out of ON and the driver's door is opened. To turn this feature on, press the ON/OFF button until ON appears on the DIC. To turn this feature off, press the ON/OFF button until OFF shows.

Auto Exit Steering Wheel (If Equipped)

Press the down arrow on the INFO button one or more times until the AUTO EXIT STRG WHEEL prompt appears on the DIC display. This feature will move the column to the driver's exit position when the key is turned to OFF and the driver's door is opened.

Remote Confirmation

This personalization feature allows the driver to program the parking lamps to flash or to remain off when the lock or unlock buttons on the remote keyless entry transmitter are pressed and the horn to sound when the lock button on the remote keyless entry transmitter is pressed. Press the INFO button one or more times until the FEATURE PROGRAMMING prompt appears on the DIC display. Press the ON/OFF button to enter FEATURE PROGRAMMING. To exit, press the INFO RESET button.

Lights Flash at Unlock

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the LIGHTS FLASH AT UNLOCK prompt appears. To turn this feature on, press the ON/OFF button until ON is displayed on the DIC. If all the doors are closed, the parking lamps will flash twice when the unlock button on the remote keyless entry transmitter is pressed. The lamps will not flash if the manual parking lamps or headlamps are active. To turn the feature off, press the ON/OFF button until the OFF prompt appears.

Lights Flash at Lock

To enter feature programming, follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the LIGHTS FLASH AT LOCK prompt appears on the DIC display. To turn the feature on, press the ON/OFF button until ON appears. If all the doors are closed, the parking lamps will flash once when the lock button on the remote keyless entry transmitter is pressed. To turn the feature off, press the ON/OFF button until OFF appears.

This feature will not work if any door is open.

Horn Sounds at Lock

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the HORN SOUNDS AT LOCK prompt appears on the DIC display. To turn the feature on, press the ON/OFF button until ON appears. If all the doors are closed, the horn will sound once when the lock button on the remote keyless entry transmitter is pressed. To turn the feature off, press the ON/OFF button until OFF appears.

This feature will not work if any door is open.

Exterior Lights at Unlock

This personalization feature enables the driver to program the exterior lamps to turn on or to remain off when using the remote keyless entry transmitter to unlock the vehicle.

During dark or night conditions, if exterior lighting is selected, the parking lamps, taillamps, reverse lamps, high-beam headlamps, etc. will turn on for about 20 seconds or until a door is opened, the key is turned out of OFF or the remote keyless entry transmitter is used to lock the vehicle.

Press the INFO button one or more times until the FEATURE PROGRAMMING prompt appears on the DIC display. Press the ON/OFF button to enter FEATURE PROGRAMMING. To exit, press the INFO RESET button. Press the down arrow on the INFO button one or more times until the EXT LIGHTS AT UNLOCK prompt appears.

To turn the feature on, press the ON/OFF button until ON is displayed. To turn the feature off, press the ON/OFF button until OFF is displayed.

Doors Lock in Gear

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the DOORS LOCK IN GEAR prompt appears. This feature will automatically lock all doors when the vehicle is shifted out of PARK (P) and all doors are closed. To turn the feature on, press ON/OFF until ON is displayed on the DIC. To turn the feature off, press ON/OFF until OFF is displayed.

Driver Unlock in PARK (P)

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the DRIVER UNLOCK IN PARK (P) prompt appears. This feature will automatically unlock only the driver's door when the vehicle is shifted into PARK (P). To turn the feature on, press ON/OFF until ON is displayed on the DIC. To turn the feature off, press ON/OFF until OFF is displayed.

Driver Unlock Key Off

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the DOORS UNLOCK KEY OFF prompt appears. This feature will automatically unlock the driver's door when the ignition key is turned to OFF. To turn the feature on, press ON/OFF until ON is displayed on the DIC. To turn the feature off, press ON/OFF until OFF is displayed.

Doors Unlock in PARK (P)

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the DOORS UNLOCK IN PARK prompt appears. This feature will automatically unlock all doors when the vehicle is shifted into PARK (P). To turn the feature on, press ON/OFF until ON is displayed on the DIC. To turn the feature off, press ON/OFF until OFF is displayed.

Doors Unlock Key Off

To enter feature programming follow the instructions listed previously, then press the down arrow on the INFO button one or more times until the DOORS UNLOCK KEY OFF prompt appears. This feature will automatically unlock all doors when the ignition key is turned to OFF. To turn the feature on, press ON/OFF until ON is displayed on the DIC. To turn the feature off, press ON/OFF until OFF is displayed.

Mirror to Curb In Reverse (If Equipped)

Press the down arrow on the INFO button one or more times until the MIRROR TO CURB IN REV prompts appears on the DIC display. This feature will move the passenger's outside rearview mirror to a curb view position when the shifter is placed in REVERSE (R) and it will return the mirror to the last known driving position when the shifter is moved out of REVERSE (R). To turn this feature on, press the ON/OFF button until ON is displayed on the DIC. To turn the feature off, press the ON/OFF button until OFF is displayed. For more information, see "Curb View Assist Mirror" in the Index.

Driver's Names Set/Recall (If Equipped)

After the FEATURE PROGRAMMING prompt is displayed on the DIC and the ON/OFF button is pressed, the prompts DRIVER NO 1 or DRIVER NO 2 will appear. These prompts correspond to which remote keyless entry transmitter button or memory recall button has been pressed on the driver's door armrest. You may have your name and a second driver's name displayed here, replacing the prompts DRIVER NO 1 and DRIVER NO 2. A dealership can program your vehicle to display the names you want. The names will appear whenever the key is turned to ON only if remote keyless entry transmitters 1 or 2 are used to enter the vehicle or buttons 1 or 2 on the driver's door are pressed.

Comfort Controls and Radio System Personalization

These features allow both drivers to personalize their own climate control settings as well as their radio settings. For more information, see “Climate Control Personalization” and “Radio Personalization” in the Index.

Continuous Variable Road Sensing Suspension (CVRSS) (If Equipped)

The CVRSS automatically adjusts the ride of your vehicle. Automatic ride control is achieved through a computer used to control and monitor the suspension system. The controller receives input from various sensors to determine the proper system response. If the controller detects a problem within the system, the DIC will display a SERVICE SUSPENSION SYS message. If this message appears, have your vehicle serviced at your dealership.

Oil Life Indicator

This feature lets you know when to change the engine oil. It’s based on the engine oil temperatures and your driving patterns. To see the display, press the INFO button several times until ENGINE OIL LIFE appears. If you see 99% ENGINE OIL LIFE, 99 percent of your current oil life remains.

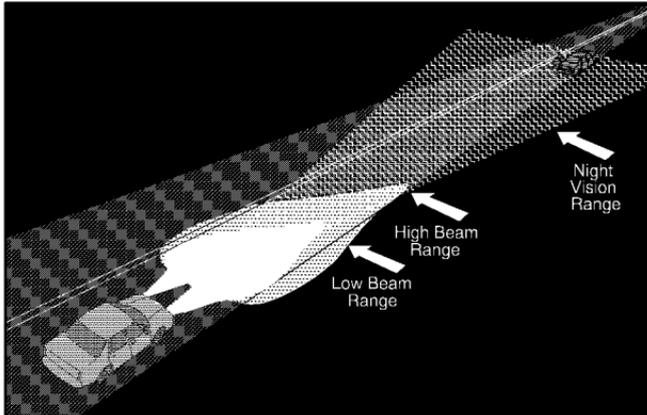
The DIC may display a CHANGE ENGINE OIL message. Always keep a written record of the mileage and date when you changed your oil. For more information, see the Maintenance Schedule booklet. If you see CHANGE ENGINE OIL, it means the oil life is gone and you should change the oil right away. The system doesn’t check *how much* oil you have, so you’ll still have to check for that. To see how, see “Engine Oil” in the Index.

When the oil is changed, you’ll need to reset the system. See “Oil Life Indicator, How to Reset” in the Index.

Night Vision System (Option)

The Night Vision System can help you see better when you drive at night. The system works by sensing heat given off by objects in its field of view. Warmer objects, such as pedestrians, animals and other moving vehicles, will appear whiter. Colder objects, such as the sky, signs and parked vehicles, will appear darker.

Use this system as an aid to help you in seeing objects beyond the headlamps. Do this by occasionally glancing at the image as you would a rearview mirror. Do not stare at the image.



The Night Vision System can be operated if:

- The brightness control is in any position except OFF.
- It is dark enough outside.
- The headlamps or foglamps (if equipped) are on.
- The ignition is turned to ON.



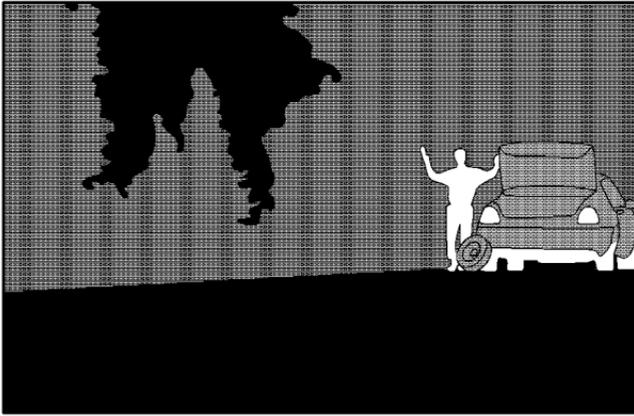
The controls are located to the left of and below the steering wheel. They are used to adjust the brightness and location of the image. Adjust the IMAGE control so the image is as low as possible while remaining visible.

Slide the dimmer control until the image is no brighter than necessary to clearly and comfortably see the image.

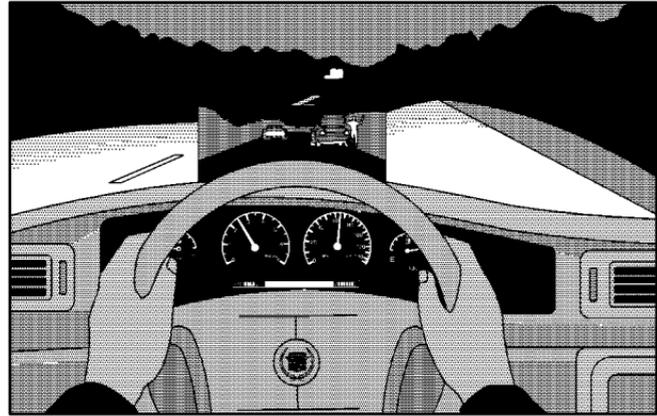
When the system comes on, you'll see the Night Vision System symbol in the image. After about one minute, you should see the view of the road ahead. If you don't see the image after about two minutes (on cold days it may take longer for the image to display), there may be something wrong with the system. See your dealer for service.

 **CAUTION:**

If the Night Vision System image is too bright, or too high in your field of view, it may take you more time to see things you need to see when it's dark outside. Be sure to keep the image dim and placed low in your field of view.



The Night Vision System image appears as a “heat image” that looks something like a black and white photographic negative. It appears in front of the driver just above the front edge of the hood.



Remember that the Night Vision System can only help you see objects that are warmer or colder than the surroundings. It can't sense things like brake lights, turn signals or emergency flashers, traffic lights or signs.

In dry, clear weather, the system can see pedestrians, animals and the direction of the road ahead. In light rain, light snow or light fog the image may not be as clear and you may not be able to see the direction of the road ahead. In more severe weather conditions, the image may be unclear and not usable.

 **CAUTION:**

Don't use the Night Vision System to replace your normal view of the road ahead. It can't tell you how far away things are. It senses only warmer or colder objects, not all objects. Driving by staring at the image might cause you not to see important objects in the road ahead. If you don't see something in time, you could have a crash in which you and others could be injured. Use the Night Vision System only as a driving aid.

It is also important to keep your windshield, the HUD (Head-Up Display for the Night Vision System) lens and the camera lens clean. If you do not keep everything clean, system performance may be affected. The HUD system is located on the driver's side of the instrument panel, next to the windshield and the camera is located behind the center of the front grille.

Use only household glass cleaner and a soft cloth. Wipe gently and dry thoroughly.

NOTICE:

Be careful not to scratch the HUD or camera lenses when cleaning. Use only household glass cleaner and a soft cloth. Wipe gently and dry thoroughly. Also, do not spray glass cleaner directly on the HUD lens located inside your vehicle, because the cleaner could leak inside the unit and cause damage.

The camera must also be aligned to work correctly. If the camera needs adjustment, see your dealer. Do not attempt to adjust the camera yourself.

Navigation (Option)



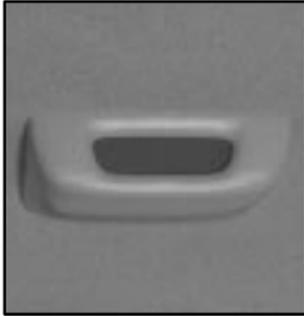
Navigation Display Controls

The display screen is located in the center on the instrument panel. There are eight “hard” buttons and a touch sensitive screen.

Your vehicle may be equipped with a turn by turn navigation guidance system that includes a CD ROM map media covering nine regional areas throughout the contiguous United States. In addition, the system includes intersection and freeway entrances, route planning, a programmable address book, points of interest, a list of restaurants, emergency phone numbers, and a list of hotels and motels for all of the major cities on each regional CD. The navigation system can also communicate with the radio data system to receive broadcast announcements on traffic, weather information and emergency alert communications. For more information on how to use this system, see “Navigation” supplement.

Ultrasonic Rear Parking Assist (URPA) (Option)

Ultrasonic Rear Parking Assist can help you to determine how close an object is to your rear bumper within a given area, making parking easier.



The URPA display is located inside the vehicle, above the rear window. It has three color-coded lights that can be seen through the rearview mirror or by turning around.

How the System Works

URPA comes on automatically when the shift lever is moved into REVERSE (R) and the vehicle speed is less than 3 MPH (5 km/h). When the system comes on, the three lights on the display will illuminate to let you know that the system is working. URPA senses how close your vehicle is to an object. The distance is determined by the four ultrasonic sensors located on the rear bumper. When shifting into REVERSE (R) and an object is detected, one of the following will occur:



amber/amber/red lights flashing
& continuous chime

----- 1 ft. (0.3 m)

amber/amber/red lights &
continuous chime

----- 20 in. (0.5 m)

amber/amber lights

----- 40 in. (1.0 m)

amber light

----- 5 ft. (1.5 m)

A chime will sound the first time an object is detected.

URPA can detect objects 3 inches (7.6 cm) and wider, and at least 10 inches (25.4 cm) tall, but it cannot detect objects that are above trunk level. In order for the rear sensors to recognize an object, it must be within operating range.

If the URPA system is not functioning properly, the display will flash red, indicating that there is a problem. The light will also flash red while driving if a trailer is attached to your vehicle, or a bicycle or object is on the back of, or hanging out of your trunk. The light will continue to flash until the trailer or the object is removed and your vehicle is driven forward at least 15 mph (25 km/h). It may also flash red if the ultrasonic sensors are not kept clean. So be sure to keep your rear bumper free of mud, dirt, snow, ice and slush or the system may not work properly. If after cleaning the rear bumper and driving forward at least 15 mph (25 km/h), the display continues to flash red, see your dealer. It may also flash red if your vehicle is moving in REVERSE (R) at a speed greater than 3 mph (5 km/h). Other conditions that may affect system performance include things like the vibrations from a jackhammer or the compression of air brakes on a very large truck.

As always, drivers should use care when backing up a vehicle. Always look behind you, being sure to check for other vehicles, obstructions and blind spots. For cleaning instructions, see “Cleaning Your Vehicle” in the Index.



Section 3 Comfort Controls and Audio Systems

In this section, you'll find out how to operate the comfort control and audio systems offered with your vehicle. Be sure to read about the particular systems supplied with your vehicle.

3-2	Comfort Controls	3-28	AM-FM Stereo with Cassette Tape and MiniDisc Player with Radio Data Systems (RDS) and Digital Signal Processing (DSP) (If Equipped)
3-2	Climate Control Panel	3-38	Radio Data Systems (RDS) Program Type (PTY) Selections
3-6	Electronic Solar Sensor	3-39	Navigation/Radio System (Option)
3-6	Air Conditioning	3-39	CD Adapter Kits
3-6	Heating	3-43	Radio Personalization with Home and Away Feature (If Equipped)
3-7	Defogging and Defrosting	3-43	Theft-Deterrent Feature
3-7	Rear Window Defogger	3-44	Audio Steering Wheel Controls
3-8	Rear Climate Control	3-45	Understanding Radio Reception
3-9	Ventilation System	3-45	Tips About Your Audio System
3-10	HVAC Steering Wheel Controls	3-46	Care of Your Cassette Tape Player
3-10	Climate Control Personalization (If Equipped)	3-48	Care of Your Compact Discs
3-11	Audio Systems	3-48	Care of Your Compact Disc Player
3-11	Setting the Clock	3-48	Diversity Antenna System
3-11	AM-FM Stereo with Cassette Tape Player		
3-15	AM-FM Stereo with Cassette Tape and Compact Disc Player (If Equipped)		
3-19	AM-FM Stereo with Cassette Tape and Compact Disc Player with Radio Data Systems (RDS) and Digital Signal Processing (DSP) (If Equipped)		

Comfort Controls

This section tells you how to make your air system work for you.

With this system, you can control the heating, cooling and ventilation in your vehicle. Your vehicle also has a flow-through ventilation system described later in this section.

Climate Control Panel



Fan Button

The button with the fan symbol adjusts the fan speed. Press the up arrow to increase fan speed and the down arrow to decrease fan speed.

Driver's Side Temperature Knob

The knob adjusts the air temperature coming through the system. Turn the knob clockwise to increase the temperature and counterclockwise to decrease the temperature. Press the knob to turn the system off.

Passenger's Side Temperature Button

With this feature, the right front passenger can control the temperature of air for his/her own zone. The passenger can select a warmer or cooler temperature from the driver's setting.

To turn the system on, press the PASS/TEMP button. Press the up arrow to increase the temperature and press the down arrow to decrease the climate setting. Pressing the PASS/OFF button will turn off the dual-zone function.

Rear Passenger Climate Control

With this feature, the rear passenger (s) can control the temperature of the air for the rear compartment.

To adjust the direction of the air flow, press the MODE button, to adjust the blower speed, press the fan symbol button and to adjust the temperature, press the TEMP button. The driver can also override the system and select a PASS OFF button to turn off the rear climate controls. See "Rear Climate Control" later in this section.

Outside Temperature Display

The outside temperature is always displayed when your vehicle is running. You can change it from Fahrenheit to Celsius by pressing the ENG/MET (English/metric) button on the left side of the instrument panel cluster.

The outside temperature sensor is located near the front grille. The sensor can be affected by road or engine heat during idling, slow driving or when the engine is first started after a short trip. In order to ensure proper automatic climate control operation, the outside air temperature display may not update as quickly as expected. This is to allow the air surrounding the outside temperature sensor to be as close to the actual outside conditions as possible. This is determined by how much time has elapsed since the vehicle has been turned off and by vehicle speed.

Mode Button

Press the MODE button to deliver air through the floor, middle or windshield outlets. The system will stay in the selected mode until the MODE button is pressed again. Press the up or down arrow to cycle through the available modes.

Automatic Operation

When the system is set for automatic operation, sensors will control the air delivery mode. Air will come from the floor, middle or windshield outlets. The fan speed will vary as the system maintains the selected temperature setting.

Be careful not to put anything over the solar sensor located in the middle of the instrument panel near the windshield. This sensor is used by the automatic system to regulate temperature.

To find your comfort zone, start with the 75°F (24°C) setting and allow about 30 minutes for the system to regulate. Turn the knob to adjust the temperature if necessary. If you choose 60°F (16°C), the system will remain at that maximum cooling setting and will not regulate fan speed. If you choose the temperature of 90°F (32°C), the system will remain at that maximum heating setting and will not regulate fan speed. Choosing either maximum setting will not cause the system to heat or cool any faster.

With the automatic setting, the air conditioning compressor automatically cycles when needed to cool the air. In cold weather, when the system senses the need for heat, the airflow will be directed out the floor outlets. As the interior temperature approaches a desired setting, the blower speed will decrease. To maintain interior comfort, the airflow may move to the instrument panel air outlets and floor outlets (bi-level mode). On bright sunny days in cold weather, the airflow may come out of the air conditioning outlets (AC mode) to maintain comfort and prevent stuffiness.

If your vehicle is sitting out on a hot day and you have it set on AUTO, the air will first flow out the floor air outlets for a few seconds. That is normal. This is to expel hot air from the air outlets. As the air is cooled, the airflow will move through the air conditioning outlets. If you start your vehicle with the fan setting on HI, it will skip the air conditioning purge.

To avoid blowing cold air in cold weather, the system will delay turning on the fan until warm air is available. The length of delay depends on the outside air temperature, engine coolant temperature or the time since the engine was last started. As the coolant warms up, the blower fan speed will gradually increase and air will flow from the heater outlets, with some airflow to the windshield to prevent fogging under most normal conditions.

If you leave your vehicle, the system will remember the control setting the next time you start your engine, except for recirculation and defrost. Each ignition cycle cancels recirculation, whereas, FRONT DEFROST will change to auUse only household glass cleaner and a soft cloth. Wipe gently and dry thoroughly. automatic operation when the ignition is shut off and then turned back on.

Manual Operation

You may manually adjust the air delivery mode or fan speed.



AC: This setting directs airflow through the four instrument panel outlets.



BI-LEVEL: This setting directs air into your vehicle in two ways. Cool air is directed to the upper portion of your body through the four instrument panel outlets while warmed air is directed to the floor.



HEATER/DEFROST: This setting directs air to the floor outlets and toward the windshield.



HEATER: This setting directs warmed air through the floor outlets. Some warm air is diverted to the windshield to minimize fogging.

 **DEFROST:** Press this button to quickly remove fog or frost from the windshield. This setting sends most of the airflow to the windshield with only a small amount to the floor outlets.

 **FAN SPEEDS:** Press the AUTO. At this setting, the fan speed is automatically controlled. If it is cold outside, the blower may not run in the maximum high fan speed right away. The system checks the temperature of the engine coolant to assure it is warm enough to provide heat. When the engine coolant is warm, the controller allows the fan to gradually increase to a higher speed. This prevents cold air from blowing into the passenger compartment.

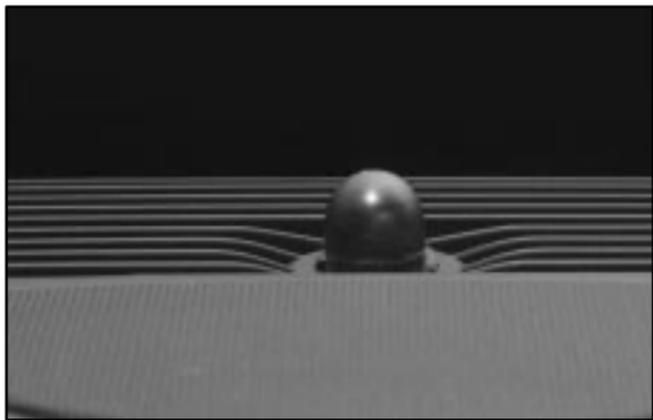
OFF: Press the knob to turn the system off. Fresh air will continue to flow through the vehicle, and the system will try to maintain the previously set temperature. The outside temperature will show on the display when the system is OFF.

AC: Press this button to turn the air conditioning on and off. The system will cool and dehumidify the air inside the vehicle. In the AUTO mode the air conditioning compressor only operates when the system determines it is needed. The display will show A/C OFF when the air conditioning is off.

 **RECIRCULATION:** Press this button to limit the amount of fresh air entering your vehicle. This is helpful when you are trying to cool the air quickly or limit odors entering your vehicle. In the AUTO mode, the system will use recirculation as necessary to cool the air. Pressing the recirculation button will change the operation to a manual mode and the air will recirculate non-stop. Press this button again to turn off the recirculation feature.

If you notice the windows fogging, press the recirculation button to exit the recirculation mode.

Electronic Solar Sensor



The sensor monitors the sun's solar radiation and is located on top of the instrument panel near the windshield. The ECC panel uses this information to automatically make the necessary temperature and airflow adjustments to maintain your comfort.

Air Conditioning

On hot days, open the windows long enough to let hot inside air escape. This reduces the time it takes for your vehicle to cool down. Then keep your windows closed for the air conditioner to work its best.

Press the AUTO button or the TEMP knob to turn the system on. The system will cool and dehumidify the air inside the vehicle. Also while in the AUTO mode, the system will use recirculation as necessary to cool the air. You may also need to adjust the interior temperature and the fan speed as needed.

When the air conditioner is on, you may sometimes notice slight changes in your vehicle's engine speed and power. This is normal because the system is designed to cycle the compressor on and off to keep the desired temperature.

Heating

Press the MODE button to select heater. Adjust the interior temperature to a comfortable level and if the fan speed needs adjusting, press the up or down arrow.

Outside air will be brought in and sent through the floor, air conditioning or bi-level outlets (depending on the condition). The heater works best if you keep your windows closed while using it.

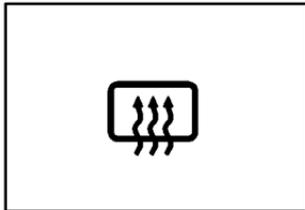
Defogging and Defrosting

On cool, humid days, use defog HEATER/DEFROST to keep the windshield and side windows clear. Use defrost to remove fog or ice from the windshield quickly in extremely humid or cold conditions.

Press the MODE button to select DEFROST. Adjust the fan speed by pressing the fan button up or down. If you select DEFROST from AUTO, the system will control the fan speed. The temperature also needs to be adjusted by turning the TEMP knob.

RECIRCULATION is not available in the defrost or defog modes.

Rear Window Defogger



The lines you see on the rear window warm the glass. Press this button to turn on the rear defogger. With it, the rear window and both outside rearview mirrors are heated.

The system will automatically shut off after 10 minutes of use. If you turn it on again, the defogger will operate for about five minutes. However, if your vehicle is traveling above 30 mph (48 kph) the system will not shut off. You can also turn the defogger off by turning off the ignition or by pressing the button again.

Do not attach a temporary vehicle license, tape or decals across the defogger grid on the rear window.

NOTICE:

Don't use a razor blade or something else sharp on the inside of the rear window. If you do, you could cut or damage the warming grid or the integrated rear window antenna, and the repairs wouldn't be covered by your warranty.

Rear Climate Control



Your vehicle is equipped with a rear climate control. With this system, the rear passengers can control the

temperature of the air flow for his/her own zones. The climate control has three buttons:

Mode: Press this button to adjust the direction of the airflow. Press again to use the AUTO adjust mode and let the system decide for you.

Fan: Press the button with the fan symbol on it to adjust the blower speed.

Temp: Press this button to adjust the temperature.

The system also has a front AUTO button that can automatically change the temperature of the rear seating area, based on information from the front system. A PASS-OFF button located on the front climate control panel also allows the driver to turn off the rear passenger seat controls from the front seat.

Ventilation System

Your vehicle's flow-through ventilation system supplies outside air into the vehicle when it is moving. Outside air will also enter the vehicle when the heater or the air conditioning fan is running.



The front outlets are located in the center and at each side of the instrument panel. You can adjust the direction of airflow by moving the center control levers or you can stop the airflow by moving the lever located on each side of the outlets downward.

Ventilation Tips

- Keep the hood and front air inlet free of ice, snow or any other obstruction (such as leaves). The heater and defroster will work far better, reducing the chance of fogging the inside of the windows.
- Keep the air path under the front seats clear of objects. This helps circulate air throughout your vehicle.

Passenger Compartment Air Filter

This ventilation system includes an air filter that helps to remove dust, pollen, etc. from the air flowing into your vehicle. A restriction in the airflow coming into the passenger compartment could be the result of dirt in the filter. For more information, see “Passenger Compartment Air Filter Replacement” in the Index. Also see the Maintenance Schedule booklet for when to change the filter.

HVAC Steering Wheel Controls



Some heating and cooling controls can be adjusted at the steering wheel. Other touch controls operate some audio controls. See “Audio Steering Wheel Controls” in the Index.

FAN SPEED: Press the up arrow lever to increase the fan speed and the down arrow lever to decrease fan speed.

TEMP: Press the up arrow lever to increase the temperature and the down arrow lever to decrease temperature.

Climate Control Personalization (If Equipped)

With this feature, your vehicle will recall the latest climate control settings as adjusted the last time your vehicle was operated. This feature allows two different drivers to store and recall their own climate control settings. The settings recalled by the climate control system are determined by which remote keyless entry transmitter (“1” or “2”) was used to enter the vehicle. The number on the back of the remote keyless entry transmitter corresponds to driver 1 or to driver 2. After the unlock button is pressed on the remote keyless entry transmitter or the ignition key is placed in the ignition (the ignition must be turned to OFF), the climate control settings will automatically adjust to where they were last set. The settings can also be changed by briefly pressing the memory seat buttons 1 or 2 located on the driver’s door.

Audio Systems

Your audio system has been designed to operate easily and give years of listening pleasure. You will get the most enjoyment out of it if you acquaint yourself with it first. Find out what your audio system can do and how to operate all its controls, to be sure you're getting the most out of the advanced engineering that went into it.

Setting the Clock

Press and hold HR or MN until the time display begins to change. Release the button as you get close to the correct time. The time may be set anytime the clock is displayed. There is a two-second delay before the clock goes into time-set mode.

AM-FM Stereo with Cassette Tape Player



Playing the Radio

PWR/VOL: Press this knob lightly to turn the system on. Press the knob again to turn the system off. To increase volume, turn the knob clockwise. Turn it counterclockwise to decrease volume.

HR or MN: Display the time with the ignition off by pressing this button.

SOURCE: Press this button to select a source. Sources include cassette and compact disc. The audio source must be loaded to play. Available loaded sources are shown on the display. If a source is being used, it will be underlined on the display. If none of the audio sources are loaded, NO SOURCE LOADED will appear on the display. Press this button again or press BAND to switch back to the radio.

MUTE: Press this button to silence the system. Press it again to turn on the sound.

Finding a Station

BAND: Press this button to select AM, FM1 or FM2.

TUNE-SEEK: When this button is pressed it has two positions. Press this button to the first position to manually tune to higher or lower stations. If this button is held at the first position for a few seconds, the radio will continue tuning until this button is released. Press this button to the second position and release to seek to the next higher or lower radio station.

SCAN: Press this button for less than two seconds to scan radio stations. The radio will go to a station, stop for five seconds, then go on to the next station. Press this button again to stop scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. You can set up to 18 stations (six AM, six FM1 and six FM2). Just:

1. Turn the radio on.
2. Press BAND to select AM, FM1 or FM2.
3. Tune in the desired station.
4. Press and hold one of the six numbered buttons for more than two seconds until you hear a beep. Whenever you press that numbered button for less than two seconds, the station you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your radio presets because the radio remembers them.

PRESET SCAN: Press and hold SCAN for more than two seconds until you hear a beep to listen to each of your preset stations for five seconds. The radio will go to the first preset station stored on your pushbuttons, stop for five seconds, then go on to the next preset station. Press SCAN again to stop scanning. If a preset station has weak reception, the radio will not stop at the preset station.

Setting the Tone

TONE: Press and release this button until the desired tone control (BASS or TREBLE) is found. The radio keeps separate tone settings for each band, each preset and each source.

LEVEL: After selecting the desired tone control, press the plus (+) or minus (-) symbol on this button to select the desired level.

To save the tone settings for your presets, press and hold the numbered button for the desired preset for more than two seconds until you hear a beep.

Adjusting the Speakers

 **SPEAKER:** Press and release this button until the desired BALANCE or FADE control is found.

LEVEL: After selecting the desired BALANCE or FADE control, press the plus (+) or minus (-) symbol on this button to select the desired level.

Playing a Cassette Tape

With the radio on, insert a cassette tape. The tape will begin playing as soon as it is inserted. When one side of your cassette tape is done playing, auto reverse plays the other side of your cassette tape. Cassette tapes may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a cassette tape when the ignition is off, first press the eject button.

While the tape is playing, use the VOL, TONE, LEVEL, and SPEAKER controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show an underlined tape symbol. TAPE PLAY will appear on the display when a tape is playing, with an arrow to indicate which side of the tape is playing.

If an error occurs while trying to play a cassette tape, it could be that:

- The cassette tape is tight and the cassette player cannot turn the hubs of the tape. Hold the cassette tape with the open end down and try turning the right hub counterclockwise with a pencil. Flip the tape over and repeat. If the hubs do not turn easily, your cassette tape may be damaged and should not be used in the player. Try a new tape to be sure your player is working properly.
- The cassette tape is broken. (Check to see if your tape is broken. Try a new tape.)

RW: Press the left arrow to rewind the tape rapidly. The radio will play while the tape rewinds. You may use your station pushbuttons to tune to another radio station while in RW mode. Press the left arrow again to return to playing speed.

FF: Press the right arrow to fast forward to another part of the tape. The radio will play while the tape advances. You may use your station pushbuttons to tune to another radio station while in FF mode. Press the right arrow again to return to playing speed.

TUNE-SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the tape. Your tape must have at least three seconds of silence between each selection for TUNE-SEEK to work. The sound will mute while seeking.

SCAN: Press this button to listen to selections for a few seconds. The tape will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

SIDE: Press this button to change the side of the tape that is playing.

△ EJECT: Press the upward triangle button to the right of the cassette tape player to remove a tape. The radio will play. Eject may be activated with the radio off and/or the ignition off.

CLEAN TAPE: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold the eject button for three seconds to reset the CLEAN TAPE indicator.

Your cassette tape player automatically reduces background noise from tapes. Dolby Noise Reduction is manufactured under a license from Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Auto CrO₂ allows the cassette tape player to adjust to the type of cassette tape for clearer sound for CrO₂ cassette tapes.

AM-FM Stereo with Cassette Tape and Compact Disc Player (If Equipped)



Playing the Radio

PWR/VOL: Press this knob lightly to turn the system on. Press the knob again to turn the system off. To increase volume, turn the knob clockwise. Turn it counterclockwise to decrease volume.

HR or MN: Display the time with the ignition off by pressing this button.

SOURCE: Press this button to select a source. Sources include cassette and compact disc. The audio source must be loaded to play. Available loaded sources are shown on the display. If a source is being used, it will be underlined on the display. If none of the audio sources are loaded, NO SOURCE LOADED will appear on the display. Press this button again or press BAND to switch back to the radio.

MUTE: Press this button to silence the system. Press it again to turn on the sound.

Finding a Station

BAND: Press this button to select AM, FM1 or FM2.

TUNE-SEEK: When this button is pressed it has two positions. Press this button to the first position to manually tune to higher or lower stations. If this button is held at the first position for a few seconds, the radio will continue tuning until this button is released. Press this button to the second position and release to seek to the next higher or lower radio station.

SCAN: Press this button for less than two seconds to scan radio stations. The radio will go to a station, stop for five seconds, then go on to the next station. Press this button again to stop scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. You can set up to 18 stations (six AM, six FM1 and six FM2). Just:

1. Turn the radio on.
2. Press BAND to select AM, FM1 or FM2.
3. Tune in the desired station.
4. Press and hold one of the six numbered buttons for more than two seconds until you hear a beep. Whenever you press that numbered button for less than two seconds, the station you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your radio presets because the radio remembers them.

PRESET SCAN: Press and hold SCAN for more than two seconds until you hear a beep to listen to each of your preset stations for five seconds. The radio will go to the first preset station stored on your pushbuttons, stop for five seconds, then go on to the next preset station. Press SCAN again to stop scanning. If a preset station has weak reception, the radio will not stop at the preset station.

Setting the Tone

TONE: Press and release this button until the desired tone control (BASS or TREBLE) is found. The radio keeps separate tone settings for each band, each preset and each source.

LEVEL: After selecting the desired tone control, press the plus (+) or minus (-) symbol on this button to select the desired level.

To save the tone settings for your presets, press and hold the numbered button for the desired preset for more than two seconds until you hear a beep.

Adjusting the Speakers

 **SPEAKER:** Press and release this button until the desired BALANCE or FADE control is found.

LEVEL: After selecting the desired BALANCE or FADE control, press the plus (+) or minus (-) symbol on this button to select the desired level.

Playing a Cassette Tape

With the radio on, insert a cassette tape. The tape will begin playing as soon as it is inserted. When one side of your cassette tape is done playing, auto reverse plays the other side of your cassette tape. Cassette tapes may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a cassette tape when the ignition is off, first press the eject button.

While the tape is playing, use the VOL, TONE, LEVEL, and SPEAKER controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show an underlined tape symbol. TAPE PLAY will appear on the display when a tape is playing, with an arrow to indicate which side of the tape is playing.

If an error occurs while trying to play a cassette tape, it could be that:

- The cassette tape is tight and the cassette player cannot turn the hubs of the tape. Hold the cassette tape with the open end down and try turning the right hub counterclockwise with a pencil. Flip the tape over and repeat. If the hubs do not turn easily, your cassette tape may be damaged and should not be used in the player. Try a new tape to be sure your player is working properly.

- The cassette tape is broken. (Check to see if your tape is broken. Try a new tape.)

RW: Press the left arrow to rewind the tape rapidly. The radio will play while the tape rewinds. You may use your station pushbuttons to tune to another radio station while in RW mode. Press the left arrow again to return to playing speed.

FF: Press the right arrow to fast forward to another part of the tape. The radio will play while the tape advances. You may use your station pushbuttons to tune to another radio station while in FF mode. Press the right arrow again to return to playing speed.

TUNE SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the tape. Your tape must have at least three seconds of silence between each selection for TUNE SEEK to work. The sound will mute while seeking.

SCAN: Press this button to listen to selections for a few seconds. The tape will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

SIDE: Press this button to change the side of the tape that is playing.

△ EJECT: Press the upward triangle button to the right of the cassette tape player to remove a tape. The radio will play. Eject may be activated with the radio off and/or the ignition off.

CLEAN TAPE: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold the eject button for three seconds to reset the CLEAN TAPE indicator.

Your cassette tape player automatically reduces background noise. Dolby Noise Reduction is manufactured under a license from Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Auto CrO₂ allows the cassette tape player to adjust to the type of cassette tape for clearer sound for CrO₂ cassette tapes.

Playing a Compact Disc

Insert a disc partway into the slot, label side up. The player will pull it in. If the ignition and the radio are on and the underlined compact disc symbol appears on the display, the disc will begin playing. Compact discs may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a disc when the ignition is off, first press the eject button.

The integral CD player can play the smaller 8 cm compact discs. Full-size compact discs and the smaller compact discs are loaded in the same manner.

If you're driving on a very rough road or if it's very hot, the disc may not play. If the disc comes out, it could be that:

- The disc is upside down.
- It is dirty, scratched or wet.
- The air is very humid. (If so, wait about an hour and try again.)

If any error occurs repeatedly or if an error can't be corrected, please contact your dealer.

RW: Press and hold the left arrow to reverse the compact disc. Release it to return to playing speed.

FF: Press and hold the right arrow to fast forward to another part of the compact disc. Release it to return to playing speed.

TUNE SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the compact disc.

SCAN: Press this button to listen to selections for a few seconds. The compact disc will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

RDM: Press this button to hear the tracks in random, rather than sequential, order. Press RDM again to turn off random play.

EJECT: Press the upward triangle button to the right of the CD player to remove a compact disc. The radio will play. Eject may be activated with the radio off and/or the ignition off.

AM-FM Stereo with Cassette Tape and Compact Disc Player with Radio Data Systems (RDS) and Digital Signal Processing (DSP) (If Equipped)



Playing the Radio

PWR/VOL: Press this knob lightly to turn the system on. Press the knob again to turn the system off. To increase volume, turn the knob clockwise. Turn it counterclockwise to decrease volume.

HR or **MN**: Display the time with the ignition off by pressing this button.

SOURCE: Press this button to select a source. Sources include cassette and compact disc. The audio source must be loaded to play. Available loaded sources are shown on the display. If a source is being used, it will be underlined on the display. If none of the audio sources are loaded, **NO SOURCE LOADED** will appear on the display. Press this button again or press **BAND** to switch back to the radio.

Finding a Station

BAND: Press this button to select AM, FM1, FM2 or weather.

TUNE SEEK: When this button is pressed it has two positions. Press this button to the first position to manually tune to higher or lower stations. If this button is held at the first position for a few seconds, the radio will continue tuning until this button is released. Press this button to the second position and release to seek to the next higher or lower radio station.

SCAN: Press this button for less than two seconds to scan radio stations. The radio will go to a station, stop for five seconds, then go on to the next station. Press this button again to stop scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. The RDS PTY mode must be off to use this mode. You can set up to 24 stations (six AM, six FM1, six FM2 and six weather). Just:

1. Turn the radio on.
2. Press **BAND** to select AM, FM1, FM2 or weather.
3. Tune in the desired station.
4. Press and hold one of the six numbered buttons for more than two seconds. Whenever you press that numbered button for less than two seconds, the station you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your radio presets because the radio remembers them.

PRESET SCAN: Press and hold **SCAN** for more than two seconds until you hear a beep to listen to each of your preset stations for five seconds. The radio will go to the first preset station stored on your pushbuttons, stop for five seconds, then go on to the next preset station. Press **SCAN** again to stop scanning. If a preset station has weak reception, the radio will not stop at the preset station.

Using RDS Mode

Your audio system is equipped with Radio Data Systems (RDS). RDS mode gives you many useful new features. When RDS is on, the radio can:

- seek only to stations with the types of programs you want to listen to,
- seek to stations with traffic announcements,
- receive announcements concerning local and national emergencies,
- receive and display messages from radio stations and
- search for a stronger station when a station is too weak for listening.

RDS features are only available for use on FM stations which broadcast RDS information.

RDS SELECT: Press this button to use the alternate RDS functions (RDS, TA, MSG, PTY and < PTY >) located on the six numbered pushbuttons. RDS SELECT: will appear on the display. The alternate RDS functions are only available when you are using the FM band of your radio.

RDS (1): With RDS off, press the RDS SELECT button, followed by this button to turn RDS on. The RDS display will turn on. You must have RDS on to use the new RDS functions. The RDS display will also turn on if one of the other RDS function buttons has been pressed on. If you are tuned to a station broadcasting RDS information, the station's call letters and Program Type (PTY) will replace the station's frequency on the display. After five seconds, the program type will be replaced on the display by the station's program type name. The program type and program type name may be the same or different. Press BAND to recall the frequency and program type displays. If the radio is tuned to a station that is not broadcasting RDS information, the station's frequency will remain on the display. While RDS is on, the radio will search for a stronger station in the network when a station gets too weak for listening. Press the RDS SELECT button, followed by this button again to turn RDS off. All RDS functions will be turned off.

REGION: You can also use the RDS button to access the region function. When an RDS station becomes weak, this function searches for a stronger station within the same network. A network can span a great distance. One network can have stations spread across a country or continent. Each network breaks down into regions. With regions, local news items like weather and traffic are available to you. When the region function is on, the radio only searches for stations in the same network and region. You can only use the region function when RDS is already on. Press the RDS SELECT button. Then press and hold the RDS button for two seconds. **REGION: ON** will appear on the display. While **REGION: ON** appears on the display, press the RDS button again to turn the region function off. **REGION: OFF** will appear on the display. The region function can be turned on again by pressing the RDS button.

TA (2): Press the RDS SELECT button, followed by this button to receive traffic announcements. The radio will turn on the TA display. **TP** will appear on the display if the tuned station broadcasts traffic announcements. You may also receive traffic announcements from stations in the network related to the tuned station. If the current tuned station does not broadcast traffic announcements, the radio will seek to a station which does. When the radio finds a station which broadcasts traffic announcements, it will stop. If no

station is found, **NONE FOUND** will appear on the display and the TA icon will turn off. When **SEEK** or **SCAN** is pressed with the traffic announcement function on, the radio will only stop at stations which broadcast traffic announcements.

While a traffic announcement plays, the radio uses a special type of volume called TA volume. To increase TA volume, turn the PWR/VOL knob clockwise. Turn it counterclockwise to decrease volume. **TA VOLUME** will appear on the display while the volume is being adjusted.

When a traffic announcement comes on the tuned radio station or a related network station, you will hear it, even if the volume is muted or a cassette tape or compact disc is playing. If the radio tunes to a related network station for a traffic announcement, it will return to the original station when the announcement is finished. If the cassette tape or compact disc player was being used, the tape or compact disc will stay in the player and resume play at the point where it stopped.

Press the RDS SELECT button, followed by this button again to turn TA off.

MSG (3): When RDS is on, if the current station has a message, MSG will appear on the display. Press the RDS SELECT button, followed by this button to see the message. If the whole message does not appear on the display, parts of the message will appear every three seconds until the message is completed. To see the parts of the message faster than every three seconds, press this button again. A new group of words will appear on the display. Once the complete message has been displayed, MSG will disappear from the display until another new MSG is received.

PTY (4): This button is used to turn on and off Program Type (PTY) seeks and scans. Press the RDS SELECT button, followed by this button. The PTY display will turn on. RDS SELECT: PTY NEWS will appear on the display for three seconds. (The PTY shown will be the last PTY selected.) Press the RDS SELECT button, followed by this button again to turn the PTY display off.

<PTY> (5) (6): With RDS on, press the RDS SELECT button, followed by < or >. The PTY display will turn on, if it is not already on. RDS SELECT: PTY NEWS will appear on the display for three seconds. (The PTY shown will be the last PTY selected.) While this message is displayed, use < and > to move up and down the PTY list. If you pause on a PTY for three seconds, PRESET PTY: NEWS will appear on the display. While this message is displayed, you can save the PTY in a preset by pressing one of the six numbered pushbuttons until you hear a beep. Allow three seconds for the message to disappear if you do not want to save the PTY in a preset. See “Radio Data Systems (RDS) Program Type (PTY) Selections” in the Index.

When the PTY display is on, press SEEK and SCAN to find radio stations of the PTY you want to listen to. The last PTY selected will be used for seek and scan modes. If a station with the selected PTY is not found, NONE FOUND will appear on the display. If both PTY and TA are on, the radio will search for stations with traffic announcements and the selected PTY.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite Program Types (PTYs). These buttons have factory PTY presets. See “Radio Data Systems (RDS) Program Type (PTY) Selections” in the Index. You can set up to 12 PTYs (six FM1 and six FM2). Just:

1. Turn PTY on.
2. Press BAND to select FM1 or FM2.
3. Tune in an RDS station with the PTY you desire.
4. Press and hold one of the six numbered buttons for more than two seconds until you hear a beep. Whenever you press that numbered button for less than two seconds, the PTY you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your RDS presets because the radio remembers them.

HR or **MN:** Press the RDS SELECT button, followed by one of these buttons to display the time for the current station. STATION TIME IS will be displayed. If a time has not been sent to the radio, NO STATION TIME will be displayed. If you have recently tuned to the station, you may need to wait a minute before the time is available to the radio. To set the clock to the

current displayed station time, press and hold HR or MN until TIME UPDATED is displayed. There is a two second delay before the time is updated. RDS mode does not have to be on to use this function, but you must be tuned to an FM RDS station.

ALERT: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. Alert announcements will come on even if RDS mode is turned off. ALERT appears on the display when an alert announcement plays. The radio uses TA volume during these announcements. To increase volume, turn the PWR/VOL knob clockwise. Turn it counterclockwise to decrease volume. TA VOLUME will appear on the display while the volume is being adjusted. When an alert announcement comes on the tuned radio station or a related network station, you will hear it, even if the volume is muted or a cassette tape or compact disc is playing. If the radio tunes to a related network station for an alert announcement, it will return to the original station when the announcement is finished. If the cassette tape or compact disc player is playing, play will stop for the announcement and resume when the announcement is finished.

Setting the Tone

TONE: Press and release this button until the desired tone control (BASS or TREBLE) is found. The radio keeps separate tone settings for each band, preset (except weather band presets) and source.

LEVEL: After selecting the desired tone control, press the plus (+) or minus (-) symbol on this button to select the desired level.

To save the tone settings for your presets, press and hold the numbered button for the desired preset for more than two seconds until you hear a beep.

Using DSP Mode

DSP: The Digital Signal Processing (DSP) feature is used to provide a choice of four different listening experiences: TALK, FRONT SEAT, AMBIENCE and SPACIOUS. DSP can be used while listening to the radio, the cassette tape player or the CD player. Press this button to turn DSP on. Press and release this button until you reach the desired selection. To turn DSP off, press and hold this button until DSP OFF appears on the display. When DSP OFF is displayed, the system will provide the best overall audio performance. The radio keeps separate DSP settings for each band (except weather band, which is always set to TALK), preset and source.

- **TALK:** This setting is used when listening to non-musical material such as news, talk shows, sports broadcasts and books on tape. TALK makes spoken words sound very clear.
- **FRONT SEAT:** This setting adjusts the audio to give the driver the best possible sound qualities. FRONT SEAT can be used at any time for any material. Rear seat passengers in the vehicle may not get the same effect.
- **AMBIENCE:** This setting is used to enhance the stereo effect.
- **SPACIOUS:** This setting is used to make the listening space seem larger.

Adjusting the Speakers

TONE: Press and release this button until the desired BALANCE or FADE control is found.

LEVEL: After selecting the desired BALANCE or FADE control, press the plus (+) or minus (-) symbol on this button to select the desired level.

Playing a Cassette Tape

With the radio on, insert a cassette tape. The tape will begin playing as soon as it is inserted. When one side of your cassette tape is done playing, auto reverse plays the other side of your cassette tape. Cassette tapes may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a cassette tape when the ignition is off, first press the eject button.

While the tape is playing, use the VOL, TONE, LEVEL and DSP controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show an underlined tape symbol. TAPE PLAY will appear on the display when a tape is playing, with an arrow to indicate which side of the tape is playing.

If an error occurs while trying to play a cassette tape, it could be that:

- The cassette tape is tight and the cassette player cannot turn the hubs of the tape. Hold the cassette tape with the open end down and try turning the right hub counterclockwise with a pencil. Flip the tape over and repeat. If the hubs do not turn easily, your cassette tape may be damaged and should not be used in the player. Try a new tape to be sure your player is working properly.

- The cassette tape is broken. (Check to see if your tape is broken. Try a new tape.)

RW: Press the left arrow to rewind the tape rapidly. The radio will play while the tape rewinds. You may use your station pushbuttons to tune to another radio station while in RW mode. Press the left arrow again to return to playing speed.

FF: Press the right arrow to fast forward to another part of the tape. The radio will play while the tape advances. You may use your station pushbuttons to tune to another radio station while in FF mode. Press the right arrow again to return to playing speed.

TUNE SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the tape. Your tape must have at least three seconds of silence between each selection for TUNE SEEK to work. The sound will mute while seeking.

SCAN: Press this button to listen to selections for a few seconds. The tape will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

SIDE: Press this button to change the side of the tape that is playing.

△ **EJECT:** Press the upward triangle button to the right of the cassette tape player to remove a tape. The radio will play. Eject may be activated with the radio off and/or the ignition off.

CLEAN TAPE: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold the eject button for three seconds to reset the CLEAN TAPE indicator. The radio will display CLEAN TAPE MSG CLEARED to show that the indicator was reset.

Your cassette tape player automatically reduces background noise. Dolby Noise Reduction is manufactured under a license from Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Auto CrO₂ allows the cassette tape player to adjust to the type of cassette tape for clearer sound for CrO₂ cassette tapes.

Playing a Compact Disc

Insert a disc partway into the slot, label side up. The player will pull it in. If the ignition and the radio are on and the underlined compact disc symbol appears on the display, the disc will begin playing. Compact discs may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a disc when the ignition is off, first press the eject button.

The integral CD player can play the smaller 8 cm compact discs. Full-size compact discs and the smaller compact discs are loaded in the same manner.

If you're driving on a very rough road or if it's very hot, the disc may not play. If the disc comes out, it could be that:

- The disc is upside down.
- It is dirty, scratched or wet.
- The air is very humid. (If so, wait about an hour and try again.)

If any error occurs repeatedly or if an error can't be corrected, please contact your dealer.

RW: Press and hold the left arrow to reverse the compact disc. Release it to return to playing speed.

FF: Press and hold the right arrow to fast forward to another part of the compact disc. Release it to return to playing speed.

TUNE SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the compact disc.

SCAN: Press this button to listen to selections for a few seconds. The compact disc will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

RDM: Press this button to hear the tracks in random, rather than sequential, order. Press RDM again to turn off random play.

EJECT: Press the upward triangle button to the right of the compact disc player to remove a compact disc. The radio will play. Eject may be activated with the radio off and/or the ignition off.

AM-FM Stereo with Cassette Tape and MiniDisc Player with Radio Data Systems (RDS) and Digital Signal Processing (DSP) (If Equipped)



Playing the Radio

PWR/VOL: Press this knob lightly to turn the system on. Press the knob again to turn the system off. To increase volume, turn the knob clockwise. Turn it counterclockwise to decrease volume.

AVC: Your system has a feature called Automatic Volume Control (AVC). With AVC, your audio system monitors the noise in the vehicle. Then, AVC automatically adjusts the volume level so that it always sounds the same to you. To use AVC, press and hold the TONE button until AUTO VOLUME CONTROL OFF appears on the display. Then press the LEVEL plus (+) symbol. AUTO VOLUME CONTROL ON will appear on the display. AVC VOLUME will appear on the display any time you adjust the volume while AVC is on. To turn AVC off, press and hold the TONE button until AUTO VOLUME CONTROL ON appears on the display. Then press the LEVEL minus (-) symbol. AUTO VOLUME CONTROL OFF will appear on the display.

HR or MN: Display the time with the ignition off by pressing this button.

SOURCE: Press this button to select a source. Sources include cassette and MiniDisc. The audio source must be loaded to play. Available loaded sources are shown on the display. If a source is being used, it will be underlined on the display. If none of the audio sources are loaded, NO SOURCE LOADED will appear on the display. Press this button again or press BAND to switch back to the radio.

Finding a Station

BAND: Press this button to select AM, FM1, FM2 or weather.

TUNE-SEEK: When this button is pressed it has two positions. Press this button to the first position to manually tune to higher or lower stations. If this button is held at the first position for a few seconds, the radio will continue tuning until this button is released. Press this button to the second position and release to seek to the next higher or lower radio station.

SCAN: Press this button for less than two seconds to scan radio stations. The radio will go to a station, stop for five seconds, then go on to the next station. Press this button again to stop scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. The RDS PTY mode must be off to use this mode. You can set up to 24 stations (six AM, six FM1, six FM2 and six weather). Just:

1. Turn the radio on.
2. Press BAND to select AM, FM1, FM2 or weather.
3. Tune in the desired station.
4. Press and hold one of the six numbered buttons for more than two seconds until you hear a beep. Whenever you press that numbered button for less than two seconds, the station you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your radio presets because the radio remembers them.

PRESET SCAN: Press and hold SCAN for more than two seconds until you hear a beep to listen to each of your preset stations for five seconds. The radio will go to the first preset station stored on your pushbuttons, stop for five seconds, then go on to the next preset station. Press SCAN again to stop scanning. If a preset station has weak reception, the radio will not stop at the preset station.

Using RDS Mode

Your audio system is equipped with Radio Data Systems (RDS). RDS mode gives you many useful new features. When RDS is on, the radio can:

- seek only to stations with the types of programs you want to listen to,
- seek to stations with traffic announcements,
- receive announcements concerning local and national emergencies,
- receive and display messages from radio stations and
- search for a stronger station when a station is too weak for listening.

RDS features are only available for use on FM stations which broadcast RDS information.

RDS SELECT: Press this button to use the alternate RDS functions (RDS, TA, MSG, PTY and <PTY >) located on the six numbered pushbuttons. RDS SELECT will appear on the display. The alternate RDS functions are only available when you are using the FM band of your radio.

RDS (1): With RDS off, press the RDS SELECT button, followed by this button to turn RDS on. The RDS display will turn on. You must have RDS on to use the new RDS functions. The RDS display will also turn on if one of the other RDS function buttons has been pressed on. If you are tuned to a station broadcasting RDS information, the station's call letters and Program Type (PTY) will replace the station's frequency on the display. After five seconds, the program type will be replaced on the display by the station's program type name. The program type and program type name may be the same or different. Press BAND to recall the frequency and program type displays. If the radio is tuned to a station that is not broadcasting RDS information, the station's frequency will remain on the display. While RDS is on, the radio will search for a stronger station in the network when a station gets too weak for listening. Press the RDS SELECT button, followed by this button again to turn RDS off. All RDS functions will be turned off.

REGION: You can also use the RDS button to access the region function. When an RDS station becomes weak, this function searches for a stronger station within the same network. A network can span a great distance. One network can have stations spread across a country or continent. Each network breaks down into regions. With regions, local news items like weather and traffic are available to you. When the region function is on, the radio only searches for stations in the same network and region. You can only use the region function when RDS is already on. Press the RDS SELECT button. Then press and hold the RDS button for two seconds. **REGION: ON** will appear on the display. While **REGION: ON** appears on the display, press the RDS button again to turn the region function off. **REGION: OFF** will appear on the display. The region function can be turned on again by pressing the RDS button.

TA (2): Press the RDS SELECT button, followed by this button to receive traffic announcements. The radio will turn on the TA display. TP will appear on the display if the tuned station broadcasts traffic announcements. You may also receive traffic announcements from stations in the network related to the tuned station. If the current tuned station does not broadcast traffic announcements, the radio will seek to a station which does. When the radio finds a station which broadcasts traffic announcements, it will stop. If no station is found, NONE FOUND will appear on the display. When SEEK or SCAN is pressed with the traffic announcement function on, the radio will only stop at stations which broadcast traffic announcements.

While a traffic announcement plays, the radio uses a special type of volume called TA volume. To increase TA volume, turn the PWR/VOL knob clockwise. Turn it counterclockwise to decrease volume. TA VOLUME will appear on the display while the volume is being adjusted.

When a traffic announcement comes on the tuned radio station or a related network station, you will hear it, even if the volume is muted or a cassette tape or MiniDisc is playing. If the radio tunes to a related network station for a traffic announcement, it will return to the original station when the announcement is finished. If the cassette tape or MiniDisc player was being used, the tape or MiniDisc will stay in the player and resume play at the point where it stopped.

Press the RDS SELECT button, followed by this button again to turn TA off.

MSG (3): When RDS is on, if the current station has a message, MSG will appear on the display. Press the RDS SELECT button, followed by this button to see the message. If the whole message does not appear on the display, parts of the message will appear every three seconds until the message is completed. To see the parts of the message faster than every three seconds, press this button again. A new group of words will appear on the display. Once the complete message has been displayed, MSG will disappear from the display until another new MSG is received.

PTY (4): This button is used to turn on and off Program Type (PTY) seeks and scans. Press the RDS SELECT button, followed by this button. The PTY display will turn on. RDS SELECT: PTY NEWS will appear on the display for three seconds. (The PTY shown will be the last PTY selected.) Press the RDS SELECT button, followed by this button again to turn the PTY display off.

< PTY > (5) (6): With RDS on, press the RDS SELECT button, followed by < or >. The PTY display will turn on, if it is not already on. RDS SELECT: PTY NEWS will appear on the display for three seconds. (The PTY shown will be the last PTY selected.) While this message is displayed, use < and > to move up and down the PTY list. If you pause on a PTY for three seconds, PRESET PTY: NEWS will appear on the display. While this message is displayed, you can save the PTY in a preset by pressing one of the six numbered pushbuttons until you hear a beep. Allow three seconds for the message to disappear if you do not want to save the PTY in a preset. See “Radio Data Systems (RDS) Program Type (PTY) Selections” in the Index.

When the PTY display is on, press SEEK and SCAN to find radio stations of the PTY you want to listen to. The last PTY selected will be used for seek and scan modes. If a station with the selected PTY is not found, NONE FOUND will appear on the display. If both PTY and TA are on, the radio will search for stations with traffic announcements and the selected PTY.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite Program Types (PTYs). These buttons have factory PTY presets. See “Radio Data Systems (RDS) Program Type (PTY) Selections” in the Index. You can set up to 12 PTYs (six FM1 and six FM2). Just:

1. Turn PTY on.
2. Press BAND to select FM1 or FM2.
3. Tune in an RDS station with the PTY you desire.
4. Press and hold one of the six numbered buttons for more than two seconds until you hear a beep. Whenever you press that numbered button for less than two seconds, the PTY you set will return.
5. Repeat the steps for each pushbutton.

When battery power is removed and later applied, you will not have to reset your RDS presets because the radio remembers them.

HR or MN: Press the RDS SELECT button, followed by one of these buttons to display the time for the current station. STATION TIME IS will be displayed. If a time has not been sent to the radio, NO STATION TIME will be displayed. If you have recently tuned to the station, you may need to wait a minute before the time is available to the radio. To set the clock to the current displayed station time, press and hold HR or MN until TIME UPDATED is displayed. There is a two second delay before the time is updated. RDS mode does not have to be on to use this function, but you must be tuned to an FM RDS station.

ALERT: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. Alert announcements will come on even if RDS mode is turned off. ALERT appears on the display when an alert announcement plays. The radio uses TA volume during these announcements. To increase volume, turn the PWR/VOL knob clockwise. Turn it counterclockwise to decrease volume. TA VOLUME will appear on the display while the volume is being adjusted. When an alert announcement comes

on the tuned radio station or a related network station, you will hear it, even if the volume is muted or a cassette tape or MiniDisc is playing. If the radio tunes to a related network station for an alert announcement, it will return to the original station when the announcement is finished. If the cassette tape or MiniDisc player is playing, play will stop for the announcement and resume when the announcement is finished.

Setting the Tone

TONE: Press and release this button until the desired tone control (BASS, TREBLE or MIDRANGE) is found. The radio keeps separate tone settings for each band, preset (except weather band presets) and source.

LEVEL: After selecting the desired tone control, press the plus (+) or minus (-) symbol on this button to select the desired level.

To save the tone settings for your presets, press and hold the numbered button for the desired preset for more than two seconds until you hear a beep.

Using DSP Mode

DSP: The Digital Signal Processing (DSP) feature is used to provide a choice of four different listening experiences: TALK, FRONT SEAT, AMBIENCE and SPACIOUS. DSP can be used while listening to the radio, the cassette tape player or the MiniDisc player. Press this button to turn DSP on. Press and release this button until you reach the desired selection. To turn DSP off, press and hold this button until DSP OFF appears on the display. When DSP OFF is displayed, the system will provide the best overall Bose performance. The radio keeps separate DSP settings for each band (except weather band, which is always set to TALK), preset and source.

- **TALK:** This setting is used when listening to non-musical material such as news, talk shows, sports broadcasts and books on tape. TALK makes spoken words sound very clear.
- **FRONT SEAT:** This setting adjusts the audio to give the front seat occupants the best possible sound qualities. FRONT SEAT can be used at any time for any material. Rear seat passengers in the vehicle may not get the same effect.
- **AMBIENCE:** This setting is used to enhance the stereo effect.
- **SPACIOUS:** This setting is used to make the listening space seem larger.

Adjusting the Speakers

TONE: Press and release this button until the desired BALANCE or FADE control is found.

LEVEL: After selecting the desired BALANCE or FADE control, press the plus (+) or minus (-) symbol on this button to select the desired level.

Playing a Cassette Tape

With the radio on, insert a cassette tape. The tape will begin playing as soon as it is inserted. When one side of your cassette tape is done playing, auto reverse plays the other side of your cassette tape. Cassette tapes may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a cassette tape when the ignition is off, first press the eject button.

While the tape is playing, use the VOL, TONE, LEVEL and DSP controls just as you do for the radio. Other controls may have different functions when a tape is inserted. The display will show an underlined tape symbol. TAPE PLAY will appear on the display when a tape is playing, with an arrow to indicate which side of the tape is playing.

If an error occurs while trying to play a cassette tape, it could be that:

- The cassette tape is tight and the cassette player cannot turn the hubs of the tape. Hold the cassette tape with the open end down and try turning the right hub counterclockwise with a pencil. Flip the tape over and repeat. If the hubs do not turn easily, your cassette tape may be damaged and should not be used in the player. Try a new tape to be sure your player is working properly.
- The cassette tape is broken. (Check to see if your tape is broken. Try a new tape.)

RW: Press the left arrow to rewind the tape rapidly. The radio will play while the tape rewinds. You may use your station pushbuttons to tune to another radio station while in RW mode. Press the left arrow again to return to playing speed.

FF: Press the right arrow to fast forward to another part of the tape. The radio will play while the tape advances. You may use your station pushbuttons to tune to another radio station while in FF mode. Press the right arrow again to return to playing speed.

TUNE-SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the tape. Your tape must have at least three seconds of silence between each selection for TUNE-SEEK to work. The sound will mute while seeking.

SCAN: Press this button to listen to selections for a few seconds. The tape will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

SIDE: Press this button to change the side of the tape that is playing.

△ EJECT: Press the upward triangle button to the right of the cassette tape player to remove a tape. The radio will play. Eject may be activated with the radio off and/or the ignition off.

CLEAN TAPE: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold the eject button for three seconds to reset the CLEAN TAPE indicator. The radio will display CLEAN TAPE MSG CLEARED to show that the indicator was reset.

Your cassette tape player automatically reduces background noise. Dolby Noise Reduction is manufactured under a license from Dolby Laboratories Licensing Corporation. Dolby and the double-D symbol are trademarks of Dolby Laboratories Licensing Corporation.

Auto CrO₂ allows the cassette tape player to adjust to the type of cassette tape for clearer sound for CrO₂ cassette tapes.

Playing a MiniDisc

Insert a disc partway into the slot, label side up. The player will pull it in. If the ignition and the radio are on and the underlined MiniDisc symbol appears on the display, the disc will begin playing. MiniDiscs may be loaded with the radio off but they will not start playing until the radio is on. If you want to insert a disc when the ignition is off, first press the eject button.

While a MiniDisc is playing, MD TRACK number will appear on the display followed by ALBUM title, then TRACK title. The display then reverts back to showing MD TRACK number.

If you're driving on a very rough road or if it's very hot, the disc may not play. If the disc comes out, it could be that:

- It is dirty, scratched or wet.
- The air is very humid. (If so, wait about an hour and try again.)

If any error occurs repeatedly or if an error can't be corrected, please contact your dealer.

RW: Press and hold the left arrow to reverse the MiniDisc. Release it to return to playing speed.

FF: Press and hold the right arrow to fast forward to another part of the MiniDisc. Release it to return to playing speed.

TUNE-SEEK: When this button is pressed, it has two positions. This button works the same, whether it is pressed to the first or second position. Press this button to seek to the next or previous selection on the MiniDisc.

SCAN: Press this button to listen to selections for a few seconds. The MiniDisc will go to a selection, stop for a few seconds, then go on to the next selection. Press this button again to stop scanning.

RDM: Press this button to hear the tracks in random, rather than sequential, order. Press RDM again to turn off random play.

△ **EJECT:** Press the upward triangle button to the right of the MiniDisc player to remove a MiniDisc. The radio will play. Eject may be activated with the radio off and/or the ignition off.

Radio Data Systems (RDS) Program Type (PTY) Selections

PTY List	Description
Adlt Hit	Adult Hits
Any	Any
Classicl	Classical
Cls Rock	Classical Rock
College	College
Country	Country
Info	Information
Jazz	Jazz
Language	Language
News	News
Nostalgia	Nostalgia
Oldies	Oldies
Personlty	Personality

PTY List	Description
Public	Public
R & B	Rhythm and Blues
Rel Musc	Religious Music
Rel Talk	Religious Talk
Rock M	Rock Music
Soft	Soft
Soft Rock	Soft Rock
Sports	Sports
Talk	Talk
Top 40	Top 40
Weather	Weather

Factory PTY Presets		
Preset	FM1	FM2
Preset 1	Adult Hits	Jazz
Preset 2	Classical	Oldies
Preset 3	News	Religious Music
Preset 4	Public	Soft Rock
Preset 5	Rock	R & B
Preset 6	Country	Top 40

Navigation/Radio System (Option)



Navigation/Radio Display and Controls

The display screen is located in the center of the instrument panel. There are eight “hard” buttons and a touch sensitive screen.

Your vehicle may be equipped with an AM-FM stereo navigation radio system that includes digital sound processing (DSP), a Radio Data System (RDS) with program “type” selections (PTY) that will seek out the kind of music you want to listen to. The radio system can also communicate with your navigation system to broadcast announcements on traffic, weather and emergency alert communications. For information on how to use this system, see “Navigation/Radio System” supplement.

CD Adapter Kits

It is possible to use a CD adapter kit with your cassette tape player after activating the bypass feature on your tape player.

To activate the bypass feature, use the following steps:

1. Turn the ignition to ON or ACCESSORY.
2. Turn the radio off.
3. Press and hold the SOURCE button for two seconds. The tape symbol on the display will flash three times, indicating the feature is active.
4. Insert the adapter.

This override routine will remain active until the eject button is pressed.

Glovebox-Mounted CD Changer

With the compact disc changer, you can play up to 6 discs continuously. Normal size discs may be played using the trays supplied in the magazine. The smaller discs (8 cm) can be played only with specially designed trays.



You must first load the magazine with discs before you can play a compact disc. Each of the 6 trays holds one disc. Load the trays from bottom to top, placing a disc in the tray label side up. If you load a disc label side down, the disc will not play and an error will occur. Repeat this procedure for loading up to 6 discs in the magazine.



Once you have loaded the discs in the magazine, slide open the door of the compact disc (CD) changer. Push the magazine into the changer in the direction of the arrow marked on top of the magazine.



Close the door by sliding it all the way to the right. When the door is closed, the changer will begin checking for discs in the magazine. This will continue for up to one and a half minutes, depending on the number of discs loaded.

To eject the magazine from the player, slide the CD changer door all the way open. Press the EJECT button and the magazine will eject. Remember to keep the door closed whenever possible to keep dirt and dust from getting inside the changer.

Whenever a CD magazine with discs is loaded in the changer, the CD changer symbol will appear on the

radio display. If the CD changer is checking the magazine for CDs, the CD symbol will flash on the display until the changer is ready to play. When a CD begins playing, a disc and track number will be displayed. The disc numbers are listed on the front of the magazine.

All of the CD functions are controlled by the radio buttons, except for ejecting the CD magazine.

PUSHBUTTONS: Press buttons one through six to go from one compact disc to another that is loaded in the changer. These pushbuttons represent the order of the discs loaded in the changer.

RW: Press and hold this button to reverse quickly through a track selection.

FF: Press and hold this button to advance quickly through a track selection.

TUNE-SEEK: Press the upward arrow to the first detent to seek to the next selection on the compact disc. If playing last track of disc, pressing the upward arrow will seek to the first track of disc. Press the downward arrow to the first detent to seek to the previous selection on the compact disc. If playing the first track of disc, pressing the downward arrow will seek to the last track of disc. The sound will mute while seeking.

SCAN: Press this button. You will hear the first few seconds of the first track on each disc. Press this button again to stop scanning. The CD will mute while scanning and SCAN will appear on the display.

RDM: Press this button to hear the tracks in random, rather than sequential, order. RDM will appear on the display. Press TUNE-SEEK while RDM is on the display to randomly seek through discs. Press RDM again to turn off random play. This feature may not be available on your radio.

SIDE: Press this button to select the next disc in the changer. Each time you press this button, LOADING will appear on the display and the disc number on the radio display will go to that of the next available CD.

SOURCE: Press this button if you have a disc loaded in the changer and the radio is on, to play a compact disc. To return to playing the radio, press BAND. Pressing source also switches between a tape or compact disc (or mini disc) if both are loaded (if equipped).

EJECT: Slide the CD changer door all the way open. Press the EJECT button and the magazine will eject.

Compact Disc Changer Errors

CD CHANGER ERROR could be displayed for the following:

- The road is too rough. The disc should play when the road is smoother.
- The disc is dirty, scratched, wet or loaded label side up.
- The air is very humid. If so, wait about an hour and try again.

If any error occurs repeatedly or if an error cannot be corrected, please contact your dealer. If your radio displays an error number, write it down and provide this information to your dealer when reporting the problem.

Radio Personalization with Home and Away Feature (If Equipped)

If DRIVER 1 (HOME or AWAY) PRESETS or DRIVER 2 (HOME or AWAY) PRESETS appears in the display when the radio is first turned on, your vehicle is equipped with this feature.

With this feature, your vehicle will recall the latest radio settings as adjusted the last time your vehicle was operated. This feature allows two different drivers to store and recall their own radio settings. The settings recalled by the radio are determined by which RKE transmitter (“1” or “2”) was used to enter the vehicle. The number on the back of the RKE transmitter corresponds to driver 1 or to driver 2. The radio settings will automatically adjust to where they were last set by the identified driver. The settings can also be recalled by briefly pressing the MEMORY seat buttons 1 or 2 located on the driver’s door.

Your radio can store home and away presets. Home and away presets allow you to use one set of preset radio settings in the area where you live, and another set when you go out of town. That way, you will not need to reprogram your presets every time you travel. With the radio off and the clock displayed, use FF and RW to select home or away presets. To select the away presets, press and hold FF for five counts until you hear a beep.

The next time the radio comes on, the away presets will be active. To select the home presets, press and hold RW for five counts until you hear a beep. The next time the radio comes on, the home presets will be active.

When battery power is removed and later applied, you will not have to reset your home radio presets because the radio remembers them. However, you will have to reset your away radio presets.

Theft-Deterrent Feature

THEFTLOCK[®] is designed to discourage theft of your radio. Your vehicle has a “built-in” theft-deterrent feature on each radio that is automatic -- there is no programming required. The radio in your vehicle cannot be used in any other vehicle. When the radio was originally installed in your vehicle at the factory, it stored the Vehicle Identification Number (VIN). Each time the ignition is turned on, the VIN is verified. If the vehicle’s VIN does not match the VIN stored in the radio, THEFTLOCK will be activated and the audio system will not play. If the radio is removed from your vehicle, the original VIN in the radio can be used to trace the radio back to your vehicle.

Audio Steering Wheel Controls



Some audio controls can be adjusted at the steering wheel. They include the following:

VOLUME: Press the up arrow lever to increase volume and the down arrow lever to decrease volume.

SELECT: When listening to the radio, press the up or down arrow lever to tune to the next or previous preset radio station. (If your vehicle is equipped with the AM-FM Stereo with Cassette Tape Player, factory presets which have not been reprogrammed with your stations will be ignored). When listening to a cassette tape, the up or down arrow lever can be used to SEEK forward and rearward through the tape. Pressing the up or down arrow lever when listening to a CD will cause the player to go to the next or previous selection. When in Radio Data Systems (RDS) Program Type (PTY) mode, the up or down arrow lever can be used to perform a PTY preset seek. PSEEK will appear on the display while the PTY preset seek is performed. The radio will seek all of the PTYs stored in presets, except for the PTY Any.

Understanding Radio Reception

AM

The range for most AM stations is greater than for FM, especially at night. The longer range, however, can cause stations to interfere with each other. AM can pick up noise from things like storms and power lines. Try reducing the treble to reduce this noise if you ever get it.

FM Stereo

FM stereo will give you the best sound, but FM signals will reach only about 10 to 40 miles (16 to 65 km). Tall buildings or hills can interfere with FM signals, causing the sound to come and go.

Weather Band (If Equipped)

Weather band is restricted to speech and the audio quality is not as good as with the AM or FM bands. Depending on location, the radio should receive one or two channels.

Tips About Your Audio System

Hearing damage from loud noise is almost undetectable until it is too late. Your hearing can adapt to higher volumes of sound. Sound that seems normal can be loud and harmful to your hearing. Take precautions by adjusting the volume control on your radio to a safe sound level before your hearing adapts to it.

To help avoid hearing loss or damage:

- Adjust the volume control to the lowest setting.
- Increase volume slowly until you hear comfortably and clearly.

NOTICE:

Before you add any sound equipment to your vehicle -- like a tape player, CB radio, mobile telephone or two-way radio -- be sure you can add what you want. If you can, it's very important to do it properly. Added sound equipment may interfere with the operation of your vehicle's engine, radio or other systems, and even damage them. Your vehicle's systems may also interfere with the operation of sound equipment that has been added improperly. So, before adding sound equipment, check with your dealer and be sure to check Federal rules covering mobile radio and telephone units.

Care of Your Cassette Tape Player

A tape player that is not cleaned regularly can cause reduced sound quality, ruined cassettes or a damaged mechanism. Cassette tapes should be stored in their cases away from contaminants, direct sunlight and extreme heat. If they aren't, they may not operate properly or may cause failure of the tape player.

Your tape player should be cleaned regularly after every 50 hours of use. Your radio may display CLN or CLEAN TAPE to indicate that you have used your tape player for 50 hours without resetting the tape clean timer. If this message appears on the display, your cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to your tapes and player. If you notice a reduction in sound quality, try a known good cassette to see if it is the tape or the tape player at fault. If this other cassette has no improvement in sound quality, clean the tape player.

The recommended cleaning method for your cassette tape player is the use of a scrubbing action, non-abrasive cleaning cassette with pads which scrub the tape head as the hubs of the cleaner cassette turn. The recommended cleaning cassette is available through your dealership (GM Part No. 12344789).

When using a scrubbing action, non-abrasive cleaning cassette, it is normal for the cassette to eject because your unit is equipped with a cut tape detection feature and a cleaning cassette may appear as a broken tape. To prevent the cleaning cassette from being ejected, use the following steps.

1. Turn the ignition to ON or ACCESSORY.
2. Turn the radio off.
3. Press and hold the SOURCE button for two seconds. The tape symbol on the display will flash three times.
4. Turn the radio on and insert the scrubbing action cleaning cassette.
5. Eject the cleaning cassette after the manufacturer's recommended cleaning time.

When the cleaning cassette has been ejected, the cut tape detection feature is active again.

You may also choose a non-scrubbing action, wet-type cleaner which uses a cassette with a fabric belt to clean the tape head. This type of cleaning cassette will not eject on its own. A non-scrubbing action cleaner may not clean as thoroughly as the scrubbing type cleaner. The use of a non-scrubbing action, dry-type cleaning cassette is not recommended.

If your vehicle is equipped with the AM-FM Stereo with Cassette Tape Player, press and hold the eject button for five seconds to reset the CLN indicator after you clean the player. The radio will display --- to show the indicator was reset.

If your vehicle is equipped with any other radio, press and hold the eject button for three seconds to reset the CLEAN TAPE indicator after you clean the player. The radio will display CLEAN TAPE MSG CLEARED to show the indicator was reset.

Cassettes are subject to wear and the sound quality may degrade over time. Always make sure the cassette tape is in good condition before you have your tape player serviced.

Care of Your Compact Discs

Handle discs carefully. Store them in their original cases or other protective cases and away from direct sunlight and dust. If the surface of a disc is soiled, dampen a clean, soft cloth in a mild, neutral detergent solution and clean it, wiping from the center to the edge.

Be sure never to touch the signal surface when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge.

Care of Your Compact Disc Player

The use of CD lens cleaner discs is not advised, due to the risk of contaminating the lens of the CD optics with lubricants internal to the CD mechanism.

Diversity Antenna System

Your AM-FM antennas are located in the front windshield and rear window. Be sure that the inside surfaces of the front windshield and rear window are not scratched and that the lines on the glass are not damaged. If the inside surfaces are damaged, they could interfere with radio reception.

NOTICE:

Do not try to clear frost or other material from the inside of the rear window with a razor blade or anything else that is sharp. This may damage the rear defogger grid and affect your radio's ability to pick up stations clearly. The repairs wouldn't be covered by your warranty.

If, when you turn on your rear window defogger, you hear static on your radio station, it could mean that a defogger grid line has been damaged. If this is true, the grid line must be repaired.

If you choose to add an aftermarket cellular telephone to your vehicle, and the antenna needs to be attached to the glass, be sure that you do not damage the grid lines for the AM-FM antennas or place the cellular telephone antenna over the grid lines.



Section 4 Your Driving and the Road

Here you'll find information about driving on different kinds of roads and in varying weather conditions. We've also included many other useful tips on driving.

4-2	Defensive Driving	4-23	City Driving
4-3	Drunken Driving	4-24	Freeway Driving
4-6	Control of a Vehicle	4-25	Before Leaving on a Long Trip
4-6	Braking	4-26	Highway Hypnosis
4-11	Steering	4-26	Hill and Mountain Roads
4-13	Off-Road Recovery	4-28	Winter Driving
4-14	Passing	4-32	Recreational Vehicle Towing
4-15	Loss of Control	4-33	Loading Your Vehicle
4-17	Driving at Night	4-35	Towing a Trailer
4-19	Driving in Rain and on Wet Roads		



Defensive Driving

The best advice anyone can give about driving is:
Drive defensively.

Please start with a very important safety device in your vehicle: Buckle up. (See “Safety Belts” in the Index.)

Defensive driving really means “be ready for anything.” On city streets, rural roads or freeways, it means “always expect the unexpected.”

Assume that pedestrians or other drivers are going to be careless and make mistakes. Anticipate what they might do. Be ready for their mistakes.

Rear-end collisions are about the most preventable of accidents. Yet they are common. Allow enough following distance. It’s the best defensive driving maneuver, in both city and rural driving. You never know when the vehicle in front of you is going to brake or turn suddenly.

Defensive driving requires that a driver concentrate on the driving task. Anything that distracts from the driving task -- such as concentrating on a cellular telephone call, reading, or reaching for something on the floor -- makes proper defensive driving more difficult and can even cause a collision, with resulting injury. Ask a passenger to help do things like this, or pull off the road in a safe place to do them yourself. These simple defensive driving techniques could save your life.

Drunken Driving

Death and injury associated with drinking and driving is a national tragedy. It's the number one contributor to the highway death toll, claiming thousands of victims every year.

Alcohol affects four things that anyone needs to drive a vehicle:

- Judgment
- Muscular Coordination
- Vision
- Attentiveness.

Police records show that almost half of all motor vehicle-related deaths involve alcohol. In most cases, these deaths are the result of someone who was drinking and driving. In recent years, over 17,000 annual motor vehicle-related deaths have been associated with the use of alcohol, with more than 300,000 people injured.

Many adults -- by some estimates, nearly half the adult population -- choose never to drink alcohol, so they never drive after drinking. For persons under 21, it's against the law in every U.S. state to drink alcohol. There are good medical, psychological and developmental reasons for these laws.

The obvious way to solve the leading highway safety problem is for people never to drink alcohol and then drive. But what if people do? How much is "too much" if the driver plans to drive? It's a lot less than many might think. Although it depends on each person and situation, here is some general information on the problem.

The Blood Alcohol Concentration (BAC) of someone who is drinking depends upon four things:

- The amount of alcohol consumed
- The drinker's body weight
- The amount of food that is consumed before and during drinking
- The length of time it has taken the drinker to consume the alcohol.

According to the American Medical Association, a 180-lb. (82 kg) person who drinks three 12-ounce (355 ml) bottles of beer in an hour will end up with a BAC of about 0.06 percent. The person would reach the same BAC by drinking three 4-ounce (120 ml) glasses of wine or three mixed drinks if each had 1-1/2 ounces (45 ml) of a liquor like whiskey, gin or vodka.



It's the amount of alcohol that counts. For example, if the same person drank three double martinis (3 ounces or 90 ml of liquor each) within an hour, the person's BAC would be close to 0.12 percent. A person who consumes food just before or during drinking will have a somewhat lower BAC level.

There is a gender difference, too. Women generally have a lower relative percentage of body water than men. Since alcohol is carried in body water, this means that a woman generally will reach a higher BAC level than a man of her same body weight when each has the same number of drinks.

The law in many U.S. states sets the legal limit at a BAC of 0.10 percent. In a growing number of U.S. states, and throughout Canada, the limit is 0.08 percent. In some other countries, it's even lower. The BAC limit for all commercial drivers in the United States is 0.04 percent.

The BAC will be over 0.10 percent after three to six drinks (in one hour). Of course, as we've seen, it depends on how much alcohol is in the drinks, and how quickly the person drinks them.

But the ability to drive is affected well below a BAC of 0.10 percent. Research shows that the driving skills of many people are impaired at a BAC approaching 0.05 percent, and that the effects are worse at night. All drivers are impaired at BAC levels above 0.05 percent. Statistics show that the chance of being in a collision increases sharply for drivers who have a BAC of 0.05 percent or above. A driver with a BAC level of 0.06 percent has doubled his or her chance of having a collision. At a BAC level of 0.10 percent, the chance of this driver having a collision is 12 times greater; at a level of 0.15 percent, the chance is 25 times greater!

The body takes about an hour to rid itself of the alcohol in one drink. No amount of coffee or number of cold showers will speed that up. "I'll be careful" isn't the right answer. What if there's an emergency, a need to take sudden action, as when a child darts into the street? A person with even a moderate BAC might not be able to react quickly enough to avoid the collision.

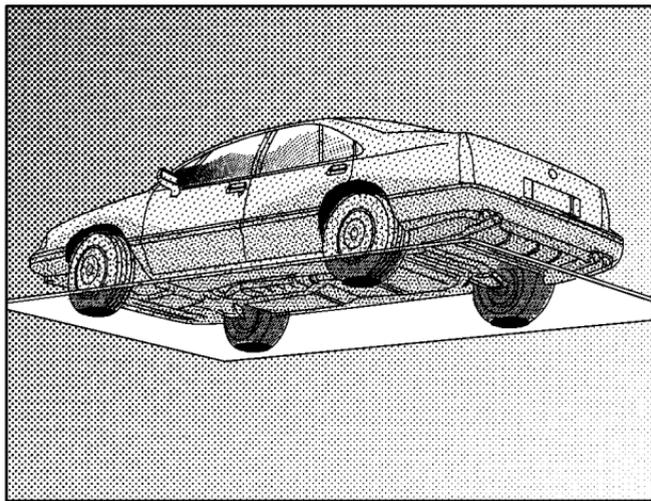
There's something else about drinking and driving that many people don't know. Medical research shows that alcohol in a person's system can make crash injuries worse, especially injuries to the brain, spinal cord or heart. This means that when anyone who has been drinking -- driver or passenger -- is in a crash, that person's chance of being killed or permanently disabled is higher than if the person had not been drinking.

 **CAUTION:**

Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness and judgment can be affected by even a small amount of alcohol. You can have a serious -- or even fatal -- collision if you drive after drinking. Please don't drink and drive or ride with a driver who has been drinking. Ride home in a cab; or if you're with a group, designate a driver who will not drink.

Control of a Vehicle

You have three systems that make your vehicle go where you want it to go. They are the brakes, the steering and the accelerator. All three systems have to do their work at the places where the tires meet the road.



Sometimes, as when you're driving on snow or ice, it's easy to ask more of those control systems than the tires and road can provide. That means you can lose control of your vehicle.

Braking

Braking action involves *perception time* and *reaction time*.

First, you have to decide to push on the brake pedal. That's *perception time*. Then you have to bring up your foot and do it. That's *reaction time*.

Average *reaction time* is about $\frac{3}{4}$ of a second. But that's only an average. It might be less with one driver and as long as two or three seconds or more with another. Age, physical condition, alertness, coordination and eyesight all play a part. So do alcohol, drugs and frustration. But even in $\frac{3}{4}$ of a second, a vehicle moving at 60 mph (100 km/h) travels 66 feet (20 m). That could be a lot of distance in an emergency, so keeping enough space between your vehicle and others is important.

And, of course, actual stopping distances vary greatly with the surface of the road (whether it's pavement or gravel); the condition of the road (wet, dry, icy); tire tread; the condition of your brakes; the weight of the vehicle and the amount of brake force applied.

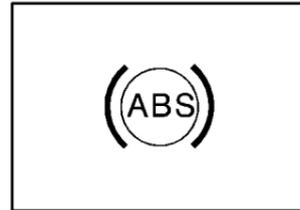
Avoid needless heavy braking. Some people drive in spurts -- heavy acceleration followed by heavy braking -- rather than keeping pace with traffic. This is a mistake. Your brakes may not have time to cool between hard stops. Your brakes will wear out much faster if you do a lot of heavy braking. If you keep pace with the traffic and allow realistic following distances, you will eliminate a lot of unnecessary braking. That means better braking and longer brake life.

If your engine ever stops while you're driving, brake normally but don't pump your brakes. If you do, the pedal may get harder to push down. If your engine stops, you will still have some power brake assist. But you will use it when you brake. Once the power assist is used up, it may take longer to stop and the brake pedal will be harder to push.

Anti-Lock Brakes (ABS)

Your vehicle has anti-lock brakes (ABS). ABS is an advanced electronic braking system that will help prevent a braking skid.

When you start your engine and begin to drive away, your anti-lock brake system will check itself. You may hear a momentary motor or clicking noise while this test is going on, and you may even notice that your brake pedal moves a little. This is normal.



If there's a problem with the anti-lock brake system, this warning light will stay on. See "Anti-Lock Brake System Warning Light" in the Index.



Here's how anti-lock works. Let's say the road is wet. You're driving safely. Suddenly an animal jumps out in front of you.

You slam on the brakes. Here's what happens with ABS.

A computer senses that wheels are slowing down. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each front wheel and at both rear wheels.

The anti-lock system can change the brake pressure faster than any driver could. The computer is programmed to make the most of available tire and road conditions.



You can steer around the obstacle while braking hard.

As you brake, your computer keeps receiving updates on wheel speed and controls braking pressure accordingly.

Remember: Anti-lock doesn't change the time you need to get your foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, you won't have time to apply your brakes if that vehicle suddenly slows or stops. Always leave enough room up ahead to stop, even though you have anti-lock brakes.

Using Anti-Lock

Don't pump the brakes. Just hold the brake pedal down firmly and let anti-lock work for you. You may hear the anti-lock pump or motor operate, and feel the brake pedal pulsate, but this is normal.

Braking in Emergencies

With anti-lock, you can steer and brake at the same time. In many emergencies, steering can help you more than even the very best braking.

Traction Control System

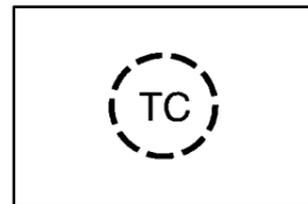
Your vehicle has a traction control system that limits wheel spin. This is especially useful in slippery road conditions. The system operates only if it senses that one or both of the front wheels are spinning or beginning to lose traction. When this happens, the system works the front brakes and reduces engine power to limit wheel spin.

The TRACTION ENGAGED message will display on the Driver Information Center when the traction control system is limiting wheel spin. See "Driver Information Center Messages" in the Index. You may feel or hear the system working, but this is normal.

If your vehicle is in cruise control when the traction control system begins to limit wheel spin, the cruise control will automatically disengage. When road conditions allow you to safely use it again, you may reengage the cruise control. (See "Cruise Control" in the Index.)



United States



Canada

This warning light will come on to let you know if there's a problem with your traction control system.

See "Traction Control System Warning Light" in the Index. When this warning light is on, the system will not limit wheel spin. Adjust your driving accordingly.

The traction control system automatically comes on whenever you start your vehicle. To limit wheel spin, especially in slippery road conditions, you should always leave the system on. But you can turn the traction control system off if you ever need to. (You should turn the system off if your vehicle ever gets stuck in sand, mud, ice or snow. See “Rocking Your Vehicle” in the Index.)



To turn the system off, press the button located on the center console. (For vehicles with a column shifter, the button is located at the end of the shift lever.)

The TRACTION OFF message will display on the Driver Information Center. If the system is limiting wheel spin when you press the button, the TRACTION OFF message will display -- but the system won't turn off right away. It will wait until there's no longer a current need to limit wheel spin.

You can turn the system back on at any time by pressing the button again. The TRACTION READY message should display briefly on the Driver Information Center.

The traction control system monitors the front brake rotor temperature. If the traction control system comes on while the front brake rotors are hot due to heavy use of braking or previous traction control, the TRACTION SUSPENDED message will be displayed -- but the system won't turn off right away. It will wait until there's no longer a current need to limit wheel spin. The TRACTION READY message should appear when the brake rotors are no longer hot and the traction control system will resume normal operation.

Steering

Power Steering

If you lose power steering assist because the engine stops or the system is not functioning, you can steer but it will take much more effort.

Magnasteer®

This system continuously adjusts the effort you feel when steering at all vehicle speeds. It provides ease when parking yet a firm, solid feel at highway speeds.

Steering Tips

Driving on Curves

It's important to take curves at a reasonable speed.

A lot of the “driver lost control” accidents mentioned on the news happen on curves. Here's why:

Experienced driver or beginner, each of us is subject to the same laws of physics when driving on curves. The traction of the tires against the road surface makes it possible for the vehicle to change its path when you turn the front wheels. If there's no traction, inertia will keep the vehicle going in the same direction. If you've ever tried to steer a vehicle on wet ice, you'll understand this.

The traction you can get in a curve depends on the condition of your tires and the road surface, the angle at which the curve is banked, and your speed. While you're in a curve, speed is the one factor you can control.

Suppose you're steering through a sharp curve. Then you suddenly accelerate. Both control systems -- steering and acceleration -- have to do their work where the tires meet the road. Adding the sudden acceleration can demand too much of those places. You can lose control. Refer to “Traction Control System” in the Index.

What should you do if this ever happens? Ease up on the accelerator pedal, steer the vehicle the way you want it to go, and slow down.

If you have Stabilitrak®, you may see the STABILITY SYS ENGAGED message on the Driver Information Center. See “Stability Sys Engaged Message” in the Index.

Speed limit signs near curves warn that you should adjust your speed. Of course, the posted speeds are based on good weather and road conditions. Under less favorable conditions you'll want to go slower.

If you need to reduce your speed as you approach a curve, do it before you enter the curve, while your front wheels are straight ahead.

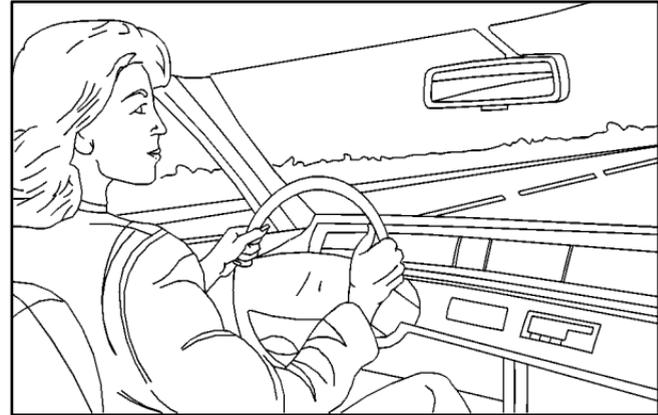
Try to adjust your speed so you can “drive” through the curve. Maintain a reasonable, steady speed. Wait to accelerate until you are out of the curve, and then accelerate gently into the straightaway.

If you have Stabilitrak[®], to help you steer in the direction you want to go, during certain sharp or sudden cornering maneuvers, gear selection is controlled. This will maximize the available drive wheel torque and minimize the transaxle response time and shift activity. During this kind of maneuver, the transaxle shifts automatically as vehicle speed changes.

Steering in Emergencies

There are times when steering can be more effective than braking. For example, you come over a hill and find a truck stopped in your lane, or a car suddenly pulls out from nowhere, or a child darts out from between parked cars and stops right in front of you. You can avoid these problems by braking -- if you can stop in time. But sometimes you can't; there isn't room. That's the time for evasive action -- steering around the problem.

Your vehicle can perform very well in emergencies like these. First apply your brakes. (See “Braking in Emergencies” earlier in this section.) It is better to remove as much speed as you can from a possible collision. Then steer around the problem, to the left or right depending on the space available.

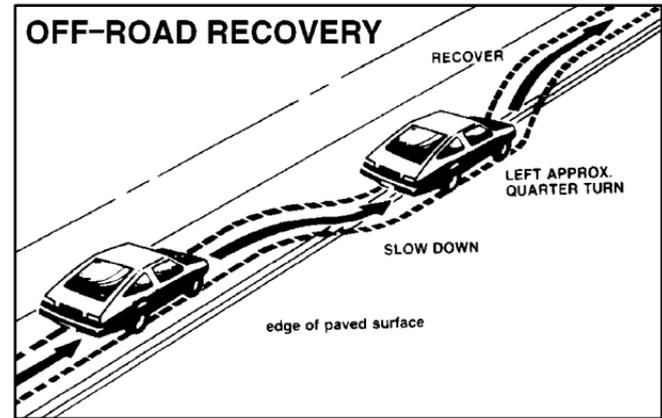


An emergency like this requires close attention and a quick decision. If you are holding the steering wheel at the recommended 9 and 3 o'clock positions, you can turn it a full 180 degrees very quickly without removing either hand. But you have to act fast, steer quickly, and just as quickly straighten the wheel once you have avoided the object.

The fact that such emergency situations are always possible is a good reason to practice defensive driving at all times and wear safety belts properly.

Off-Road Recovery

You may find that your right wheels have dropped off the edge of a road onto the shoulder while you're driving.



If the level of the shoulder is only slightly below the pavement, recovery should be fairly easy. Ease off the accelerator and then, if there is nothing in the way, steer so that your vehicle straddles the edge of the pavement. You can turn the steering wheel up to one-quarter turn until the right front tire contacts the pavement edge. Then turn your steering wheel to go straight down the roadway.

Passing

The driver of a vehicle about to pass another on a two-lane highway waits for just the right moment, accelerates, moves around the vehicle ahead, then goes back into the right lane again. A simple maneuver?

Not necessarily! Passing another vehicle on a two-lane highway is a potentially dangerous move, since the passing vehicle occupies the same lane as oncoming traffic for several seconds. A miscalculation, an error in judgment, or a brief surrender to frustration or anger can suddenly put the passing driver face to face with the worst of all traffic accidents -- the head-on collision.

So here are some tips for passing:

- “Drive ahead.” Look down the road, to the sides and to crossroads for situations that might affect your passing patterns. If you have any doubt whatsoever about making a successful pass, wait for a better time.
- Watch for traffic signs, pavement markings and lines. If you can see a sign up ahead that might indicate a turn or an intersection, delay your pass. A broken center line usually indicates it’s all right to pass (providing the road ahead is clear). Never cross a solid line on your side of the lane or a double solid line, even if the road seems empty of approaching traffic.
- Do not get too close to the vehicle you want to pass while you’re awaiting an opportunity. For one thing, following too closely reduces your area of vision, especially if you’re following a larger vehicle. Also, you won’t have adequate space if the vehicle ahead suddenly slows or stops. Keep back a reasonable distance.
- When it looks like a chance to pass is coming up, start to accelerate but stay in the right lane and don’t get too close. Time your move so you will be increasing speed as the time comes to move into the other lane. If the way is clear to pass, you will have a “running start” that more than makes up for the distance you would lose by dropping back. And if something happens to cause you to cancel your pass, you need only slow down and drop back again and wait for another opportunity.

- If other cars are lined up to pass a slow vehicle, wait your turn. But take care that someone isn't trying to pass you as you pull out to pass the slow vehicle. Remember to glance over your shoulder and check the blind spot.
- Check your mirrors, glance over your shoulder, and start your left lane change signal before moving out of the right lane to pass. When you are far enough ahead of the passed vehicle to see its front in your inside mirror, activate your right lane change signal and move back into the right lane. (Remember that your right outside mirror is convex. The vehicle you just passed may seem to be farther away from you than it really is.)
- Try not to pass more than one vehicle at a time on two-lane roads. Reconsider before passing the next vehicle.
- Don't overtake a slowly moving vehicle too rapidly. Even though the brake lamps are not flashing, it may be slowing down or starting to turn.
- If you're being passed, make it easy for the following driver to get ahead of you. Perhaps you can ease a little to the right.

Loss of Control

Let's review what driving experts say about what happens when the three control systems (brakes, steering and acceleration) don't have enough friction where the tires meet the road to do what the driver has asked.

In any emergency, don't give up. Keep trying to steer and constantly seek an escape route or area of less danger.

Skidding

In a skid, a driver can lose control of the vehicle. Defensive drivers avoid most skids by taking reasonable care suited to existing conditions, and by not "overdriving" those conditions. But skids are always possible.

The three types of skids correspond to your vehicle's three control systems. In the braking skid, your wheels aren't rolling. In the steering or cornering skid, too much speed or steering in a curve causes tires to slip and lose cornering force. And in the acceleration skid, too much throttle causes the driving wheels to spin.

A cornering skid is best handled by easing your foot off the accelerator pedal.

Remember: Any traction control system helps avoid only the acceleration skid.

If your traction control system is off, then an acceleration skid is also best handled by easing your foot off the accelerator pedal.

If your vehicle starts to slide, ease your foot off the accelerator pedal and quickly steer the way you want the vehicle to go. If you start steering quickly enough, your vehicle may straighten out. Always be ready for a second skid if it occurs.

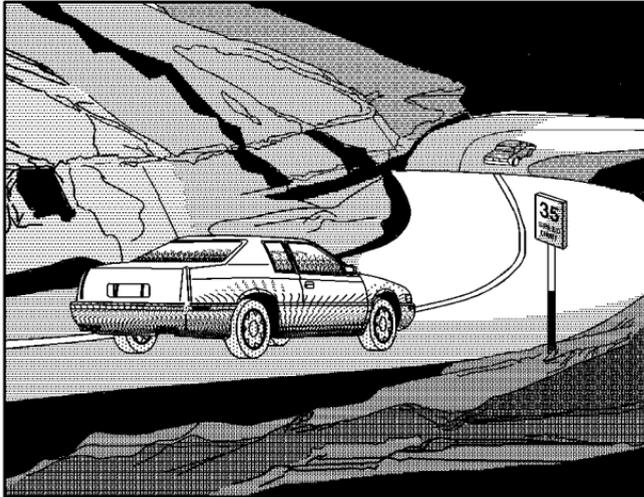
If you have Stabilitrak[®], you may see the STABILITY SYS ENGAGED message on the Driver Information Center. See “Stability Sys Engaged Message” in the Index.

Of course, traction is reduced when water, snow, ice, gravel or other material is on the road. For safety, you’ll want to slow down and adjust your driving to these conditions. It is important to slow down on slippery surfaces because stopping distance will be longer and vehicle control more limited.

While driving on a surface with reduced traction, try your best to avoid sudden steering, acceleration or braking (including engine braking by shifting to a lower gear). Any sudden changes could cause the tires to slide. You may not realize the surface is slippery until your vehicle is skidding. Learn to recognize warning clues -- such as enough water, ice or packed snow on the road to make a “mirrored surface” -- and slow down when you have any doubt.

Remember: Any anti-lock brake system (ABS) helps avoid only the braking skid.

Driving at Night



Night driving is more dangerous than day driving. One reason is that some drivers are likely to be impaired -- by alcohol or drugs, with night vision problems, or by fatigue.

Here are some tips on night driving.

- Drive defensively.
- Don't drink and drive.
- Adjust your inside rearview mirror to reduce the glare from headlamps behind you.
- Since you can't see as well, you may need to slow down and keep more space between you and other vehicles.
- Slow down, especially on higher speed roads. Your headlamps can light up only so much road ahead.
- In remote areas, watch for animals.
- If you're tired, pull off the road in a safe place and rest.

No one can see as well at night as in the daytime. But as we get older these differences increase. A 50-year-old driver may require at least twice as much light to see the same thing at night as a 20-year-old.

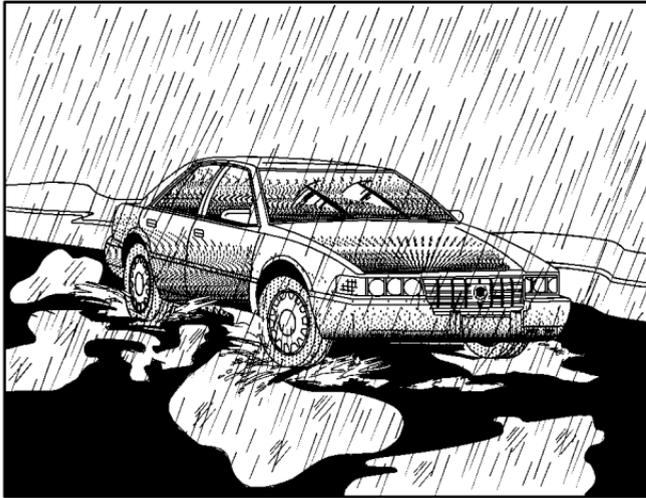
What you do in the daytime can also affect your night vision. For example, if you spend the day in bright sunshine you are wise to wear sunglasses. Your eyes will have less trouble adjusting to night. But if you're driving, don't wear sunglasses at night. They may cut down on glare from headlamps, but they also make a lot of things invisible.

You can be temporarily blinded by approaching headlamps. It can take a second or two, or even several seconds, for your eyes to readjust to the dark. When you are faced with severe glare (as from a driver who doesn't lower the high beams, or a vehicle with misaimed headlamps), slow down a little. Avoid staring directly into the approaching headlamps.

Keep your windshield and all the glass on your vehicle clean -- inside and out. Glare at night is made much worse by dirt on the glass. Even the inside of the glass can build up a film caused by dust. Dirty glass makes lights dazzle and flash more than clean glass would, making the pupils of your eyes contract repeatedly.

Remember that your headlamps light up far less of a roadway when you are in a turn or curve. Keep your eyes moving; that way, it's easier to pick out dimly lighted objects. Just as your headlamps should be checked regularly for proper aim, so should your eyes be examined regularly. Some drivers suffer from night blindness -- the inability to see in dim light -- and aren't even aware of it.

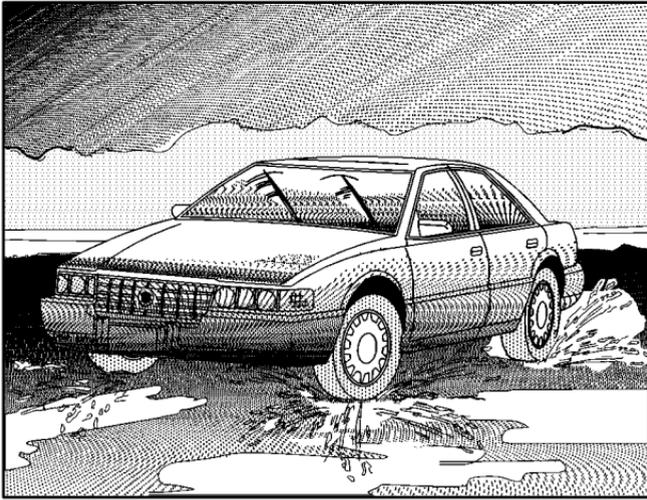
Driving in Rain and on Wet Roads



Rain and wet roads can mean driving trouble. On a wet road, you can't stop, accelerate or turn as well because your tire-to-road traction isn't as good as on dry roads. And, if your tires don't have much tread left, you'll get even less traction. It's always wise to go slower and be cautious if rain starts to fall while you are driving. The surface may get wet suddenly when your reflexes are tuned for driving on dry pavement.

The heavier the rain, the harder it is to see. Even if your windshield wiper blades are in good shape, a heavy rain can make it harder to see road signs and traffic signals, pavement markings, the edge of the road and even people walking.

It's wise to keep your windshield wiping equipment in good shape and keep your windshield washer tank filled with washer fluid. Replace your windshield wiper inserts when they show signs of streaking or missing areas on the windshield, or when strips of rubber start to separate from the inserts.



Driving too fast through large water puddles or even going through some car washes can cause problems, too. The water may affect your brakes. Try to avoid puddles. But if you can't, try to slow down before you hit them.

⚠ CAUTION:

Wet brakes can cause accidents. They won't work as well in a quick stop and may cause pulling to one side. You could lose control of the vehicle.

After driving through a large puddle of water or a car wash, apply your brake pedal lightly until your brakes work normally.

Hydroplaning

Hydroplaning is dangerous. So much water can build up under your tires that they can actually ride on the water. This can happen if the road is wet enough and you're going fast enough. When your vehicle is hydroplaning, it has little or no contact with the road.

Hydroplaning doesn't happen often. But it can if your tires do not have much tread or if the pressure in one or more is low. It can happen if a lot of water is standing on the road. If you can see reflections from trees, telephone poles or other vehicles, and raindrops "dimple" the water's surface, there could be hydroplaning.

Hydroplaning usually happens at higher speeds. There just isn't a hard and fast rule about hydroplaning. The best advice is to slow down when it is raining.

Driving Through Deep Standing Water

NOTICE:

If you drive too quickly through deep puddles or standing water, water can come in through your engine's air intake and badly damage your engine. Never drive through water that is slightly lower than the underbody of your vehicle. If you can't avoid deep puddles or standing water, drive through them very slowly.

Driving Through Flowing Water

CAUTION:

Flowing or rushing water creates strong forces. If you try to drive through flowing water, as you might at a low water crossing, your vehicle can be carried away. As little as six inches of flowing water can carry away a smaller vehicle. If this happens, you and other vehicle occupants could drown. Don't ignore police warning signs, and otherwise be very cautious about trying to drive through flowing water.

Some Other Rainy Weather Tips

- Besides slowing down, allow some extra following distance. And be especially careful when you pass another vehicle. Allow yourself more clear room ahead, and be prepared to have your view restricted by road spray.
- Have good tires with proper tread depth. (See "Tires" in the Index.)

City Driving



One of the biggest problems with city streets is the amount of traffic on them. You'll want to watch out for what the other drivers are doing and pay attention to traffic signals.

Here are ways to increase your safety in city driving:

- Know the best way to get to where you are going. Get a city map and plan your trip into an unknown part of the city just as you would for a cross-country trip.
- Try to use the freeways that rim and crisscross most large cities. You'll save time and energy. (See the next part, "Freeway Driving.")
- Treat a green light as a warning signal. A traffic light is there because the corner is busy enough to need it. When a light turns green, and just before you start to move, check both ways for vehicles that have not cleared the intersection or may be running the red light.

Freeway Driving



Mile for mile, freeways (also called thruways, parkways, expressways, turnpikes or superhighways) are the safest of all roads. But they have their own special rules.

The most important advice on freeway driving is: Keep up with traffic and keep to the right. Drive at the same speed most of the other drivers are driving. Too-fast or too-slow driving breaks a smooth traffic flow. Treat the left lane on a freeway as a passing lane.

At the entrance, there is usually a ramp that leads to the freeway. If you have a clear view of the freeway as you drive along the entrance ramp, you should begin to check traffic. Try to determine where you expect to blend with the flow. Try to merge into the gap at close to the prevailing speed. Switch on your turn signal, check your mirrors and glance over your shoulder as often as necessary. Try to blend smoothly with the traffic flow.

Once you are on the freeway, adjust your speed to the posted limit or to the prevailing rate if it's slower. Stay in the right lane unless you want to pass.

Before changing lanes, check your mirrors. Then use your turn signal.

Just before you leave the lane, glance quickly over your shoulder to make sure there isn't another vehicle in your "blind" spot.

Once you are moving on the freeway, make certain you allow a reasonable following distance. Expect to move slightly slower at night.

When you want to leave the freeway, move to the proper lane well in advance. If you miss your exit, do not, under any circumstances, stop and back up. Drive on to the next exit.

The exit ramp can be curved, sometimes quite sharply.

The exit speed is usually posted.

Reduce your speed according to your speedometer, not to your sense of motion. After driving for any distance at higher speeds, you may tend to think you are going slower than you actually are.

Before Leaving on a Long Trip

Make sure you're ready. Try to be well rested. If you must start when you're not fresh -- such as after a day's work -- don't plan to make too many miles that first part of the journey. Wear comfortable clothing and shoes you can easily drive in.

Is your vehicle ready for a long trip? If you keep it serviced and maintained, it's ready to go. If it needs service, have it done before starting out. Of course, you'll find experienced and able service experts in Cadillac dealerships all across North America. They'll be ready and willing to help if you need it.

Here are some things you can check before a trip:

- *Windshield Washer Fluid*: Is the reservoir full? Are all windows clean inside and outside?
- *Wiper Blades*: Are they in good shape?
- *Fuel, Engine Oil, Other Fluids*: Have you checked all levels?
- *Lamps*: Are they all working? Are the lenses clean?
- *Tires*: They are vitally important to a safe, trouble-free trip. Is the tread good enough for long-distance driving? Are the tires all inflated to the recommended pressure?
- *Weather Forecasts*: What's the weather outlook along your route? Should you delay your trip a short time to avoid a major storm system?
- *Maps*: Do you have up-to-date maps?

Highway Hypnosis

Is there actually such a condition as “highway hypnosis”? Or is it just plain falling asleep at the wheel? Call it highway hypnosis, lack of awareness, or whatever.

There is something about an easy stretch of road with the same scenery, along with the hum of the tires on the road, the drone of the engine, and the rush of the wind against the vehicle that can make you sleepy. Don't let it happen to you! If it does, your vehicle can leave the road in *less than a second*, and you could crash and be injured.

What can you do about highway hypnosis? First, be aware that it can happen.

Then here are some tips:

- Make sure your vehicle is well ventilated, with a comfortably cool interior.
- Keep your eyes moving. Scan the road ahead and to the sides. Check your rearview mirrors and your instruments frequently.
- If you get sleepy, pull off the road into a rest, service or parking area and take a nap, get some exercise, or both. For safety, treat drowsiness on the highway as an emergency.

Hill and Mountain Roads



Driving on steep hills or mountains is different from driving in flat or rolling terrain.

If you drive regularly in steep country, or if you're planning to visit there, here are some tips that can make your trips safer and more enjoyable.

- Keep your vehicle in good shape. Check all fluid levels and also the brakes, tires, cooling system and transaxle. These parts can work hard on mountain roads.
- Know how to go down hills. The most important thing to know is this: let your engine do some of the slowing down. Shift to a lower gear when you go down a steep or long hill.

 **CAUTION:**

If you don't shift down, your brakes could get so hot that they wouldn't work well. You would then have poor braking or even none going down a hill. You could crash. Shift down to let your engine assist your brakes on a steep downhill slope.

 **CAUTION:**

Coasting downhill in NEUTRAL (N) or with the ignition off is dangerous. Your brakes will have to do all the work of slowing down. They could get so hot that they wouldn't work well. You would then have poor braking or even none going down a hill. You could crash. Always have your engine running and your vehicle in gear when you go downhill.

- Know how to go uphill. You may want to shift down to a lower gear. The lower gears help cool your engine and transaxle, and you can climb the hill better.
- Stay in your own lane when driving on two-lane roads in hills or mountains. Don't swing wide or cut across the center of the road. Drive at speeds that let you stay in your own lane.

- As you go over the top of a hill, be alert. There could be something in your lane, like a stalled car or an accident.
- You may see highway signs on mountains that warn of special problems. Examples are long grades, passing or no-passing zones, a falling rocks area or winding roads. Be alert to these and take appropriate action.

Winter Driving



Here are some tips for winter driving:

- Have your vehicle in good shape for winter.
- You may want to put winter emergency supplies in your trunk.

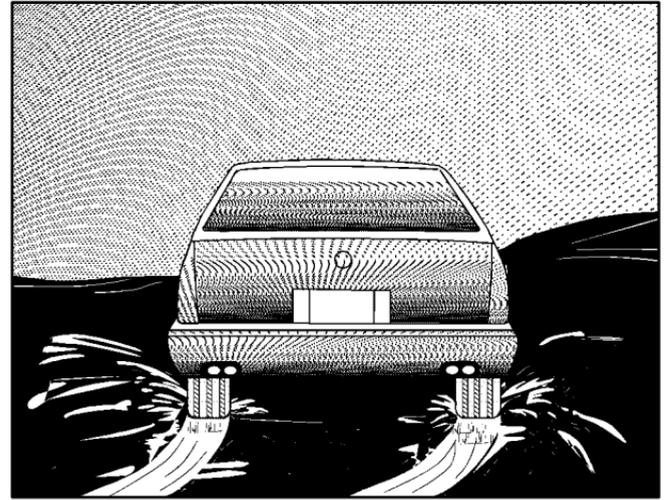


Include an ice scraper, a small brush or broom, a supply of windshield washer fluid, a rag, some winter outer clothing, a small shovel, a flashlight, a red cloth and a couple of reflective warning triangles. And, if you will be driving under severe conditions, include a small bag of sand, a piece of old carpet or a couple of burlap bags to help provide traction. Be sure you properly secure these items in your vehicle.

Driving on Snow or Ice

Most of the time, those places where your tires meet the road probably have good traction.

However, if there is snow or ice between your tires and the road, you can have a very slippery situation. You'll have a lot less traction or "grip" and will need to be very careful.



What's the worst time for this? "Wet ice." Very cold snow or ice can be slick and hard to drive on. But wet ice can be even more trouble because it may offer the least traction of all. You can get wet ice when it's about freezing (32°F; 0°C) and freezing rain begins to fall. Try to avoid driving on wet ice until salt and sand crews can get there.

Whatever the condition -- smooth ice, packed, blowing or loose snow -- drive with caution.

Keep your traction control system on. It improves your ability to accelerate when driving on a slippery road. Even though your vehicle has a traction control system, you'll want to slow down and adjust your driving to the road conditions. See "Traction Control System" in the Index.

Your anti-lock brakes improve your vehicle's stability when you make a hard stop on a slippery road. Even though you have the anti-lock braking system, you'll want to begin stopping sooner than you would on dry pavement. See "Anti-Lock" in the Index.

- Allow greater following distance on any slippery road.
- Watch for slippery spots. The road might be fine until you hit a spot that's covered with ice. On an otherwise clear road, ice patches may appear in shaded areas where the sun can't reach: around clumps of trees, behind buildings or under bridges. Sometimes the surface of a curve or an overpass may remain icy when the surrounding roads are clear. If you see a patch of ice ahead of you, brake before you are on it. Try not to brake while you're actually on the ice, and avoid sudden steering maneuvers.

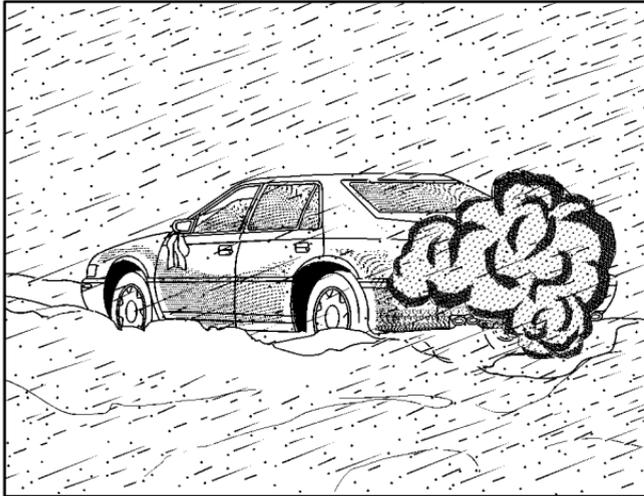
If You're Caught in a Blizzard



If you are stopped by heavy snow, you could be in a serious situation. You should probably stay with your vehicle unless you know for sure that you are near help and you can hike through the snow. Here are some things to do to summon help and keep yourself and your passengers safe:

- Turn on your hazard flashers.

- Tie a red cloth to your vehicle to alert police that you've been stopped by the snow.
- Put on extra clothing or wrap a blanket around you. If you have no blankets or extra clothing, make body insulators from newspapers, burlap bags, rags, floor mats -- anything you can wrap around yourself or tuck under your clothing to keep warm.



You can run the engine to keep warm, but be careful.

⚠ CAUTION:

Snow can trap exhaust gases under your vehicle. This can cause deadly CO (carbon monoxide) gas to get inside. CO could overcome you and kill you. You can't see it or smell it, so you might not know it is in your vehicle. Clear away snow from around the base of your vehicle, especially any that is blocking your exhaust pipe. And check around again from time to time to be sure snow doesn't collect there.

Open a window just a little on the side of the vehicle that's away from the wind. This will help keep CO out.

Run your engine only as long as you must. This saves fuel. When you run the engine, make it go a little faster than just idle. That is, push the accelerator slightly. This uses less fuel for the heat that you get and it keeps the battery charged. You will need a well-charged battery to restart the vehicle, and possibly for signaling later on with your headlamps. Let the heater run for a while.

Then, shut the engine off and close the window almost all the way to preserve the heat. Start the engine again and repeat this only when you feel really uncomfortable from the cold. But do it as little as possible. Preserve the fuel as long as you can. To help keep warm, you can get out of the vehicle and do some fairly vigorous exercises every half hour or so until help comes.

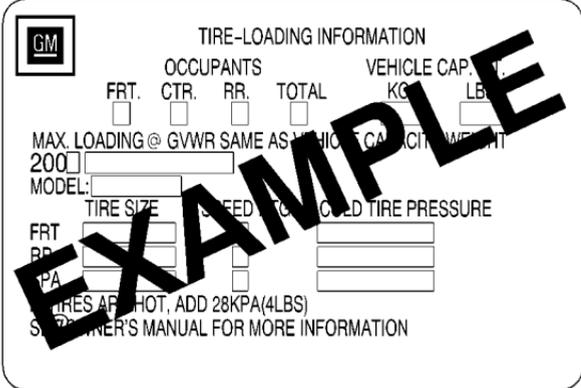
Recreational Vehicle Towing

Your vehicle was not designed to be towed with all four wheels on the ground. If your vehicle must be towed, see “Towing Your Vehicle” in the Index.

NOTICE:

Towing your vehicle with all four wheels on the ground will damage drivetrain components.

Loading Your Vehicle



GM TIRE-LOADING INFORMATION

OCCUPANTS VEHICLE CAP. WGT

FRT. CTR. RR. TOTAL KG LB

MAX. LOADING @ GVWR SAME AS VEHICLE CAP. CTR. WEIGHT

200 _____

MODEL: _____

TIRE SIZE SPEED T.C. COLD TIRE PRESSURE

FRT _____

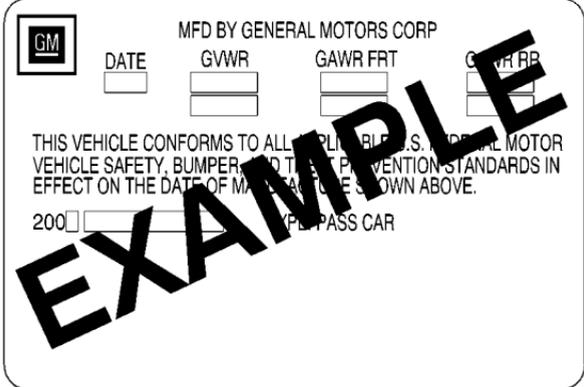
RR _____

PA _____

TIRES ARE HOT, ADD 28KPA(4LBS)

SEE OWNER'S MANUAL FOR MORE INFORMATION

Two labels on your vehicle show how much weight it may properly carry. The Tire-Loading Information label found on the driver's side center hinge pillar tells you the proper size, speed rating and recommended inflation pressures for the tires on your vehicle. It also gives you important information about the number of people that can be in your vehicle and the total weight that you can carry. This weight is called the Vehicle Capacity Weight and includes the weight of all occupants, cargo and all options not installed in the factory.



GM MFD BY GENERAL MOTORS CORP

DATE GVWR GAWR FRT GVWR RR

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY, BUMPER AND TRAFFIC PREVENTION STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

200 _____ TYPE: PASS CAR

The other label is the Certification label, found on the rear edge of the driver's door. It tells you the gross weight capacity of your vehicle, called the Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo. Never exceed the GVWR for your vehicle or the Gross Axle Weight Rating (GAWR) for either the front or rear axle.

If you do have a heavy load, you should spread it out. Don't carry more than 203 lbs. (92 kg) in the trunk.

 **CAUTION:**

Do not load your vehicle any heavier than the GVWR, or either the maximum front or rear GAWR. If you do, parts on your vehicle can break, and it can change the way your vehicle handles. These could cause you to lose control and crash. Also, overloading can shorten the life of your vehicle.

NOTICE:

Your warranty does not cover parts or components that fail because of overloading.

If you put things inside your vehicle -- like suitcases, tools, packages or anything else -- they will go as fast as the vehicle goes. If you have to stop or turn quickly, or if there is a crash, they'll keep going.

 **CAUTION:**

Things you put inside your vehicle can strike and injure people in a sudden stop or turn, or in a crash.

- Put things in the trunk of your vehicle. In a trunk, put them as far forward as you can. Try to spread the weight evenly.
- Never stack heavier things, like suitcases, inside the vehicle so that some of them are above the tops of the seats.
- Don't leave an unsecured child restraint in your vehicle.
- When you carry something inside the vehicle, secure it whenever you can.

Electronic Level Control

This feature keeps the rear of your vehicle level as the load changes. It's automatic -- you don't need to adjust anything.

Towing a Trailer

CAUTION:

If you don't use the correct equipment and drive properly, you can lose control when you pull a trailer. For example, if the trailer is too heavy, the brakes may not work well -- or even at all. You and your passengers could be seriously injured. You may also damage your vehicle; the resulting repairs would not be covered by your warranty. Pull a trailer only if you have followed all the steps in this section. Ask your dealer for advice and information about towing a trailer with your vehicle.

Your vehicle can tow a trailer if it is equipped with the proper trailer towing equipment. To identify what the vehicle trailering capacity is for your vehicle, you should read the information in “Weight of the Trailer” that appears later in this section. But trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability and fuel economy. Successful, safe trailering takes correct equipment, and it has to be used properly.

That's the reason for this part. In it are many time-tested, important trailering tips and safety rules. Many of these are important for your safety and that of your passengers. So please read this section carefully before you pull a trailer.

Load-pulling components such as the engine, transaxle, wheel assemblies and tires are forced to work harder against the drag of the added weight. The engine is required to operate at relatively higher speeds and under greater loads, generating extra heat. What's more, the trailer adds considerably to wind resistance, increasing the pulling requirements.

If You Do Decide To Pull A Trailer

If you do, here are some important points:

- There are many different laws, including speed limit restrictions, having to do with trailering. Make sure your rig will be legal, not only where you live but also where you'll be driving. A good source for this information can be state or provincial police.
- Consider using a sway control if your trailer will weigh 2,000 lbs. (900 kg) or less. You should always use a sway control if your trailer will weigh more than 2,000 lbs. (900 kg). You can ask a hitch dealer about sway controls.
- Don't tow a trailer at all during the first 1,000 miles (1 600 km) your new vehicle is driven. Your engine, axle or other parts could be damaged.
- Then, during the first 500 miles (800 km) that you tow a trailer, don't drive over 50 mph (80 km/h) and don't make starts at full throttle. This helps your engine and other parts of your vehicle wear in at the heavier loads.
- Obey speed limit restrictions when towing a trailer. Don't drive faster than the maximum posted speed for trailers (or no more than 55 mph (90 km/h)) to save wear on your vehicle's parts.

Three important considerations have to do with weight:

- the weight of the trailer,
- the weight of the trailer tongue
- and the total weight on your vehicle's tires.

Weight of the Trailer

How heavy can a trailer safely be?

It should never weigh more than 2,000 lbs. (900 kg) without the optional trailer towing package. If you have the optional trailer towing package, the maximum trailer weight should never be more than 3,000 lbs. (1 350 kg). These are total maximum weights including the load. But even that can be too heavy.

It depends on how you plan to use your rig. For example, speed, altitude, road grades, outside temperature and how much your vehicle is used to pull a trailer are all important. And, it can also depend on any special equipment that you have on your vehicle.

The optional trailer towing package provides the necessary oil cooler to tow a trailer heavier than 2,000 lbs. (900 kg).

You can ask your dealer for our trailering information or advice, or you can write us at:

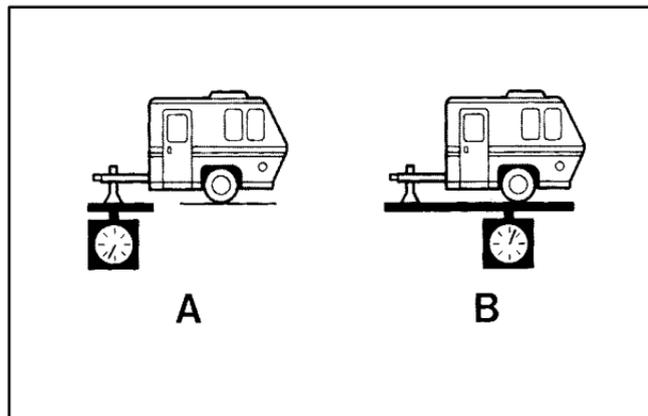
Cadillac Customer Assistance Center
Cadillac Motor Car Division
P.O. Box 436004
Pontiac, MI 48343-6004

In Canada, write to:

General Motors of Canada Limited
Customer Communication Centre
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Weight of the Trailer Tongue

The tongue load (A) of any trailer is an important weight to measure because it affects the total or gross weight of your vehicle. The Gross Vehicle Weight (GVW) includes the curb weight of the vehicle, any cargo you may carry in it, and the people who will be riding in the vehicle. And if you tow a trailer, you must add the tongue load to the GVW because your vehicle will be carrying that weight, too. See “Loading Your Vehicle” in the Index for more information about your vehicle’s maximum load capacity.



If you're using a weight-carrying hitch, the trailer tongue (A) should weigh 10 percent of the total loaded trailer weight (B). If you have a weight-distributing hitch, the trailer tongue (A) should weigh 12 percent of the total loaded trailer weight (B).

After you've loaded your trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they aren't, you may be able to get them right simply by moving some items around in the trailer.

Total Weight on Your Vehicle's Tires

Be sure your vehicle's tires are inflated to the upper limit for cold tires. You'll find these numbers on the Tire-Loading Information label at the rear edge of the driver's door or see "Loading Your Vehicle" in the Index. Then be sure you don't go over the GVW limit for your vehicle, including the weight of the trailer tongue.

Hitches

It's important to have the correct hitch equipment. Crosswinds, large trucks going by and rough roads are a few reasons why you'll need the right hitch. Here are some rules to follow:

- The rear bumper on your vehicle is not intended for hitches. Do not attach rental hitches or other bumper-type hitches to it. Use only a frame-mounted hitch that does not attach to the bumper.
- If you'll be pulling a trailer that, when loaded, will weigh more than 2,000 lbs. (900 kg), be sure to use a properly mounted, weight-distributing hitch and sway control of the proper size. This equipment is very important for proper vehicle loading and good handling when you're driving.
- Will you have to make any holes in the body of your vehicle when you install a trailer hitch? If you do, then be sure to seal the holes later when you remove the hitch. If you don't seal them, deadly carbon monoxide (CO) from your exhaust can get into your vehicle (see "Carbon Monoxide" in the Index). Dirt and water can, too.

Safety Chains

You should always attach chains between your vehicle and your trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Instructions about safety chains may be provided by the hitch manufacturer or by the trailer manufacturer. Follow the manufacturer's recommendation for attaching safety chains and do not attach them to the bumper. Always leave just enough slack so you can turn with your rig. And, never allow safety chains to drag on the ground.

Trailer Brakes

Because you have anti-lock brakes, don't try to tap into your vehicle's hydraulic brake system. If you do, both brake systems won't work well, or at all. If you tow more than 1,000 lbs. (450 kg), use trailer brakes. Be sure to follow the instructions that come with the trailer or from the brake manufacturer.

Be sure to read and follow the instructions for the trailer brakes so you'll be able to maintain them properly.

Trailer Wiring Harness (Option)

If your vehicle is equipped with the trailer towing package, your vehicle has additional wiring to attach to a trailer's wiring harness. Contact your dealer for proper installation.

Driving with a Trailer

Towing a trailer requires a certain amount of experience. Before setting out for the open road, you'll want to get to know your rig. Acquaint yourself with the feel of handling and braking with the added weight of the trailer. And always keep in mind that the vehicle you are driving is now a good deal longer and not nearly as responsive as your vehicle is by itself.

Before you start, check the trailer hitch and platform (and attachments), safety chains, electrical connector, lamps, tires and mirror adjustment. If the trailer has electric brakes, start your vehicle and trailer moving and then apply the trailer brake controller by hand to be sure the brakes are working. This lets you check your electrical connection at the same time.

During your trip, check occasionally to be sure that the load is secure, and that the lamps and any trailer brakes are still working.

Following Distance

Stay at least twice as far behind the vehicle ahead as you would when driving your vehicle without a trailer. This can help you avoid situations that require heavy braking and sudden turns.

Passing

You'll need more passing distance up ahead when you're towing a trailer. And, because you're a good deal longer, you'll need to go much farther beyond the passed vehicle before you can return to your lane.

Backing Up

Hold the bottom of the steering wheel with one hand. Then, to move the trailer to the left, just move that hand to the left. To move the trailer to the right, move your hand to the right. Always back up slowly and, if possible, have someone guide you.

Making Turns

NOTICE:

Making very sharp turns while trailering could cause the trailer to come in contact with the vehicle. Your vehicle could be damaged. Avoid making very sharp turns while trailering.

When you're turning with a trailer, make wider turns than normal. Do this so your trailer won't strike soft shoulders, curbs, road signs, trees or other objects. Avoid jerky or sudden maneuvers. Signal well in advance.

Turn Signals When Towing a Trailer

When you tow a trailer, your vehicle may need a different turn signal flasher and/or extra wiring. Check with your dealer. The arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly hooked up, the trailer lamps will also flash, telling other drivers you're about to turn, change lanes or stop.

When towing a trailer, the arrows on your instrument panel will flash for turns even if the bulbs on the trailer are burned out. Thus, you may think drivers behind you are seeing your signal when they are not. It's important to check occasionally to be sure the trailer bulbs are still working.

Driving On Grades

Reduce speed and shift to a lower gear *before* you start down a long or steep downgrade. If you don't shift down, you might have to use your brakes so much that they would get hot and no longer work well.

For some grade conditions, it may be better to drive in THIRD (3) to lessen transaxle shifting. You may wish to drive in THIRD (3) instead of DRIVE (D) while towing a trailer.

On a long uphill grade, reduce your speed to around 45 mph (70 km/h) or less to reduce the possibility of engine and transaxle overheating.

Parking on Hills

CAUTION:

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

1. Apply your regular brakes, but do not shift into PARK (P).
2. Have someone place chocks under the trailer wheels.
3. When the wheel chocks are in place, release the regular brakes until the chocks absorb the load.
4. Reapply the regular brakes. Then shift into PARK (P) firmly and apply your parking brakes.
5. Release the regular brakes.

When You Are Ready to Leave After Parking on a Hill

1. Apply your regular brakes and hold the pedal down while you:
 - Start your engine;
 - Shift into a gear; and
 - Be sure the parking brake has released.
2. Let up on the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

Maintenance When Trailer Towing

Your vehicle will need service more often when you're pulling a trailer. See the Maintenance Schedule booklet for more on this. Things that are especially important in trailer operation are automatic transaxle fluid (don't overfill), engine oil, drive belt, cooling system and brake system. If you're trailering, it's a good idea to review this information before you start your trip.

Check periodically to see that all hitch nuts and bolts are tight.

Engine Cooling When Trailer Towing

Your cooling system may temporarily overheat during severe operating conditions. See "Engine Overheating" in the Index.



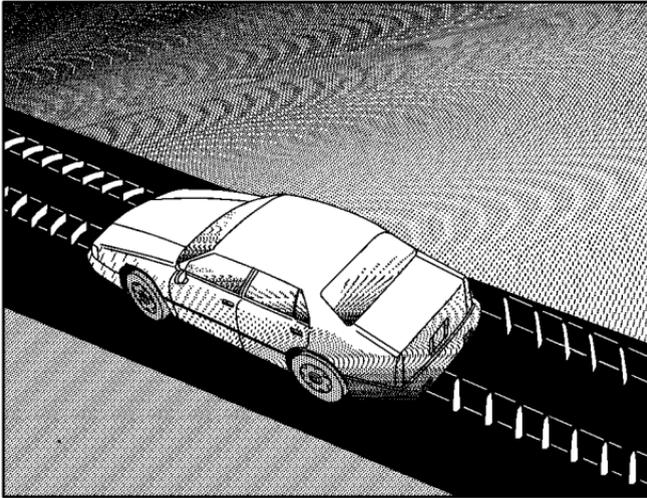
Section 5 Problems on the Road

Here you'll find what to do about some problems that can occur on the road.

5-2 Hazard Warning Flashers
5-3 Other Warning Devices
5-3 Jump Starting
5-8 Towing Your Vehicle
5-9 Engine Overheating

5-12 Cooling System
5-18 If a Tire Goes Flat
5-19 Changing a Flat Tire
5-30 Compact Spare Tire
5-31 If You're Stuck: In Sand, Mud, Ice or Snow

Hazard Warning Flashers

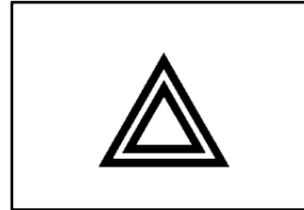


Your hazard warning flashers let you warn others. They also let police know you have a problem. Your front and rear turn signal lamps will flash on and off.



The hazard warning button is located on the center of the instrument panel between the two air vents.

Press the button in to make the front and rear turn signal lamps flash on and off.



The light in the center of the button will flash, indicating that the hazard warning flashers are on.

Your hazard warning flashers work no matter what position your key is in, and even if the key isn't in.

Press the button again to turn your hazard warning flashers off. When the hazard warning flashers are on, the turn signals won't work.

Other Warning Devices

If you carry reflective triangles, you can set one up at the side of the road about 300 feet (100 m) behind your vehicle.

Jump Starting

If you cannot start your vehicle and you are unable to remove your key from the ignition, see “Shift Lock Release” in the Index.

If your battery has run down, you may want to use another vehicle and some jumper cables to start your vehicle. Please follow the steps below to do it safely.

CAUTION:

Batteries can hurt you. They can be dangerous because:

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

If you don't follow these steps exactly, some or all of these things can hurt you.

NOTICE:

Ignoring these steps could result in costly damage to your vehicle that wouldn't be covered by your warranty.

The ACDelco[®] battery in your vehicle has a built-in hydrometer. Do not charge, test or jump start the battery if the hydrometer looks clear or light yellow. Replace the battery when there is a clear or light yellow hydrometer and a cranking complaint.

Trying to start your vehicle by pushing or pulling it won't work, and it could damage your vehicle.

1. Check the other vehicle. It must have a 12-volt battery with a negative ground system.

NOTICE:

If the other system isn't a 12-volt system with a negative ground, both vehicles can be damaged.

2. Get the vehicles close enough so the jumper cables can reach, but be sure the vehicles aren't touching each other. If they are, it could cause a ground connection you don't want. You wouldn't be able to start your vehicle and the bad grounding could damage the electrical systems.

NOTICE:

To avoid the possibility of the vehicles rolling, set the parking brake firmly on both vehicles involved in the jump start procedure. Put an automatic transaxle in PARK (P).

3. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or accessory power outlets. Turn off all lamps that aren't needed as well as radios. This will avoid sparks and help save both batteries. In addition, it could save your radio!

NOTICE:

If you leave your radio on, it could be badly damaged. The repairs wouldn't be covered by your warranty.

4. Open the hoods and locate the battery on the other vehicle and the remote positive (+) terminal, located on the passenger's side of the engine, on your vehicle. (You will not see the battery under the hood of your vehicle, since it is located under the rear seat on the passenger's side.) Find the positive (+) and negative (-) terminals on the battery in the other vehicle.

You do not need to access your battery for jump starting. The remote positive (+) terminal, located on the driver's side of the engine compartment, is for this purpose.

⚠ CAUTION:

An electric fan can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.



5. Lift and move the red positive (+) terminal cover away from the relay center.

⚠ CAUTION:

Using a match near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.

Be sure the battery has enough water. You don't need to add water to the ACDelco[®] battery installed in every new GM vehicle. But if a battery has filler caps, be sure the right amount of fluid is there. If it is low, add water to take care of that first. If you don't, explosive gas could be present.

Battery fluid contains acid that can burn you. Don't get it on you. If you accidentally get it in your eyes or on your skin, flush the place with water and get medical help immediately.

6. Check that the jumper cables don't have loose or missing insulation. If they do, you could get a shock. The vehicles could also be damaged.

Before you connect the cables, here are some basic things you should know. Positive (+) will go to positive (+) and negative (-) will go to a heavy, unpainted metal engine part. Don't connect positive (+) to the negative (-) or you will get a short that would damage the battery and maybe other parts, too. Also, don't connect the negative (-) cable to negative (-) terminal on the dead battery because this can cause sparks.



7. Connect the red positive (+) cable to the remote positive (+) terminal of your vehicle.



8. Don't let the other end of the positive (+) cable touch metal. Now, connect the red + terminal to the red positive (+) terminal of the other vehicle's battery. Use a remote positive (+) terminal if the vehicle has one.

⚠ CAUTION:

Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.

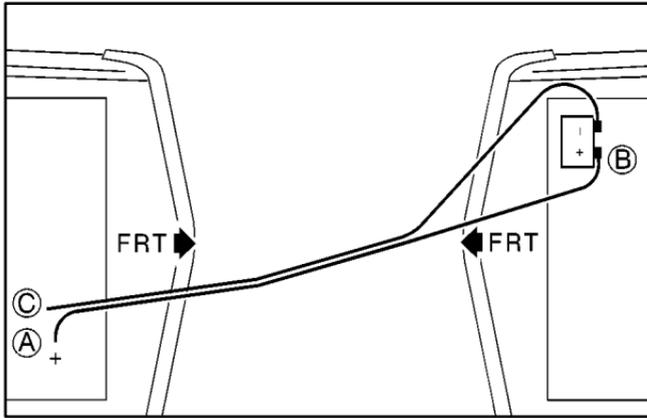


9. Now connect the black negative (-) cable to the good battery's negative (-) terminal.

Don't let the other end of the negative (-) cable touch anything until the next step. The other end of the negative (-) cable *doesn't* go to the dead battery.

10. Your vehicle has a remote negative terminal, marked "GND", located near the power steering fluid reservoir. Attach the cable to the remote negative terminal provided.
11. Now start the vehicle with the good battery and run the engine for a while.
12. Try to start the vehicle with the dead battery. If it won't start after a few tries, it probably needs service.
13. Remove the cables in reverse order to prevent electrical shorting. Take care that they don't touch each other or any other metal. Replace the red positive (+) remote terminal cover to its original position.

Towing Your Vehicle



- A. Remote Positive (+) Terminal
- B. Good Battery
- C. Heavy, Unpainted Metal Engine Part

⚠ CAUTION:

To help avoid serious personal injury to you or others:

- Never let passengers ride in a vehicle that is being towed.
- Never tow faster than safe or posted speeds.
- Never tow with damaged parts not fully secured.
- Never get under your vehicle after it has been lifted by the tow truck.
- Always secure the vehicle on each side with separate safety chains when towing it.
- Use only the correct hooks.

NOTICE:

Use the proper towing equipment to avoid damage to the bumper, fascia or fog lamp areas of the vehicle.

With current trends in automotive styles and design, it is essential that the correct towing equipment is used to tow a vehicle. Your vehicle can be towed with wheel lift or car carrier equipment.

Consult your dealer or a professional towing service if you need to have your vehicle towed. See “Roadside Assistance” in the Index.

Engine Overheating

You will find an ENGINE COOLANT HOT, IDLE ENGINE message or an ENGINE OVERHEATED, STOP ENGINE message on the Driver Information Center (DIC). You will also hear a chime. There is also an engine temperature warning light and/or gage on the instrument panel. See “Engine Coolant Temperature Warning Light” or “Engine Coolant Temperature Gage” in the Index.

Overheated Engine Protection Operating Mode

Should an overheated engine condition exist and the message ENGINE OVERHEATED, STOP ENGINE is displayed, an overheat protection mode which alternates firing groups of cylinders helps prevent engine damage. In this mode, you will notice a loss in power and engine performance. This operating mode allows your vehicle to be driven to a safe place in an emergency; you may drive up to 50 miles (80 km). Towing a trailer in the overheat protection mode should be avoided.

NOTICE:

After driving in the overheated engine protection operating mode, to avoid engine damage, allow the engine to cool before attempting any repair. The engine oil will be severely degraded. Repair the cause of coolant loss, change the oil and reset the oil life indicator. See “Engine Oil” in the Index.

If Steam Is Coming From Your Engine



⚠ CAUTION:

Steam from an overheated engine can burn you badly, even if you just open the hood. Stay away from the engine if you see or hear steam coming from it. Just turn it off and get everyone away from the vehicle until it cools down. Wait until there is no sign of steam or coolant before you open the hood.

If you keep driving when your engine is overheated, the liquids in it can catch fire. You or others could be badly burned. Stop your engine if it overheats, and get out of the vehicle until the engine is cool. See “Overheated Engine Protection Operating Mode” in the Index.

NOTICE:

If your engine catches fire because you keep driving with no coolant, your vehicle can be badly damaged. The costly repairs would not be covered by your warranty. See “Overheated Engine Protection Operating Mode” in the Index.

If No Steam Is Coming From Your Engine

If you get an engine overheat warning but see or hear no steam, the problem may not be too serious. Sometimes the engine can get a little too hot when you:

- Climb a long hill on a hot day.
- Stop after high-speed driving.
- Idle for long periods in traffic.
- Tow a trailer.

If you get the overheat warning with no sign of steam, try this for a minute or so:

1. If your air conditioner is on, turn it off.
2. Dial temperature control to the highest heat setting and open the windows, as necessary.
3. If you're in a traffic jam, shift to NEUTRAL (N); otherwise, shift to the highest gear while driving -- DRIVE (D) or THIRD (3).

If you no longer have the overheat warning, you can drive. Just to be safe, drive slower for about 10 minutes. If the warning doesn't come back on, you can drive normally.

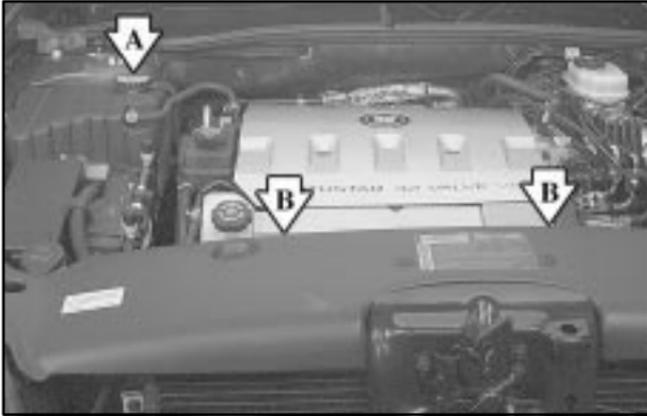
If the warning continues, pull over, stop, and park your vehicle right away.

If there's still no sign of steam, idle the engine for three minutes while you're parked. If you still have the warning, *turn off the engine and get everyone out of the vehicle* until it cools down. Also, see “Overheated Engine Protection Operating Mode” listed previously in this section.

You may decide not to lift the hood but to get service help right away.

Cooling System

When you decide it's safe to lift the hood, here's what you'll see:



A. Coolant Surge Tank with Pressure Cap

B. Electric Engine Cooling Fans

CAUTION:

An electric engine cooling fan under the hood can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.

If the coolant inside the coolant surge tank is boiling, don't do anything else until it cools down.



A low coolant level should be indicated by a CHECK COOLANT LEVEL message on the Driver Information Center. If it is, you may have a leak in the radiator hoses, heater hoses, radiator, water pump or somewhere else in the cooling system.

 **CAUTION:**

Heater and radiator hoses, and other engine parts, can be very hot. Don't touch them. If you do, you can be burned.

Don't run the engine if there is a leak. If you run the engine, it could lose all coolant. That could cause an engine fire, and you could be burned. Get any leak fixed before you drive the vehicle.

NOTICE:

Engine damage from running your engine without coolant isn't covered by your warranty. See "Overheated Engine Protection Operating Mode" in the Index.

NOTICE:

When adding coolant, it is important that you use only DEX-COOL[®] (silicate-free) coolant. If coolant other than DEX-COOL is added to the system, premature engine, heater core or radiator corrosion may result. In addition, the engine coolant will require change sooner -- at 30,000 miles (50 000 km) or 24 months, whichever occurs first. Damage caused by the use of coolant other than DEX-COOL[®] is not covered by your new vehicle warranty.

If there seems to be no leak, with the engine on, check to see if the electric engine cooling fans are running. If the engine is overheating, both fans should be running. If they aren't, your vehicle needs service.

How to Add Coolant to the Coolant Surge Tank

If you haven't found a problem yet, but the coolant level isn't at the proper level (2.5 inches (6.4 cm) below the base of the fill neck), add a 50/50 mixture of *clean, drinkable water* and DEX-COOL[®] coolant at the coolant surge tank, but be sure the cooling system, including the coolant surge tank pressure cap, is cool before you do it. (See "Engine Coolant" in the Index for more information.)

CAUTION:

Steam and scalding liquids from a hot cooling system can blow out and burn you badly. They are under pressure, and if you turn the coolant surge tank pressure cap -- even a little -- they can come

CAUTION: (Continued)

CAUTION: (Continued)

out at high speed. Never turn the cap when the cooling system, including the coolant surge tank pressure cap, is hot. Wait for the cooling system and coolant surge tank pressure cap to cool if you ever have to turn the pressure cap.

CAUTION: (Continued)



 **CAUTION:**

Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid like alcohol, can boil before the proper coolant mixture will. Your vehicle's coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, your engine could get too hot but you wouldn't get the overheat warning. Your engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant.

NOTICE:

In cold weather, water can freeze and crack the engine, radiator, heater core and other parts. So use the recommended coolant.

 **CAUTION:**

You can be burned if you spill coolant on hot engine parts. Coolant contains ethylene glycol and it will burn if the engine parts are hot enough. Don't spill coolant on a hot engine.



1. You can remove the coolant surge tank pressure cap when the cooling system, including the coolant surge tank pressure cap and upper radiator hose, is no longer hot. Turn the pressure cap slowly counterclockwise (left) until it first stops. (Don't press down while turning the pressure cap.)

If you hear a hiss, wait for that to stop. A hiss means there is still some pressure left.



2. Then keep turning the cap, but now push down as you turn it. Remove the pressure cap.



3. Then fill the coolant surge tank with the proper mixture, to the base of the filler neck.



4. With the coolant surge tank pressure cap off, start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fans.

By this time, the coolant level inside the coolant surge tank may be lower. If the level is lower, add more of the proper mixture to the coolant surge tank until the level reaches about 2.5 inches (6.4 cm) below the base of the filler neck.



5. Then replace the pressure cap. Be sure the arrows on the pressure cap line up like this.

Start the engine and allow it to warm up. If the CHECK COOLANT LEVEL message does not appear on the Driver Information Center, coolant is at the proper fill level. If a CHECK COOLANT LEVEL message does appear, repeat Steps 1 to 3 and reinstall the pressure cap or see your dealer.

If a Tire Goes Flat

It's unusual for a tire to “blow out” while you're driving, especially if you maintain your tires properly. If air goes out of a tire, it's much more likely to leak out slowly. But if you should ever have a “blowout,” here are a few tips about what to expect and what to do:

If a front tire fails, the flat tire will create a drag that pulls the vehicle toward that side. Take your foot off the accelerator pedal and grip the steering wheel firmly. Steer to maintain lane position, and then gently brake to a stop well out of the traffic lane.

A rear blowout, particularly on a curve, acts much like a skid and may require the same correction you'd use in a skid. In any rear blowout, remove your foot from the accelerator pedal. Get the vehicle under control by steering the way you want the vehicle to go. It may be very bumpy and noisy, but you can still steer. Gently brake to a stop -- well off the road if possible.

If a tire goes flat, the next part shows how to use your jacking equipment to change a flat tire safely.

Changing a Flat Tire

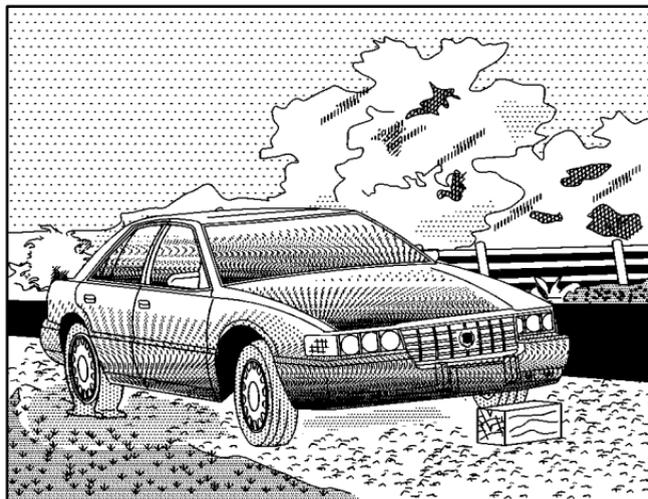
If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on your hazard warning flashers.

CAUTION:

Changing a tire can cause an injury. The vehicle can slip off the jack and roll over you or other people. You and they could be badly injured. Find a level place to change your tire. To help prevent the vehicle from moving:

1. Put the shift lever in PARK (P).
2. Set the parking brake firmly.
3. Turn off the engine.

To be even more certain the vehicle won't move, you can put blocks at the front and rear of the tire farthest away from the one being changed. That would be the tire on the other side of the vehicle, at the opposite end.



The following steps will tell you how to use the jack and change a tire.

Removing the Spare Tire and Tools

The equipment you'll need is in the trunk.

Instructions for changing your tires are on the inside of the tire cover located in your trunk.

To gain access to the instructions, spare tire and jacking equipment, do the following:



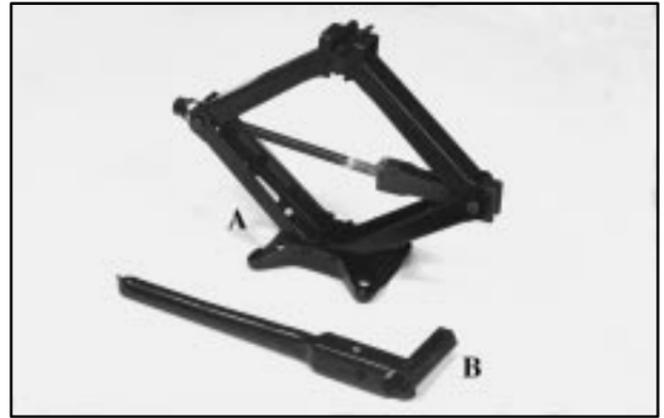
1. Press the area at the front of the handle located on the cover, so that the back edge swings upward.



2. Grab the handle and remove the cover.



3. Unscrew the wing nuts to remove the container that holds the wrench and jack.
4. Remove the wheel wrench, jack and spare tire from the trunk. See “Compact Spare Tire” later in this section for more information about the compact spare tire.



The tools you'll be using include the jack (A) and the wheel wrench (B).

Removing the Wheel Cover



Models with Center Wheel Cover

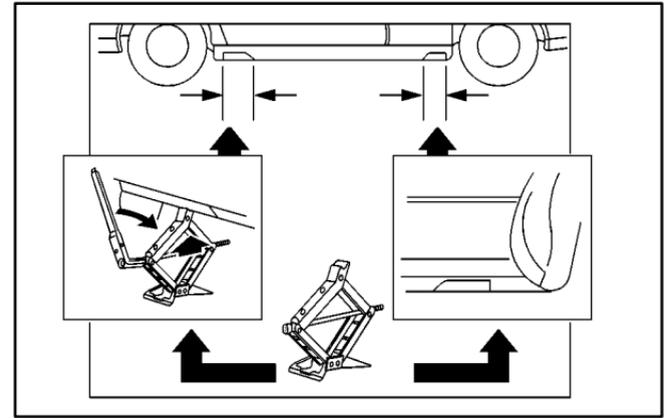
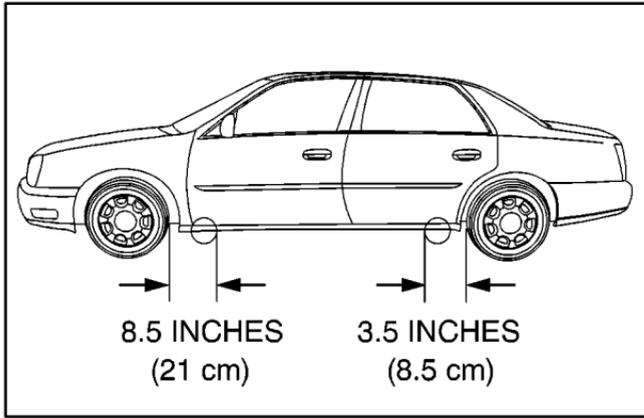
For models having aluminum wheels with a center wheel cover, use the flat end of the wheel wrench to gently pry the wheel covers off. Be careful not to scratch the aluminum wheel edge and don't try to remove it with your hands.

For models having exposed wheel nuts, use the wheel wrench to remove the wheel nut covers.

Removing the Flat Tire and Installing the Spare Tire



1. Using the wheel wrench, loosen all the wheel nuts. Don't remove them yet.



2. Find the jacking location from the diagrams above and corresponding hoisting notches located in the plastic molding. The notches may be labeled "JACK" with an arrow pointing to the jacking location on the vehicle.

⚠ CAUTION:

Getting under a vehicle when it is jacked up is dangerous. If the vehicle slips off the jack, you could be badly injured or killed. Never get under a vehicle when it is supported only by a jack.

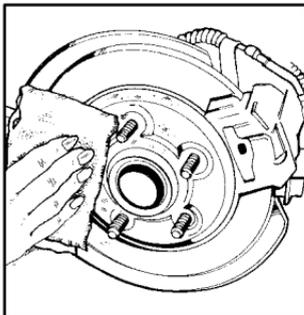
⚠ CAUTION:

Raising your vehicle with the jack improperly positioned can damage the vehicle and even make the vehicle fall. To help avoid personal injury and vehicle damage, be sure to fit the jack lift head into the proper location before raising the vehicle.

3. Turn the jack handle counterclockwise to lower the jack lift head until the jack fits under the vehicle.
4. Raise the jack until the metal flange fits firmly into the channel of the jack head.
5. Put the compact spare near you.



6. Raise the vehicle by turning the jack handle clockwise. Raise the vehicle far enough off the ground for the spare tire to fit under the vehicle.
7. Remove all wheel nuts and take off the flat tire.



8. Remove any rust or dirt from the wheel bolts, mounting surfaces and spare wheel.

⚠ CAUTION:

Rust or dirt on the wheel, or on the parts to which it is fastened, can make the wheel nuts become loose after a time. The wheel could come off and cause an accident. When you change a wheel, remove any rust or dirt from the places where the wheel attaches to the vehicle. In an emergency, you can use a cloth or a paper towel to do this; but be sure to use a scraper or wire brush later, if you need to, to get all the rust or dirt off.

⚠ CAUTION:

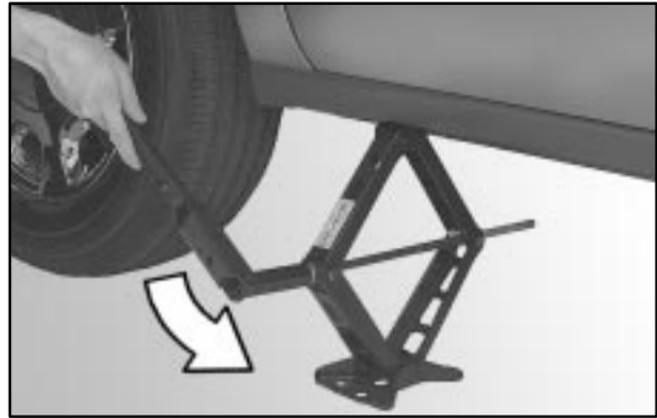
Never use oil or grease on studs or nuts. If you do, the nuts might come loose. Your wheel could fall off, causing a serious accident.



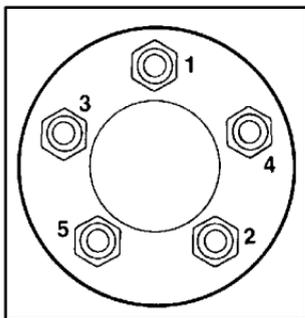
9. Place the spare tire on the wheel-mounting surface.



10. Replace the wheel nuts with the rounded end of the nuts toward the wheel. Tighten each nut by hand until the wheel is held against the hub.



11. Lower the vehicle by turning the jack handle counterclockwise. Lower the jack completely.



12. Tighten the wheel nuts firmly in a crisscross sequence as shown.

If your vehicle is equipped with wheel nut covers, screw them on with your fingers, then tighten one-quarter turn with the wheel wrench.

CAUTION:

Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose and even come off. This could lead to an accident. Be sure to use the correct wheel nuts. If you have to replace them, be sure to get new GM original equipment wheel nuts.

Stop somewhere as soon as you can and have the nuts tightened with a torque wrench to 100 lb-ft (140 N·m).

NOTICE:

Improperly tightened wheel nuts can lead to brake pulsation and rotor damage. To avoid expensive brake repairs, evenly tighten the wheel nuts in the proper sequence and to the proper torque specification.

13. Don't try to put a wheel cover on your compact spare tire. It won't fit. Store the wheel cover and lug nut caps in the trunk until you have the flat tire repaired or replaced.

NOTICE:

Wheel covers won't fit on your compact spare. If you try to put a wheel cover on your compact spare, you could damage the cover or the spare.

Storing the Flat Tire and Tools



CAUTION:

Storing a jack, a tire or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place.

After you've put the compact spare tire on your vehicle, you'll need to store the flat tire in your trunk.

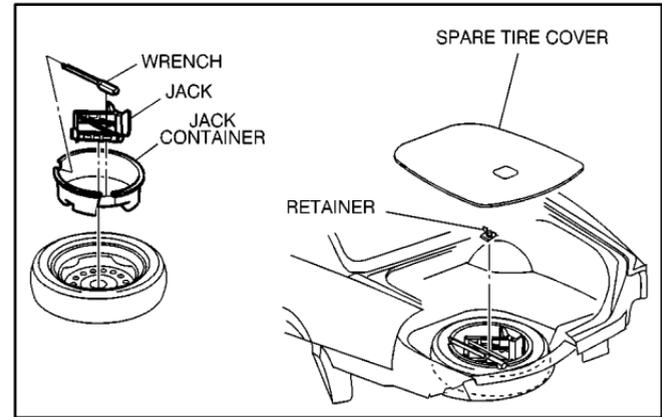
Store the flat tire as far forward in the trunk as possible. Store the jack and wheel wrench in their compartment in the trunk. For storage, the jack must be raised until the screw end is flush with the edge of the jack.

Storing the Spare Tire and Tools

CAUTION:

Storing a jack, a tire or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place.

The compact spare is for temporary use only. Replace the compact spare tire with a full-size tire as soon as you can. See “Compact Spare Tire” in the index. Check the storage instructions label for information on how to properly position and store the compact spare tire.



Compact Spare Tire

Although the compact spare tire was fully inflated when your vehicle was new, it can lose air after a time. Check the inflation pressure regularly. It should be 60 psi (420 kPa).

After installing the compact spare on your vehicle, you should stop as soon as possible and make sure your spare tire is correctly inflated. The compact spare is made to perform well at speeds up to 65 mph (105 km/h) for distances up to 3,000 miles (5 000 km), so you can finish your trip and have your full-size tire repaired or replaced where you want. Of course, it's best to replace your spare with a full-size tire as soon as you can. Your spare will last longer and be in good shape in case you need it again.

NOTICE:

When the compact spare is installed, don't take your vehicle through an automatic car wash with guide rails. The compact spare can get caught on the rails. That can damage the tire and wheel, and maybe other parts of your vehicle.

Don't use your compact spare on other vehicles.

And don't mix your compact spare tire or wheel with other wheels or tires. They won't fit. Keep your spare tire and its wheel together.

NOTICE:

Tire chains won't fit your compact spare. Using them can damage your vehicle and can damage the chains too. Don't use tire chains on your compact spare.

If You're Stuck: In Sand, Mud, Ice or Snow

In order to free your vehicle when it is stuck, you will need to spin the wheels, but you don't want to spin your wheels too fast. The method known as "rocking" can help you get out when you're stuck, but you must use caution.

CAUTION:

If you let your tires spin at high speed, they can explode, and you or others could be injured. And, the transaxle or other parts of the vehicle can overheat. That could cause an engine compartment fire or other damage. When you're stuck, spin the wheels as little as possible. Don't spin the wheels above 35 mph (55 km/h) as shown on the speedometer.

NOTICE:

Spinning your wheels can destroy parts of your vehicle as well as the tires. If you spin the wheels too fast while shifting your transaxle back and forth, you can destroy your transaxle.

For information about using tire chains on your vehicle, see "Tire Chains" in the Index.

Rocking Your Vehicle To Get It Out

First, turn your steering wheel left and right. That will clear the area around your front wheels. You should turn your traction control system off. (See "Traction Control System" in the Index.) Then shift back and forth between REVERSE (R) and a forward gear, spinning the wheels as little as possible. Release the accelerator pedal while you shift, and press lightly on the accelerator pedal when the transaxle is in gear. By slowly spinning your wheels in the forward and reverse directions, you will cause a rocking motion that may free your vehicle. If that doesn't get you out after a few tries, you may need to be towed out. If you do need to be towed out, see "Towing Your Vehicle" in the Index.



Section 6 Service and Appearance Care

Here you will find information about the care of your vehicle. This section begins with service and fuel information, and then it shows how to check important fluid and lubricant levels. There is also technical information about your vehicle, and a part devoted to its appearance care.

6-2	Service	6-44	Windshield Wiper Blade Replacement
6-3	Fuel	6-45	Tires
6-5	Fuels in Foreign Countries	6-54	Appearance Care
6-5	Filling Your Tank	6-54	Cleaning the Inside of Your Vehicle
6-8	Filling a Portable Fuel Container	6-57	Cleaning the Outside of Your Vehicle
6-8	Checking Things Under the Hood	6-59	Cleaning Aluminum or Chrome-Plated Wheels (If Equipped)
6-11	Engine Oil	6-60	Underbody Maintenance
6-16	Engine Air Cleaner/Filter	6-60	Chemical Paint Spotting
6-20	Automatic Transaxle Fluid	6-61	GM Vehicle Care/Appearance Materials
6-24	Engine Coolant	6-62	Vehicle Identification Number (VIN)
6-27	Surge Tank Pressure Cap	6-63	Electrical System
6-27	Power Steering Fluid	6-67	Removing the Rear Seat Cushion
6-28	Windshield Washer Fluid	6-71	Replacement Bulbs
6-29	Brakes	6-71	Capacities and Specifications
6-33	Battery	6-72	Normal Maintenance Replacement Parts
6-35	Bulb Replacement		

Service

Your dealer knows your vehicle best and wants you to be happy with it. We hope you'll go to your dealer for all your service needs. You'll get genuine GM parts and GM-trained and supported service people.

We hope you'll want to keep your GM vehicle all GM. Genuine GM parts have one of these marks:

ACDelco[®]

Genuine



Parts



Goodwrench

Doing Your Own Service Work

If you want to do some of your own service work, you'll want to use the proper service manual. It tells you much more about how to service your vehicle than this manual can. To order the proper service manual, see "Service and Owner Publications" in the Index.

Your vehicle has an air bag system. Before attempting to do your own service work, see "Servicing Your Air Bag-Equipped Vehicle" in the Index.

You should keep a record with all parts receipts and list the mileage and the date of any service work you perform. See "Maintenance Record" in the Maintenance Schedule booklet.



CAUTION:

You can be injured and your vehicle could be damaged if you try to do service work on a vehicle without knowing enough about it.

- **Be sure you have sufficient knowledge, experience, the proper replacement parts and tools before you attempt any vehicle maintenance task.**
- **Be sure to use the proper nuts, bolts and other fasteners. “English” and “metric” fasteners can be easily confused. If you use the wrong fasteners, parts can later break or fall off. You could be hurt.**

Adding Equipment to the Outside of Your Vehicle

Things you might add to the outside of your vehicle can affect the airflow around it. This may cause wind noise and affect windshield washer performance. Check with your dealer before adding equipment to the outside of your vehicle.

Fuel

Use premium unleaded gasoline rated at 91 octane or higher for best performance. You may use middle grade or regular unleaded gasolines, but your vehicle’s acceleration may be slightly reduced.

It is recommended that the gasoline meet specifications which have been developed by the American Automobile Manufacturers Association (AAMA) and endorsed by the Canadian Motor Vehicle Manufacturers Association for better vehicle performance and engine protection. Gasolines meeting the AAMA specification could provide improved driveability and emission control system performance compared to other gasolines.

Be sure the posted octane for premium is at least 91 (at least 87 for regular). If the octane is less than 87, you may get a heavy knocking noise when you drive. If it’s bad enough, it can damage your engine.

If you’re using fuel rated at the recommended octane or higher and you hear heavy knocking, your engine needs service. But don’t worry if you hear a little pinging noise when you’re accelerating or driving up a hill. That’s normal, and you don’t have to buy a higher octane fuel to get rid of pinging. It’s the heavy, constant knock that means you have a problem.

If your vehicle is certified to meet California Emission Standards (indicated on the underhood emission control label), it is designed to operate on fuels that meet California specifications. If such fuels are not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. The malfunction indicator lamp on your instrument panel may turn on and/or your vehicle may fail a smog-check test. (See “Malfunction Indicator Lamp” in the Index.) If this occurs, return to your authorized Cadillac dealer for diagnosis to determine the cause of failure. In the event it is determined that the cause of the condition is the type of fuels used, repairs may not be covered by your warranty.

Some gasolines that are not reformulated for low emissions may contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT); ask your service station operator whether or not the fuel contains MMT. General Motors does not recommend the use of such gasolines. If fuels containing MMT are used, spark plug life may be reduced and your emission control system performance may be affected. The malfunction indicator lamp on your instrument panel may turn on. If this occurs, return to your authorized Cadillac dealer for service.

To provide cleaner air, all gasolines in the United States are now required to contain additives that will help prevent deposits from forming in your engine and fuel system, allowing your emission control system to function properly. Therefore, you should not have to add anything to the fuel. In addition, gasolines containing oxygenates, such as ethers and ethanol, and reformulated gasolines may be available in your area to contribute to clean air. General Motors recommends that you use these gasolines, particularly if they comply with the specifications described earlier.

NOTICE:

Your vehicle was not designed for fuel that contains methanol. Don't use it. It can corrode metal parts in your fuel system and also damage plastic and rubber parts. That damage wouldn't be covered under your warranty.

Fuels in Foreign Countries

If you plan on driving in another country outside the United States or Canada, the proper fuel may be hard to find. Never use leaded gasoline or any other fuel not recommended in the previous text on fuel. Costly repairs caused by use of improper fuel wouldn't be covered by your warranty.

To check on fuel availability, ask an auto club, or contact a major oil company that does business in the country where you'll be driving.

You can also write us at the following address for advice. Just tell us where you're going and give your Vehicle Identification Number (VIN).

General Motors Overseas Distribution Corporation
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Filling Your Tank

CAUTION:

Gasoline vapor is highly flammable. It burns violently, and that can cause very bad injuries. Don't smoke if you're near gasoline or refueling your vehicle. Keep sparks, flames and smoking materials away from gasoline.



The cap is located behind a hinged door on the driver's side of your vehicle.

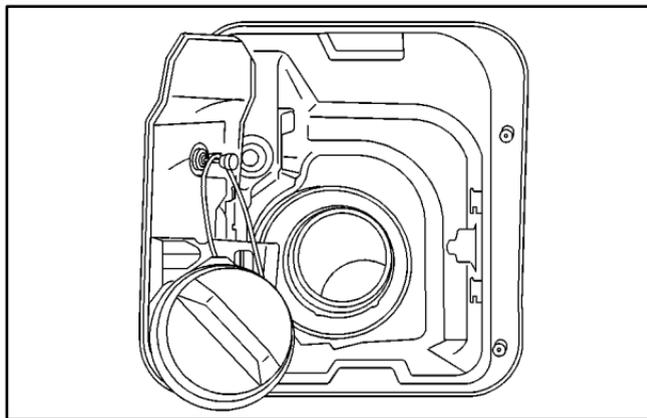


The fuel door release button is located to the left of the steering wheel next to the headlamp knob.

The button only works in PARK (P) or NEUTRAL (N) when the ignition key is in any position and the VALET lockout button is in the OFF position.



An alternate fuel door release is located inside of the trunk on the driver's side. Pull it to release the fuel door.



While refueling, hang the cap by the tether from the hook on the filler door.

To remove the cap, turn it slowly to the left (counterclockwise). The cap has a spring in it; if you let go of the cap too soon, it will spring back to the right.



CAUTION:

If you get gasoline on yourself and then something ignites it, you could be badly burned. Gasoline can spray out on you if you open the fuel filler cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel filler cap slowly and wait for any “hiss” noise to stop. Then unscrew the cap all the way.

Be careful not to spill gasoline. Clean gasoline from painted surfaces as soon as possible. See “Cleaning the Outside of Your Vehicle” in the Index.

When you put the cap back on, turn it to the right (clockwise) until you hear a clicking sound. Make sure you fully install the cap. The diagnostic system can determine if the fuel cap has been left off or improperly installed. This would allow fuel to evaporate into the atmosphere. See “Malfunction Indicator Lamp” in the Index.

NOTICE:

If you need a new cap, be sure to get the right type. Your dealer can get one for you. If you get the wrong type, it may not fit properly. This may cause your malfunction indicator lamp to light and your fuel tank and emissions system may be damaged. See “Malfunction Indicator Lamp” in the Index.

Filling a Portable Fuel Container

CAUTION:

Never fill a portable fuel container while it is in your vehicle. Static electricity discharge from the container can ignite the gasoline vapor. You can be badly burned and your vehicle damaged if this occurs. To help avoid injury to you and others:

- Dispense gasoline only into approved containers.
- Do not fill a container while it is inside a vehicle, in a vehicle's trunk, pickup bed or on any surface other than the ground.
- Bring the fill nozzle in contact with the inside of the fill opening before operating the nozzle. Contact should be maintained until the filling is complete.
- Don't smoke while pumping gasoline.

Checking Things Under the Hood

CAUTION:

An electric fan under the hood can start up and injure you even when the engine is not running. Keep hands, clothing and tools away from any underhood electric fan.

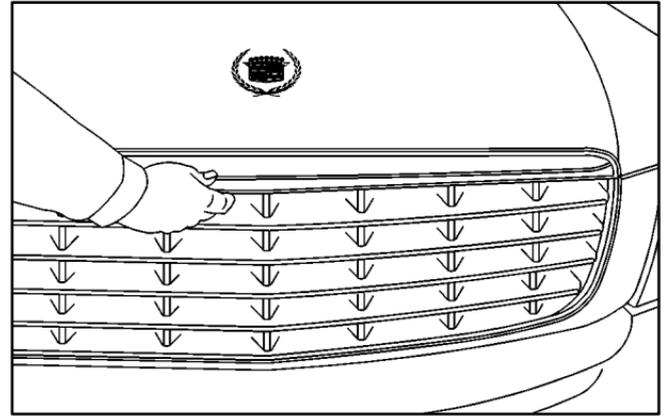
CAUTION:

Things that burn can get on hot engine parts and start a fire. These include liquids like gasoline, oil, coolant, brake fluid, windshield washer and other fluids, and plastic or rubber. You or others could be burned. Be careful not to drop or spill things that will burn onto a hot engine.

Hood Release

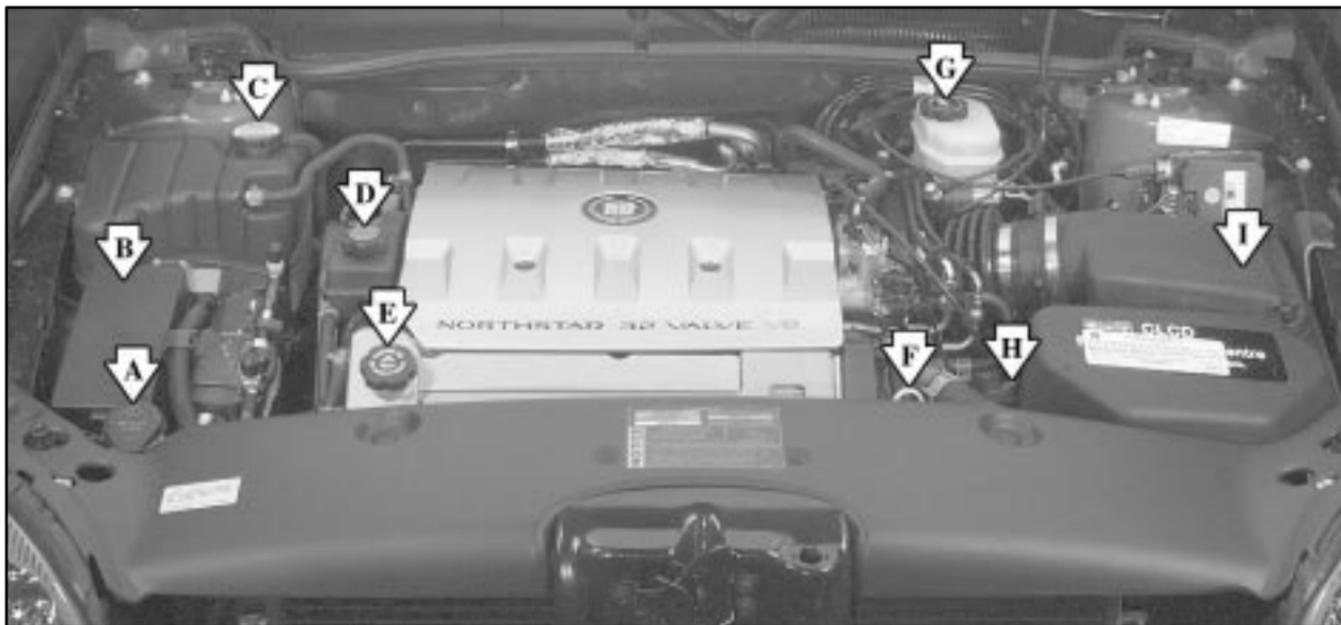


Pull the lever inside the vehicle to open the hood. It is located on the lower driver's side of the instrument panel.



Then go to the front of the vehicle and find the secondary hood release lever which is located under the front edge of the grille. Lift up on the release lever as you raise the hood.

When you open the hood, you'll see:



- A. Windshield Washer Fluid Reservoir
- B. Underhood Junction Block
- C. Engine Coolant Surge Tank
- D. Power Steering Fluid
- E. Engine Oil Fill Cap

- F. Engine Oil Dipstick
- G. Brake Master Cylinder
- H. Transaxle Dipstick/Fluid Fill Location
- I. Engine Air Cleaner Filter

Before closing the hood, be sure all filler caps are on properly. Then pull the hood down and close it firmly.

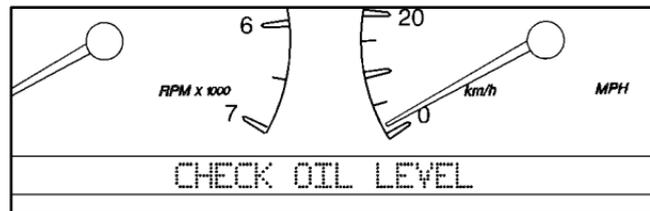
Underhood Lamp

Turn the parking lamps on to operate the underhood lamp. The underhood lamp will come on when the hood is opened.

Engine Oil

If the CHECK OIL LEVEL message appears on the instrument panel, it means you need to check your engine oil level right away. For more information, see “Checking Engine Oil” in the Index.

You should check your engine oil level regularly; this is an added reminder.



Analog Cluster, Digital Cluster similar

A CHECK OIL LEVEL message will appear when the engine oil is approximately 1 quart (1L) low. If the message is displayed, check the dipstick level and add oil as needed.

Checking Engine Oil

It's a good idea to check your engine oil every time you get fuel. In order to get an accurate reading, the oil must be warm and the vehicle must be on level ground.



The engine oil dipstick is located behind the radiator on the driver's side of the engine. The handle says ENGINE OIL on it.

Turn off the engine and give the oil several minutes to drain back into the oil pan. If you don't, the oil dipstick might not show the actual level.

Pull out the dipstick and clean it with a paper towel or cloth, then push it back in all the way. Remove it again, keeping the tip down, and check the level.



When to Add Engine Oil

If the oil is at or below the ADD line, then you'll need to add at least one quart of oil. But you must use the right kind. This part explains what kind of oil to use. For crankcase capacity, see "Capacities and Specifications" in the Index.

NOTICE:

Don't add too much oil. If your engine has so much oil that the oil level gets above the upper mark that shows the proper operating range, your engine could be damaged.



The oil fill cap is located behind the radiator on the passenger's side of the engine. Turn the cap counterclockwise to remove it.

Be sure to fill it enough to put the level somewhere in the proper operating range. Push the dipstick all the way back in when you're through.

What Kind of Engine Oil to Use

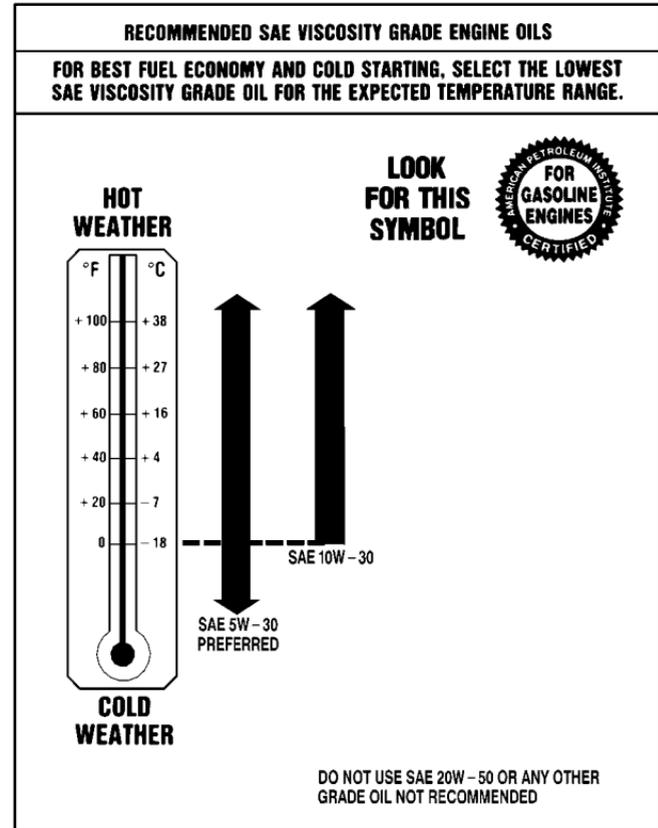
Oils recommended for your vehicle can be identified by looking for the starburst symbol.

This symbol indicates that the oil has been certified by the American Petroleum Institute (API). Do not use any oil which does not carry this starburst symbol.



If you change your own oil, be sure you use oil that has the starburst symbol on the front of the oil container. If you have your oil changed for you, be sure the oil put into your engine is American Petroleum Institute certified for gasoline engines.

You should also use the proper viscosity oil for your vehicle, as shown in the following chart:



As shown in the chart, SAE 5W-30 is best for your vehicle. However, you can use SAE 10W-30 if it's going to be 0°F (-18°C) or above. These numbers on an oil container show its viscosity, or thickness. Do not use other viscosity oils, such as SAE 20W-50.

NOTICE:

Use only engine oil with the American Petroleum Institute Certified For Gasoline Engines starburst symbol. Failure to use the recommended oil can result in engine damage not covered by your warranty.

GM Goodwrench® oil meets all the requirements for your vehicle.

If you are in an area where the temperature falls below -20°F (-29°C), consider using either an SAE 5W-30 synthetic oil or an SAE 0W-30 oil. Both will provide easier cold starting and better protection for your engine at extremely low temperatures.

Engine Oil Additives

Don't add anything to your oil. The recommended oils with the starburst symbol are all you will need for good performance and engine protection.

When to Change Engine Oil

Your vehicle has a computer that lets you know when to change your engine oil. This is not based on mileage, but on engine revolutions and engine operating temperature. When the computer has calculated that the oil needs changing, the GM Oil Life System™ will indicate that a change is necessary. The mileage between oil and filter changes will vary depending on how you drive your vehicle -- usually between 3,000 miles (5 000 km) and 10,000 miles (16 000 km) since your last oil and filter change. Under severe conditions, the system may come on before 3,000 miles (5 000 km). Never drive your vehicle more than 10,000 miles (16 000 km) or 12 months (whichever occurs first) without an oil change.

The system won't detect dust in the oil. So, if you drive in a dusty area, be sure to change your oil and filter every 3,000 miles (5 000 km) or sooner. Remember to reset the Oil Life Indicator whenever the oil is changed.

How to Reset the Oil Life Indicator

After the oil has been changed, display the OIL LIFE message by pressing the INFO button. Then press and hold the RESET button until the display shows 100% ENGINE OIL LIFE. This resets the oil life index. The percentage of oil life remaining may be checked at any time by pressing the INFO button several times until the OIL LIFE message appears. For more information on the oil life feature, see “Oil Life Indicator” in the Index.

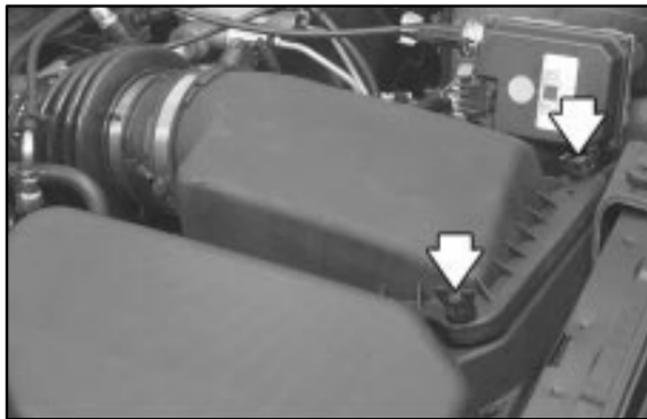
What to Do with Used Oil

Did you know that used engine oil contains certain elements that may be unhealthy for your skin and could even cause cancer? Don't let used oil stay on your skin for very long. Clean your skin and nails with soap and water, or a good hand cleaner. Wash or properly throw away clothing or rags containing used engine oil. (See the manufacturer's warnings about the use and disposal of oil products.)

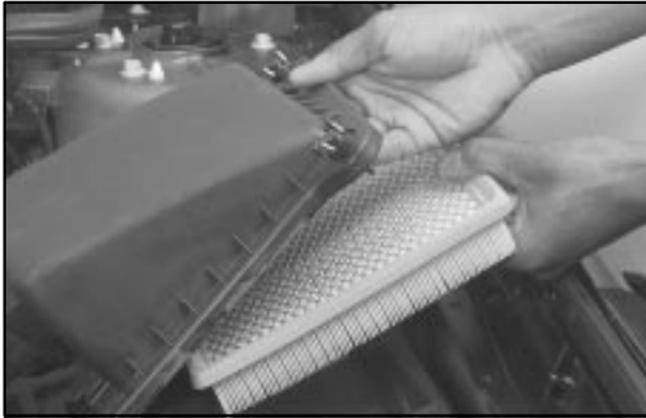
Used oil can be a real threat to the environment. If you change your own oil, be sure to drain all free-flowing oil from the filter before disposal. Don't ever dispose of oil by putting it in the trash, pouring it on the ground, into sewers, or into streams or bodies of water. Instead, recycle it by taking it to a place that collects used oil. If you have a problem properly disposing of your used oil, ask your dealer, a service station or a local recycling center for help.

Engine Air Cleaner/Filter

The engine air cleaner filter is located on the driver's side of the engine. Be sure the engine has cooled before following these steps to replace the air cleaner filter:



1. Loosen both wing nuts on the top of the air cleaner assembly.
2. Lift up the outboard side of the air cleaner cover at an angle while pulling toward you to remove the cover.



3. Remove the air filter element and any loose debris that may be found laying in the air cleaner base.
4. Replace the air filter element.

Follow these steps to reinstall the air cleaner cover to the air cleaner housing:

1. When installing the air cleaner cover, be sure to align the two tabs located on the back of the air cleaner cover with the two slots on the back of the air cleaner housing.
2. Push slightly down and forward to slide the air cleaner cover and housing back into place and close.
3. Reinstall and tighten the two wing nuts on the top of the air cleaner assembly.

Refer to the Maintenance Schedule to determine when to replace the air filter.

See “Scheduled Maintenance Services” in the Maintenance Schedule booklet.

⚠ CAUTION:

Operating the engine with the air cleaner/filter off can cause you or others to be burned. The air cleaner not only cleans the air, it stops flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Don't drive with it off, and be careful working on the engine with the air cleaner/filter off.

NOTICE:

If the air cleaner/filter is off, a backfire can cause a damaging engine fire. And, dirt can easily get into your engine, which will damage it. Always have the air cleaner/filter in place when you're driving.

Passenger Compartment Air Filter Replacement

The passenger compartment air filter traps most of the pollen from the air entering your vehicle. Like your vehicle's air cleaner filter, it may need to be changed periodically. For how often to change the passenger compartment air filter, see your Maintenance Schedule booklet.



The access panel for the passenger compartment air filter is located under the hood near the windshield, on the passenger's side of the vehicle.



1. To access the passenger compartment air filter, insert the flat tip of a screwdriver into the outer edge of the cover and gently pry the cover up.



2. Then, insert the flat tip of the screwdriver behind the push pin located on the inboard side of the air filter compartment to carefully pry the pin out.



3. To remove the air filter, insert the flat tip of the screwdriver between the air filter and the compartment wall on the outboard side of the vehicle. Then, push in to flatten the pin holding the air filter in place. Gently remove the air filter and any loose debris that may be inside the air filter compartment.

Insert the new air filter, by pushing until you hear a click. Then, reinstall the push pin and snap the cover into place.

Automatic Transaxle Fluid

When to Check and Change

A good time to check your automatic transaxle fluid level is when the engine oil is changed.

Change both the fluid and filter every 50,000 miles (83 000 km) if the vehicle is mainly driven under one or more of these conditions:

- In heavy city traffic where the outside temperature regularly reaches 90°F (32°C) or higher.
- In hilly or mountainous terrain.
- When doing frequent trailer towing.
- Uses such as found in taxi, police or delivery service.
- Use such as limousine service.

If you do not use your vehicle under any of these conditions, the fluid and filter do not require change until the message CHANGE TRANS FLUID appears on the Driver Information Center.

See “Scheduled Maintenance Services” in the Maintenance Schedule booklet.

How to Check

Because this operation can be a little difficult, you may choose to have this done at the dealership service department.

If you do it yourself, be sure to follow all the instructions here, or you could get a false reading on the dipstick.

NOTICE:

Too much or too little fluid can damage your transaxle. Too much can mean that some of the fluid could come out and fall on hot engine parts or exhaust system parts, starting a fire. Be sure to get an accurate reading if you check your transaxle fluid.

Wait at least 30 minutes before checking the transaxle fluid level if you have been driving:

- When outside temperatures are above 90°F (32°C).
- At high speed for quite a while.
- In heavy traffic -- especially in hot weather.
- While pulling a trailer.

To get the right reading, the fluid should be at normal operating temperature, which is 180°F to 200°F (82°C to 93°C).

Get the vehicle warmed up by driving about 15 miles (24 km) when outside temperatures are above 50°F (10°C). If it's colder than 50°F (10°C), you may have to drive longer.

Checking the Fluid Level

Prepare your vehicle as follows:

- Park your vehicle on a level place. Keep the engine running.
- With the parking brake applied, place the shift lever in PARK (P).
- With your foot on the brake pedal, move the shift lever through each gear range, pausing for about three seconds in each range. Then, position the shift lever in PARK (P).
- Let the engine run at idle for three to five minutes.

Then, without shutting off the engine, follow these steps:



1. The transaxle fluid cap is located next to the radiator hose and below the air cleaner assembly on the driver's side of the engine. Remove the air cleaner assembly so you can reach the transaxle fluid cap. Turn the transaxle fluid cap counterclockwise to remove. Pull out the dipstick and wipe it with a clean rag or paper towel.
2. Push it back in all the way, wait three seconds and then pull it back out again.



3. Check both sides of the dipstick, and read the lower level. The fluid level must be in the cross-hatched area.
4. If the fluid level is in the acceptable range, push the dipstick back in all the way. Reinstall the air cleaner assembly.

How to Add Fluid

Refer to the Maintenance Schedule to determine what kind of transaxle fluid to use. See “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet.

If the fluid level is low, add only enough of the proper fluid to bring the level into the cross-hatched area on the dipstick.

1. Pull out the dipstick.
2. Using a long-neck funnel, add enough fluid at the dipstick hole to bring it to the proper level.

It doesn't take much fluid, generally less than one pint (0.5 L). *Don't overfill.*

NOTICE:

We recommend you use only fluid labeled DEXRON®-III, because fluid with that label is made especially for your automatic transaxle. Damage caused by fluid other than DEXRON®-III is not covered by your new vehicle warranty.

3. After adding fluid, recheck the fluid level as described under “How to Check.”
4. When the correct fluid level is obtained, push the dipstick back in all the way.

How to Reset Transaxle Fluid Change Indicator

After the transaxle fluid has been changed, display the transaxle FLUID LIFE message by pressing the INFO button. Then press and hold the INFO RESET button until the display shows “100”. This resets the transaxle fluid life index. The percentage of transaxle fluid life remaining may be checked at any time by pressing the INFO button several times until the transaxle FLUID LIFE message appears.

Engine Coolant

The cooling system in your vehicle is filled with DEX-COOL[®] engine coolant. This coolant is designed to remain in your vehicle for 5 years or 150,000 miles (240 000 km), whichever occurs first, if you add only DEX-COOL[®] extended life coolant.

The following explains your cooling system and how to add coolant when it is low. If you have a problem with engine overheating, see “Engine Overheating” in the Index.

A 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant will:

- Give freezing protection down to -34°F (-37°C).
- Give boiling protection up to 265°F (129°C).
- Protect against rust and corrosion.
- Help keep the proper engine temperature.
- Let the warning lights and gages work as they should.

NOTICE:

When adding coolant, it is important that you use only DEX-COOL[®] (silicate-free) coolant. If coolant other than DEX-COOL is added to the system, premature engine, heater core or radiator corrosion may result. In addition, the engine coolant will require change sooner -- at 30,000 miles (50 000 km) or 24 months, whichever occurs first. Damage caused by the use of coolant other than DEX-COOL[®] is not covered by your new vehicle warranty.

What to Use

Use a mixture of one-half *clean, drinkable water* and one-half DEX-COOL[®] coolant which won't damage aluminum parts. If you use this coolant mixture, you don't need to add anything else.



CAUTION:

Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid like alcohol, can boil before the proper coolant mixture will. Your vehicle's coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, your engine could get too hot but you wouldn't get the overheat warning. Your engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant.

NOTICE:

If you use an improper coolant mixture, your engine could overheat and be badly damaged. The repair cost wouldn't be covered by your warranty. Too much water in the mixture can freeze and crack the engine, radiator, heater core and other parts.

If you have to add coolant more than four times a year, have your dealer check your cooling system.

NOTICE:

If you use the proper coolant, you don't have to add extra inhibitors or additives which claim to improve the system. These can be harmful.

Checking Coolant



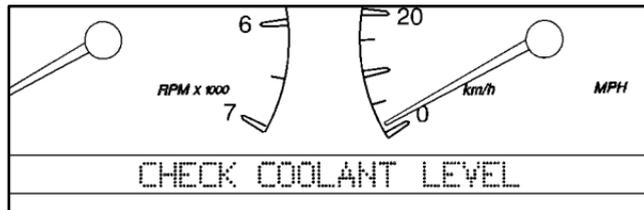
The surge tank is located on the passenger's side of the engine.

The cooling system is under a lot of pressure when it is hot. If the CHECK COOLANT LEVEL message appears on the Driver Information Center (DIC), you will need to add coolant.

CAUTION:

Turning the surge tank pressure cap when the engine and radiator are hot can allow steam and scalding liquids to blow out and burn you badly. Never turn the surge tank pressure cap -- even a little -- when the engine and radiator are hot.

The vehicle must be on a level surface. When your engine is cold, the coolant level should be at the full cold mark, below the base of the fill neck. Use a flashlight as necessary to see into the tank.



If the CHECK COOLANT LEVEL message comes on and stays on, it means you're low on engine coolant.

For more information, see "Check Coolant Level Message" in the Index.

Adding Coolant

If you need more coolant, add the proper DEX-COOL[®] coolant mixture *at the surge tank*, but only when the engine is cool.

CAUTION:

You can be burned if you spill coolant on hot engine parts. Coolant contains ethylene glycol, and it will burn if the engine parts are hot enough. Don't spill coolant on a hot engine.

When replacing the pressure cap, make sure it is hand-tight.

Surge Tank Pressure Cap

NOTICE:

The surge tank cap is a 15 psi (105 kPa) pressure-type cap and must be tightly installed to prevent coolant loss and possible engine damage from overheating. Be sure the arrow on the cap lines up with the overflow hose.

Power Steering Fluid



The power steering fluid reservoir is located between the fuse block relay center and the engine on the passenger's side of the vehicle.

When to Check Power Steering Fluid

It is not necessary to regularly check power steering fluid unless you suspect there is a leak in the system or you hear an unusual noise. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

How to Check Power Steering Fluid

When the engine compartment is cool, wipe the cap and the top of the reservoir clean, then unscrew the cap and wipe the dipstick with a clean rag. Replace the cap and completely tighten it. Then remove the cap again and look at the fluid level on the dipstick.

The level should be at the FULL COLD mark. If necessary, add only enough fluid to bring the level up to the mark.

What to Use

To determine what kind of fluid to use, see “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet. Always use the proper fluid. Failure to use the proper fluid can cause leaks and damage hoses and seals.

Windshield Washer Fluid

What to Use

When you need windshield washer fluid, be sure to read the manufacturer’s instructions before use. If you will be operating your vehicle in an area where the temperature may fall below freezing, use a fluid that has sufficient protection against freezing.

Adding Washer Fluid

The CHECK WASHER FLUID message will be displayed on the Driver Information Center (DIC) when the fluid is low.



The windshield washer fluid reservoir is located in front of the fuse block relay center on the passenger’s side of the vehicle.

Open the cap labeled WASHER FLUID. Add washer fluid until the tank is full.

NOTICE:

- When using concentrated washer fluid, follow the manufacturer's instructions for adding water.
- Don't mix water with ready-to-use washer fluid. Water can cause the solution to freeze and damage your washer fluid tank and other parts of the washer system. Also, water doesn't clean as well as washer fluid.
- Fill your washer fluid tank only three-quarters full when it's very cold. This allows for expansion if freezing occurs, which could damage the tank if it is completely full.
- Don't use engine coolant (antifreeze) in your windshield washer. It can damage your washer system and paint.

Brakes

Brake Fluid



Your brake master cylinder reservoir is on the driver's side of the engine compartment. It is filled with DOT-3 brake fluid.

There are only two reasons why the brake fluid level in the reservoir might go down. The first is that the brake fluid goes down to an acceptable level during normal brake lining wear. When new linings are put in, the fluid level goes back up. The other reason is that fluid is leaking out of the brake system. If it is, you should have your brake system fixed, since a leak means that sooner or later your brakes won't work well, or won't work at all.

So, it isn't a good idea to "top off" your brake fluid. Adding brake fluid won't correct a leak. If you add fluid when your linings are worn, then you'll have too much fluid when you get new brake linings. You should add (or remove) brake fluid, as necessary, only when work is done on the brake hydraulic system.



CAUTION:

If you have too much brake fluid, it can spill on the engine. The fluid will burn if the engine is hot enough. You or others could be burned, and your vehicle could be damaged. Add brake fluid only when work is done on the brake hydraulic system.

When your brake fluid falls to a low level, your brake warning light will come on. See "Brake System Warning Light" in the Index.

What to Add

When you do need brake fluid, use only DOT-3 brake fluid. Use new brake fluid from a sealed container only. Refer to “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet.

Always clean the brake fluid reservoir cap and the area around the cap before removing it. This will help keep dirt from entering the reservoir.

CAUTION:

With the wrong kind of fluid in your brake system, your brakes may not work well, or they may not even work at all. This could cause a crash. Always use the proper brake fluid.

NOTICE:

- **Using the wrong fluid can badly damage brake system parts. For example, just a few drops of mineral-based oil, such as engine oil, in your brake system can damage brake system parts so badly that they’ll have to be replaced. Don’t let someone put in the wrong kind of fluid.**
- **If you spill brake fluid on your vehicle’s painted surfaces, the paint finish can be damaged. Be careful not to spill brake fluid on your vehicle. If you do, wash it off immediately. See “Appearance Care” in the Index.**

Brake Wear

Your vehicle has four-wheel disc brakes.

Disc brake pads have built-in wear indicators that make a high-pitched warning sound when the brake pads are worn and new pads are needed. The sound may come and go or be heard all the time your vehicle is moving (except when you are pushing on the brake pedal firmly).

CAUTION:

The brake wear warning sound means that soon your brakes won't work well. That could lead to an accident. When you hear the brake wear warning sound, have your vehicle serviced.

NOTICE:

Continuing to drive with worn-out brake pads could result in costly brake repair.

Some driving conditions or climates may cause a brake squeal when the brakes are first applied or lightly applied. This does not mean something is wrong with your brakes.

Properly torqued wheel nuts are necessary to help prevent brake pulsation. When tires are rotated, inspect brake pads for wear and evenly torque wheel nuts in the proper sequence to GM specifications.

Brake linings should always be replaced as complete axle sets.

See “Brake System Inspection” in the Maintenance Schedule booklet under Part C “Periodic Maintenance Inspections.”

Brake Pedal Travel

See your dealer if the brake pedal does not return to normal height, or if there is a rapid increase in pedal travel. This could be a sign of brake trouble.

Brake Adjustment

Every time you apply the brakes, with or without the vehicle moving, your brakes adjust for wear.

Replacing Brake System Parts

The braking system on a vehicle is complex. Its many parts have to be of top quality and work well together if the vehicle is to have really good braking. Your vehicle was designed and tested with top-quality GM brake parts. When you replace parts of your braking system -- for example, when your brake linings wear down and you have to have new ones put in -- be sure you get new approved GM replacement parts. If you don't, your brakes may no longer work properly. For example, if someone puts in brake linings that are wrong for your vehicle, the balance between your front and rear brakes can change -- for the worse. The braking performance you've come to expect can change in many other ways if someone puts in the wrong replacement brake parts.

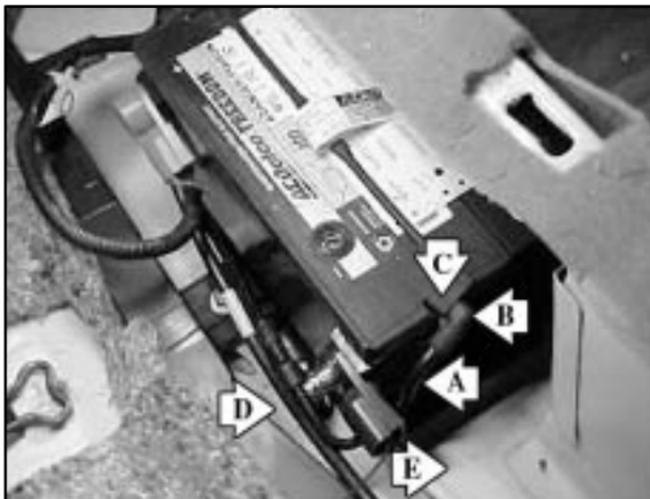
Battery

Your new vehicle comes with a maintenance free ACDelco[®] battery. When it's time for a new battery, get one that has the replacement number shown on the original battery's label. We recommend an ACDelco battery.

The battery is located under the rear seat cushion. To access the battery, see "Removing the Rear Seat Cushion" in the Index. You don't need to access the battery to jump start your vehicle. See "Jump Starting" in the Index.

CAUTION:

A battery that isn't properly vented can let sulfuric acid fumes into the area under the rear seat cushion. These fumes can damage your rear seat safety belt systems. You may not be able to see this damage, and the safety belts might not provide the protection needed in a crash. If a replacement battery is ever needed, it must be vented in the same manner as the original battery. Always make sure that the vent hose is properly reattached before reinstalling the seat cushion.



To be sure the vent hose (A) is properly attached, the vent hose connectors (B) must be securely reattached to the vent outlets (C) on each side of the battery, and the vent assembly grommet (D) must be secured to the floor pan (E).

Vehicle Storage

If you're not going to drive your vehicle for 25 days or more, remove the black, negative (-) cable from the battery. This will help keep your battery from running down.

CAUTION:

Batteries have acid that can burn you and gas that can explode. You can be badly hurt if you aren't careful. See "Jump Starting" in the Index for tips on working around a battery without getting hurt.

Contact your dealer to learn how to prepare your vehicle for longer storage periods.

Also, for your audio system, see "Theft-Deterrent Feature" in the Index.

Bulb Replacement

For the proper type of replacement bulb, see “Replacement Bulbs” in the Index.

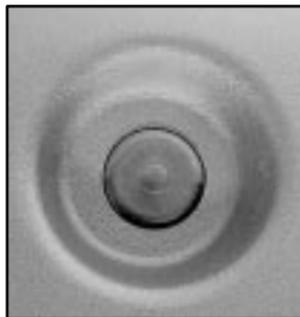
For any bulb changing procedure not listed in this section, contact your dealer’s service department.

Halogen Bulbs

CAUTION:

Halogen bulbs have pressurized gas inside and can burst if you drop or scratch the bulb. You or others could be injured. Be sure to read and follow the instructions on the bulb package.

Headlamps



1. To access the headlamps, remove all of the push-pins that hold the filler panel cover in place.

Do this by pressing the center of each pin down, then remove the pin by pulling up on the outer circle. Then set the cover aside.



2. Remove the two bolts at the top of the headlamp assembly.
3. Loosen the bolt at the bottom of the headlamp assembly to gain access to the bulb socket.



4. Firmly grasp the outboard side of the headlamp assembly with both hands and pull hard enough, so that the whole assembly opens freely.



5. Remove the bulb socket dust cover and set aside.



7. Disconnect the bulb from the socket by pulling out the bulb.



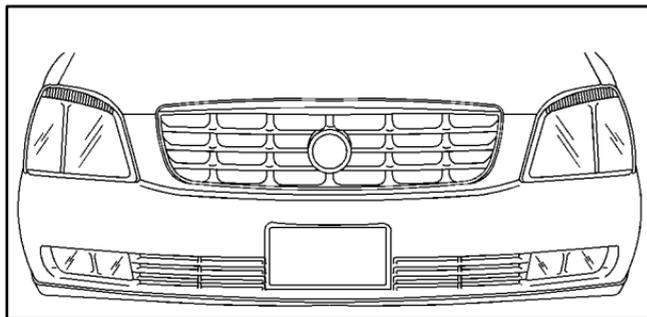
6. Turn the headlamp housing socket counterclockwise to unlock the socket from the lamp housing.

8. Install the new bulb into the socket. Make sure that the bulb is locked firmly into the bulb socket.
9. Reinstall the headlamp housing socket back into the headlamp assembly.
10. To reinstall the headlamp assembly, see steps 2 through 5 in reverse.

To reinstall the filler panel:

1. Place the filler panel in the correct location.
2. Reset each push-pin by holding each by the outer circle while pushing up on the pin assembly from below. The center portion of the push-pin should now be above the outer circle.
3. After placing each push-pin into the opening, press down on the outer circle until it is seated against the surface of the filler panel.
4. Lock each push-pin in place by pressing the center of each down until they are level with the outer circles. Use care not to press down so far that the push-pin releases again.

Headlamp Aiming



Your vehicle has a visual optical headlamp aiming system equipped with horizontal aim indicators. The aim has been pre-set at the factory and should need no further adjustment. This is true even though your horizontal aim indicators may not fall exactly on the “0” (zero) marks on their scales.

If your vehicle is damaged in an accident, the headlamp aim may be affected. Aim adjustment to the low beam may be necessary if it is difficult to see lane markers (for horizontal aim), or if oncoming drivers flash their high beams at you (for vertical aim). If you believe your headlamps need to be re-aimed, we recommend that you take your vehicle to your dealer for service. However, it is possible for you to re-aim your headlamps as described in the following procedure.

NOTICE:

To make sure your headlamps are aimed properly, read all the instructions before beginning. Failure to follow these instructions could cause damage to headlamp parts.

The vehicle should be properly prepared as follows:

- The vehicle should be placed so the headlamps are 25 ft. (7.6 m) from a light colored wall or other flat surface.

- The vehicle must have all four tires on a perfectly level surface which is level all the way to the wall or other flat surface.
- The vehicle should be placed so it is perpendicular to the wall or other flat surface.
- The vehicle should not have any snow, ice or mud attached to it.
- The vehicle should be fully assembled and all other work stopped while headlamp aiming is being done.
- Allow the headlamps to warm up for one to two minutes before beginning.
- Tires should be properly inflated.
- Start the vehicle to level the suspension.

Headlamp aiming is done with the vehicle low beam lamps. The high beam lamps will be correctly aimed if the low beam lamps are aimed properly.

The headlamp aiming devices are under the hood near the headlamps.

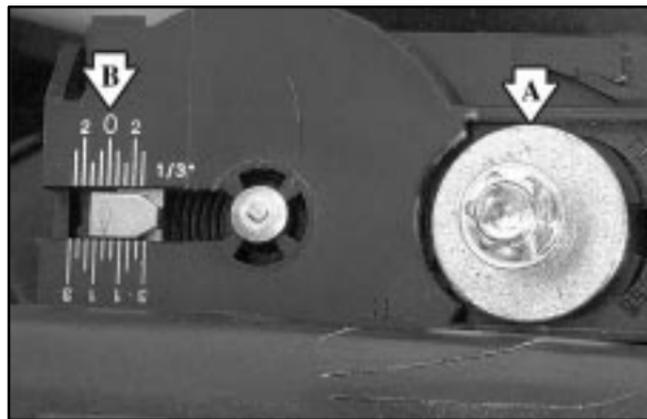


If you believe your headlamps need horizontal (left/right) adjustment, follow the horizontal aiming procedure. If you believe your headlamps need only vertical (up/down) adjustment, follow only the vertical aiming procedure.

Adjustment screws can be turned with an E8 Torx[®] socket or T15 Torx screwdriver.

Headlamp Horizontal Aiming

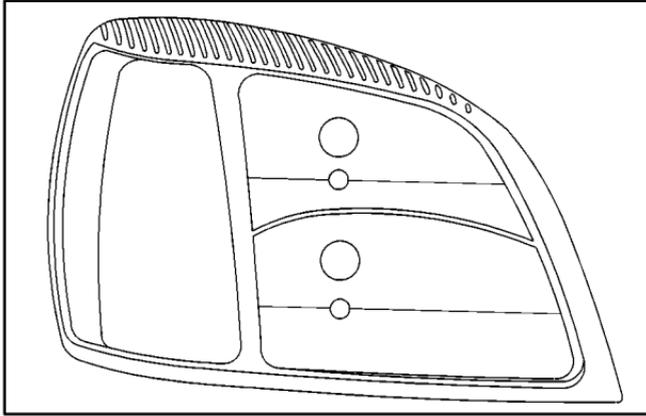
Turn the horizontal aiming screw (A) until the indicator (B) is lined up with zero.



Once the horizontal aim is adjusted, then adjust the vertical aim.

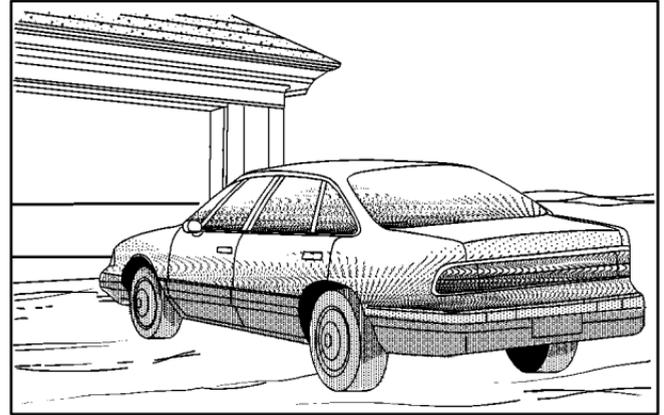
Headlamp Vertical Aiming

1. Find the aim dot on the lens of the lamps.

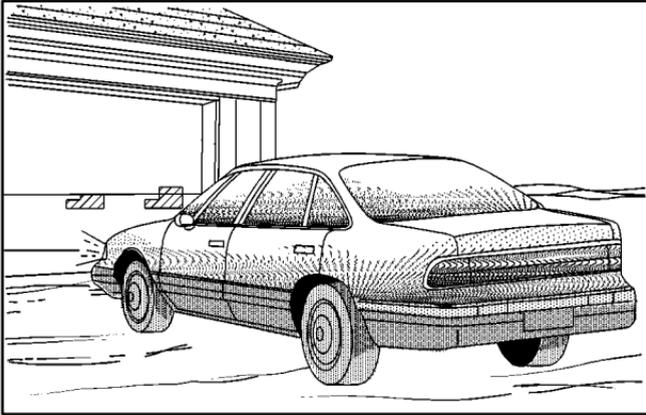


2. Measure the distance from the ground to the aim dot on each lamp; if left low beam, subtract two inches. Record this distance.

3. At the wall or other flat surface, measure from the floor to the recorded distance and draw a horizontal line the width of the vehicle.



4. Turn on the low beam headlamps and cover the lamp not being evaluated. The ambient light should allow the beam cut off to be seen on the wall.



5. Turn the vertical aiming screw (C) until the headlamp beam is aimed to the horizontal line. It is recommended to cover the lamp that is not being evaluated to better see the beam being aimed.



Front Cornering Lamps

1. Follow Steps 1 through 5 in “Headlamps” described previously.
2. Disconnect the cornering lamp bulb by pulling the bulb out of the socket. Do not twist or turn the bulb.
3. Replace cornering lamp bulb by pushing the bulb directly into the socket.
4. Reinstall the cornering lamp housing socket back into the headlamp assembly.
5. To reinstall headlamp assembly, see Steps 1 through 5 in reverse in “Headlamps” described previously.

Front Turn Signal Lamps

1. The turn signal lamps are located beside the headlamps. To access, lift off the bulb socket dust cover. (See Step 1 under “Headlamps.”)



2. Press the tab down and turn the housing socket clockwise to unlock the socket from the lamp housing.



3. Remove the turn signal lamp housing socket and replace the bulb.

Windshield Wiper Blade Replacement

Windshield wiper blades should be inspected at least twice a year for wear or cracking. See “Wiper Blade Check” in the Maintenance Schedule booklet under Part B “Owner Checks and Services” for more information.

It’s a good idea to clean or replace the wiper blade assembly on a regular basis or when worn. For proper windshield wiper blade length and type, see “Normal Maintenance Replacement Parts” in the Index

To replace the wiper blade assembly:

1. Turn the ignition to ACC and turn the wipers on. Position the wipers on the windshield in the “mid” wipe position. Then with the door open, turn the ignition to OFF.



2. Tip the blade up almost to a “T” position and push down on the tab to release the wiper blade assembly.
3. To install, align the wiper blade with the loop on the wiper blade assembly, and push up to snap into place.

Tires

Your new vehicle comes with high-quality tires made by a leading tire manufacturer. If you ever have questions about your tire warranty and where to obtain service, see your Cadillac Warranty booklet for details.

CAUTION:

Poorly maintained and improperly used tires are dangerous.

- **Overloading your tires can cause overheating as a result of too much friction. You could have an air-out and a serious accident. See “Loading Your Vehicle” in the Index.**

CAUTION: (Continued)

CAUTION: (Continued)

- **Underinflated tires pose the same danger as overloaded tires. The resulting accident could cause serious injury. Check all tires frequently to maintain the recommended pressure. Tire pressure should be checked when your tires are cold.**
- **Overinflated tires are more likely to be cut, punctured or broken by a sudden impact -- such as when you hit a pothole. Keep tires at the recommended pressure.**
- **Worn, old tires can cause accidents. If your tread is badly worn, or if your tires have been damaged, replace them.**

See “Inflation -- Tire Pressure” in this section for inflation pressure adjustment for higher speed driving.

Inflation -- Tire Pressure

The Tire-Loading Information label, which is located on the rear edge of the driver’s door, shows the correct inflation pressures for your tires when they’re cold. “Cold” means your vehicle has been sitting for at least three hours or driven no more than 1 mile (1.6 km).

If you’ll be driving at high speeds (e.g., speeds of 100 mph (160 km/h) or higher), where it is legal, set the cold inflation pressure to the maximum inflation pressure shown on the tire sidewall, or to 38 psi (265 kPa), whichever is lower. See the example below. When you end this high-speed driving, return to the cold inflation pressure shown on the Tire-Loading Information label.

Example:

You’ll find maximum load and inflation pressure molded on the tire’s sidewall, in small letters, near the rim flange. It will read something like this: Maximum load 690 kg (1521 lbs.) @ 300 kPa (44 psi) Max. Press.

For this example, you would set the inflation pressure for high-speed driving at 38 psi (265 kPa).

NOTICE:

Don't let anyone tell you that underinflation or overinflation is all right. It's not. If your tires don't have enough air (underinflation), you can get the following:

- Too much flexing
- Too much heat
- Tire overloading
- Bad wear
- Bad handling
- Bad fuel economy.

If your tires have too much air (overinflation), you can get the following:

- Unusual wear
- Bad handling
- Rough ride
- Needless damage from road hazards.

When to Check

Check your tires once a month or more.

Don't forget your compact spare tire. It should be at 60 psi (420 kPa).

How to Check

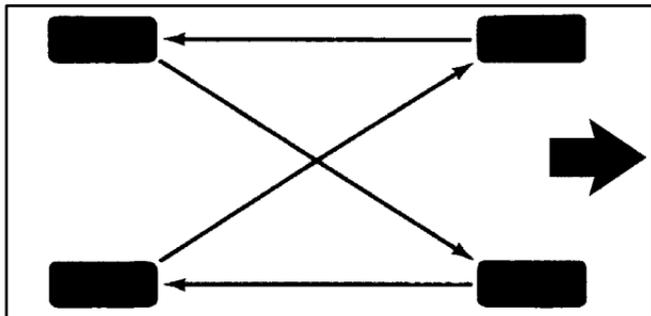
Use a good quality pocket-type gage to check tire pressure. You can't tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they're underinflated.

Be sure to put the valve caps back on the valve stems. They help prevent leaks by keeping out dirt and moisture.

Tire Inspection and Rotation

Tires should be rotated every 6,000 to 8,000 miles (10 000 to 13 000 km). Any time you notice unusual wear, rotate your tires as soon as possible and check wheel alignment. Also check for damaged tires or wheels. See “When It’s Time for New Tires” and “Wheel Replacement” later in this section for more information.

The purpose of regular rotation is to achieve more uniform wear for all tires on the vehicle. The first rotation is the most important. See “Scheduled Maintenance Services” in the Maintenance Schedule booklet for scheduled rotation intervals.



When rotating your tires, always use the correct rotation pattern shown here.

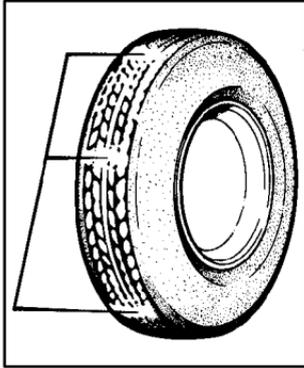
Don't include the compact spare tire in your tire rotation.

After the tires have been rotated, adjust the front and rear inflation pressures as shown on the Tire-Loading Information label. Make certain that all wheel nuts are properly tightened. See “Wheel Nut Torque” in the Index.

CAUTION:

Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after a time. The wheel could come off and cause an accident. When you change a wheel, remove any rust or dirt from places where the wheel attaches to the vehicle. In an emergency, you can use a cloth or a paper towel to do this; but be sure to use a scraper or wire brush later, if you need to, to get all the rust or dirt off. (See “Changing a Flat Tire” in the Index.)

When It's Time for New Tires



One way to tell when it's time for new tires is to check the treadwear indicators, which will appear when your tires have only 1/16 inch (1.6 mm) or less of tread remaining.

You need a new tire if any of the following statements are true:

- You can see the indicators at three or more places around the tire.
- You can see cord or fabric showing through the tire's rubber.
- The tread or sidewall is cracked, cut or snagged deep enough to show cord or fabric.

- The tire has a bump, bulge or split.
- The tire has a puncture, cut or other damage that can't be repaired well because of the size or location of the damage.

Buying New Tires

To find out what kind and size of tires you need, look at the Tire-Loading Information label.

The tires installed on your vehicle when it was new had a Tire Performance Criteria Specification (TPC Spec) number on each tire's sidewall. When you get new tires, get ones with that same TPC Spec number. That way your vehicle will continue to have tires that are designed to give proper endurance, handling, speed rating, traction, ride and other things during normal service on your vehicle. If your tires have an all-season tread design, the TPC number will be followed by an "MS" (for mud and snow).

If you ever replace your tires with those not having a TPC Spec number, make sure they are the same size, load range, speed rating and construction type (bias, bias-belted or radial) as your original tires.

 **CAUTION:**

Mixing tires could cause you to lose control while driving. If you mix tires of different sizes or types (radial and bias-belted tires), the vehicle may not handle properly, and you could have a crash.

Using tires of different sizes may also cause damage to your vehicle. Be sure to use the same size and type tires on all wheels.

It's all right to drive with your compact spare, though. It was developed for use on your vehicle.

 **CAUTION:**

If you use bias-ply tires on your vehicle, the wheel rim flanges could develop cracks after many miles of driving. A tire and/or wheel could fail suddenly, causing a crash. Use only radial-ply tires with the wheels on your vehicle.

Uniform Tire Quality Grading

The following information relates to the system developed by the United States National Highway Traffic Safety Administration, which grades tires by treadwear, traction and temperature performance. (This applies only to vehicles sold in the United States.) The grades are molded on the sidewalls of most passenger car tires. The Uniform Tire Quality Grading system does not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, tires with nominal rim diameters of 10 to 12 inches (25 to 30 cm), or to some limited-production tires.

While the tires available on General Motors passenger cars and light trucks may vary with respect to these grades, they must also conform to Federal safety requirements and additional General Motors Tire Performance Criteria (TPC) standards.

Treadwear

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

Traction -- AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance. Warning: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature -- A, B, C

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

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

Wheel Alignment and Tire Balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

Scheduled wheel alignment and wheel balancing are not needed. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset. If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

Wheel Replacement

Replace any wheel that is bent, cracked, or badly rusted or corroded. If wheel nuts keep coming loose, the wheel, wheel bolts and wheel nuts should be replaced. If the wheel leaks air, replace it (except some aluminum wheels, which can sometimes be repaired). See your dealer if any of these conditions exist.

Your dealer will know the kind of wheel you need.

Each new wheel should have the same load-carrying capacity, diameter, width, offset and be mounted the same way as the one it replaces.

If you need to replace any of your wheels, wheel bolts or wheel nuts, replace them only with new GM original equipment parts. This way, you will be sure to have the right wheel, wheel bolts and wheel nuts for your vehicle.

CAUTION:

Using the wrong replacement wheels, wheel bolts or wheel nuts on your vehicle can be dangerous. It could affect the braking and handling of your vehicle, make your tires lose air and make you lose control. You could have a collision in which you or others could be injured. Always use the correct wheel, wheel bolts and wheel nuts for replacement.

NOTICE:

The wrong wheel can also cause problems with bearing life, brake cooling, speedometer or odometer calibration, headlamp aim, bumper height, vehicle ground clearance and tire or tire chain clearance to the body and chassis.

See “Changing a Flat Tire” in the Index for more information.

Used Replacement Wheels

CAUTION:

Putting a used wheel on your vehicle is dangerous. You can't know how it's been used or how far it's been driven. It could fail suddenly and cause an accident. If you have to replace a wheel, use a new GM original equipment wheel.

Tire Chains

NOTICE:

If your vehicle has P235/55R17 size tires, don't use tire chains. They can damage your vehicle because there's not enough clearance.

NOTICE: (Continued)

NOTICE: (Continued)

Use another type of traction device only if its manufacturer recommends it for use on your vehicle and tire size combination and road conditions. Follow that manufacturer's instructions. To help avoid damage to your vehicle, drive slowly, readjust or remove the device if it's contacting your vehicle, and don't spin your wheels.

If you do find traction devices that will fit, install them on the front tires.

If you have other tires, use tire chains only where legal and only when you must. Use only SAE Class "S" type chains that are the proper size for your tires. Install them on the front tires and tighten them as tightly as possible with the ends securely fastened. Drive slowly and follow the chain manufacturer's instructions. If you can hear the chains contacting your vehicle, stop and retighten them. If the contact continues, slow down until it stops. Driving too fast or spinning the wheels with chains on will damage your vehicle.

Appearance Care

Remember, cleaning products can be hazardous. Some are toxic. Others can burst into flame if you strike a match or get them on a hot part of the vehicle. Some are dangerous if you breathe their fumes in a closed space. When you use anything from a container to clean your vehicle, be sure to follow the manufacturer's warnings and instructions. And always open your doors or windows when you're cleaning the inside.

Never use these to clean your vehicle:

- Gasoline
- Benzene
- Naphtha
- Carbon Tetrachloride
- Acetone
- Paint Thinner
- Turpentine
- Lacquer Thinner
- Nail Polish Remover

They can all be hazardous -- some more than others -- and they can all damage your vehicle, too.

Don't use any of these unless this manual says you can. In many uses, these will damage your vehicle:

- Alcohol
- Laundry Soap
- Bleach
- Reducing Agents

Cleaning the Inside of Your Vehicle

Use a vacuum cleaner often to get rid of dust and loose dirt. Wipe vinyl, leather, plastic and painted surfaces with a clean, damp cloth.

Cleaning of Fabric/Carpet

Your dealer has two cleaners, Multi-Purpose Interior Cleaner and Capture Non-Solvent Dry Spot and Soil Remover for cleaning fabric and carpet. They will clean normal spots and stains very well. You can get GM-approved cleaning products from your dealer. (See "Appearance Care and Materials" in the Index.)

Here are some cleaning tips:

- Always read the instructions on the cleaner label.
- Clean up stains as soon as you can -- before they set.
- Carefully scrape off any excess stain.
- Use a clean cloth or sponge, and change to a clean area often. A soft brush may be used if stains are stubborn.
- If a ring forms on fabric after spot cleaning, clean the entire area immediately or it will set.

Cleaning Vinyl

Use warm water and a clean cloth.

- Rub with a clean, damp cloth to remove dirt. You may have to do it more than once.
- Things like tar, asphalt and shoe polish will stain if you don't get them off quickly. Use a clean cloth and a vinyl/leather cleaner. See your dealer for this product.

Cleaning Leather

Use a soft cloth with lukewarm water and a mild soap or saddle soap and wipe dry with a soft cloth. Then, let the leather dry naturally. Do not use heat to dry.

- For stubborn stains, use a leather cleaner. See your dealer for this product.
- *Never* use oils, varnishes, solvent-based or abrasive cleaners, furniture polish or shoe polish on leather.
- Soiled or stained leather should be cleaned immediately. If dirt is allowed to work into the finish, it can harm the leather.

Cleaning the Top of the Instrument Panel

Use only mild soap and water to clean the top surfaces of the instrument panel. Sprays containing silicones or waxes may cause annoying reflections in the windshield and even make it difficult to see through the windshield under certain conditions.

Cleaning Interior Plastic Components

Use only a mild soap and water solution on a soft cloth or sponge. Commercial cleaners may affect the surface finish.

Cleaning Wood Panels

Use a clean cloth moistened in warm, soapy water (use mild dish washing soap). Dry the wood immediately with a clean cloth.

Cleaning Speaker Covers

Vacuum around a speaker cover gently, so that the speaker won't be damaged. Clean spots with just water and mild soap.

Care of Safety Belts

Keep belts clean and dry.



CAUTION:

Do not bleach or dye safety belts. If you do, it may severely weaken them. In a crash, they might not be able to provide adequate protection. Clean safety belts only with mild soap and lukewarm water.

Cleaning Glass Surfaces

Glass should be cleaned often. GM Glass Cleaner or a liquid household glass cleaner will remove normal tobacco smoke and dust films on interior glass. (See "Appearance Care and Materials" in the Index.)

Don't use abrasive cleaners on glass, because they may cause scratches. Avoid placing decals on the inside rear window, since they may have to be scraped off later. If abrasive cleaners are used on the inside of the rear window, an electric defogger element may be damaged. Any temporary license should not be attached across the defogger grid.

Cleaning the Outside of the Windshield and Wiper Blades

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

Clean the outside of the windshield with GM Windshield Cleaner, Bon Ami[®] Powder (non-scratching glass cleaning powder), GM Part No. 1050011. The windshield is clean if beads do not form when you rinse it with water.

Grime from the windshield will stick to the wiper blades and affect their performance. Clean the blade by wiping vigorously with a cloth soaked in full-strength windshield washer solvent. Then rinse the blade with water.

Check the wiper blades and clean them as necessary; replace blades that look worn.

Weatherstrips

Silicone grease on weatherstrips will make them last longer, seal better, and not stick or squeak. Apply silicone grease with a clean cloth at least every six months. During very cold, damp weather more frequent application may be required. (See “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet.)

Cleaning the Outside of Your Vehicle

The paint finish on your vehicle provides beauty, depth of color, gloss retention and durability.

Washing Your Vehicle

The best way to preserve your vehicle’s finish is to keep it clean by washing it often with lukewarm or cold water.

Don't wash your vehicle in the direct rays of the sun. Use a car washing soap. Don't use strong soaps or chemical detergents. Be sure to rinse the vehicle well, removing all soap residue completely. You can get GM-approved cleaning products from your dealer. (See "Appearance Care and Materials" in the Index.) Don't use cleaning agents that are petroleum based, or that contain acid or abrasives. All cleaning agents should be flushed promptly and not allowed to dry on the surface, or they could stain. Dry the finish with a soft, clean chamois or an all-cotton towel to avoid surface scratches and water spotting.

High pressure car washes may cause water to enter your vehicle.

Cleaning Exterior Lamps/Lenses

Use lukewarm or cold water, a soft cloth and a car washing soap to clean exterior lamps and lenses. Follow instructions under "Washing Your Vehicle."

Finish Care

Occasional waxing or mild polishing of your vehicle by hand may be necessary to remove residue from the paint finish. You can get GM-approved cleaning products from your dealer. (See "Appearance Care and Materials" in the Index.)

Your vehicle has a "basecoat/clearcoat" paint finish. The clearcoat gives more depth and gloss to the colored basecoat. Always use waxes and polishes that are non-abrasive and made for a basecoat/clearcoat paint finish.

NOTICE:

Machine compounding or aggressive polishing on a basecoat/clearcoat paint finish may dull the finish or leave swirl marks.

Foreign materials such as calcium chloride and other salts, ice melting agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys, etc., can damage your vehicle's finish if they remain on painted surfaces. Wash the vehicle as soon as possible. If necessary, use non-abrasive cleaners that are marked safe for painted surfaces to remove foreign matter.

Exterior painted surfaces are subject to aging, weather and chemical fallout that can take their toll over a period of years. You can help to keep the paint finish looking new by keeping your vehicle garaged or covered whenever possible.

Cleaning Aluminum or Chrome-Plated Wheels (If Equipped)

Keep your wheels clean using a soft clean cloth with mild soap and water. Rinse with clean water. After rinsing thoroughly, dry with a soft clean towel. A wax may then be applied.

The surface of these wheels is similar to the painted surface of your vehicle. Don't use strong soaps, chemicals, abrasive polishes, abrasive cleaners, cleaners with acid or abrasive cleaning brushes on them because you could damage the surface. Do not use chrome polish on any wheels other than chrome-plated wheels.

Use chrome polish only on chrome-plated wheels, but avoid any painted surface of the wheel, and buff off immediately after application.

Don't take your vehicle through an automatic car wash that has silicon carbide tire cleaning brushes. These brushes can also damage the surface of these wheels.

Cleaning Tires

To clean your tires, use a stiff brush with a tire cleaner.

NOTICE:

When applying a tire dressing always take care to wipe off any overspray or splash from all painted surfaces on the body or wheels of the vehicle. Petroleum-based products may damage the paint finish and tires.

Sheet Metal Damage

If your vehicle is damaged and requires sheet metal repair or replacement, make sure the body repair shop applies anti-corrosion material to the parts repaired or replaced to restore corrosion protection.

Original manufacturer replacement parts will provide the corrosion protection while maintaining the warranty.

Finish Damage

Any stone chips, fractures or deep scratches in the finish should be repaired right away. Bare metal will corrode quickly and may develop into a major repair expense.

Minor chips and scratches can be repaired with touch-up materials available from your dealer or other service outlets. Larger areas of finish damage can be corrected in your dealer's body and paint shop.

Underbody Maintenance

Chemicals used for ice and snow removal and dust control can collect on the underbody. If these are not removed, accelerated corrosion (rust) can occur on the underbody parts such as fuel lines, frame, floor pan and exhaust system even though they have corrosion protection.

At least every spring, flush these materials from the underbody with plain water. Clean any areas where mud and other debris can collect. Dirt packed in closed areas of the frame should be loosened before being flushed. Your dealer or an underbody car washing system can do this for you.

Chemical Paint Spotting

Some weather and atmospheric conditions can create a chemical fallout. Airborne pollutants can fall upon and attack painted surfaces on your vehicle. This damage can take two forms: blotchy, ringlet-shaped discolorations, and small irregular dark spots etched into the paint surface.

Although no defect in the paint job causes this, Cadillac will repair, at no charge to the owner, the surfaces of new vehicles damaged by this fallout condition within 12 months or 12,000 miles (20 000 km) of purchase, whichever occurs first.

GM Vehicle Care/Appearance Materials

PART NUMBER	SIZE	DESCRIPTION	USAGE
994954	23 in. x 25 in.	Polishing Cloth – Wax Treated	Exterior polishing cloth
1050172	16 oz. (0.473 L)	Tar and Road Oil Remover	Removes tar, road oil and asphalt
1050173	16 oz. (0.473 L)	Chrome Cleaner and Polish	Use on chrome, stainless steel, nickel, copper and brass
1050174	16 oz. (0.473 L)	White Sidewall Tire Cleaner	Removes soil and black marks from whitewalls
1050214	32 oz. (0.946 L)	Vinyl Cleaner	Cleans vinyl tops, upholstery and convertible tops
1050427	23 oz. (0.680 L)	Glass Cleaner	Removes dirt, grime, smoke and fingerprints
1052918**	8 oz. (0.237 L)	Armor All™ Protectant	Protects leather, wood, acrylics, Plexiglas™, plastic, rubber and vinyl
1052925	16 oz. (0.473 L)	Multi-Purpose Interior Cleaner	Cleans carpets, seats, interior trim, door panels and floor mats
1052929	16 oz. (0.473 L)	Wheel Cleaner	Spray on and rinse with water
1052930	8 oz. (0.237 L)	Capture Dry Spot Remover	Attracts, absorbs and removes soils on fabric
12345721	2.5 sq. ft.	Synthetic Chamois	Shines vehicle without scratching
12345725	12 oz. (0.354 L)	Silicone Tire Shine	Spray on tire shine
12377964*	16 oz. (0.473 L)	Finish Enhancer	Removes dust, fingerprints and surface contaminants
12377966*	16 oz. (0.473 L)	Cleaner Wax	Removes light scratches and oxidation and protects finish
12377984*	16 oz. (0.473 L)	Surface Cleaner	Removes contaminants, blemishes and swirl marks

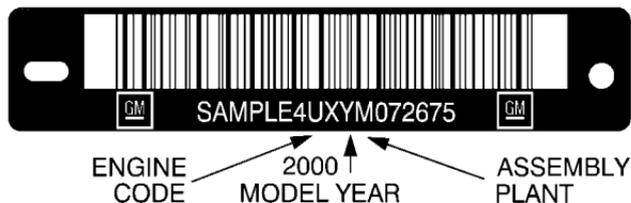
See your General Motors Parts Department for these products.

See “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet.

* For exterior use only.

** Not recommended for use on instrument panels.

Vehicle Identification Number (VIN)



This is the legal identifier for your vehicle. It appears on a plate in the front corner of the instrument panel, on the driver's side. You can see it if you look through the windshield from outside your vehicle. The VIN also appears on the Vehicle Certification and Service Parts labels and the certificates of title and registration.

Engine Identification

The 8th character in your VIN is the engine code. This code will help you identify your engine, specifications and replacement parts.

Service Parts Identification Label

You'll find this label on the under side of the spare tire cover in the trunk. It's very helpful if you ever need to order parts. On this label is:

- your VIN,
- the model designation,
- paint information and
- a list of all production options and special equipment.

Be sure that this label is not removed from the vehicle.

Electrical System

Add-On Electrical Equipment

NOTICE:

Don't add anything electrical to your vehicle unless you check with your dealer first. Some electrical equipment can damage your vehicle and the damage wouldn't be covered by your warranty. Some add-on electrical equipment can keep other components from working as they should.

Your vehicle has an air bag system. Before attempting to add anything electrical to your vehicle, see “Servicing Your Air Bag-Equipped Vehicle” in the Index.

Headlamp Wiring

The headlamp wiring system has four individual fuses, LF low, RF low, LF high and RF high. An electrical overload will cause the lamps to go on and off, or in some cases to remain off. If this happens, have the headlamp wiring checked right away.

Windshield Wiper Fuses

A circuit breaker protects the wiper motor. If the wiper motor overheats due to heavy snow, the wipers will stop until the motor cools and will then restart.

A MiniFuse[®] powers the wiper motor. If the MiniFuse blows, there is an electrical problem. Be sure to have it fixed.

Power Windows and Other Power Options

Circuit breakers protect the power windows and power seats. When the current load is too heavy, the circuit breaker opens and closes, protecting the circuit until the problem is fixed or goes away.

Fuses and Circuit Breakers

The wiring circuits in your vehicle are protected from short circuits by a combination of fuses and circuit breakers. This greatly reduces the chance of fires caused by electrical problems.

Look at the silver-colored band inside the fuse. If the band is broken or melted, replace the fuse. Be sure you replace a bad fuse with a new one of the identical size and rating. If a MaxiFuse should blow, see your dealer for service immediately.

If you ever have a problem on the road and don't have a spare fuse, you can "borrow" one that has the same amperage. Pick some feature of your vehicle that you can get along without -- like the radio or cigarette lighter -- and use its fuse, if it is the correct amperage. Replace it as soon as you can.

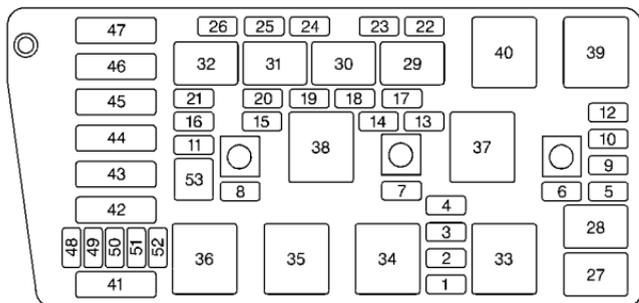
The MaxiFuses are located in two Bussed Electrical Centers (BEC), one located near the engine compartment on the passenger's side and the other under the rear seat on the driver's side. If a MaxiFuse should blow, have your vehicle serviced by your dealer immediately.

Underhood Junction Block



The front Bussed Electrical Center (BEC) is located next to the engine on the passenger's side of the vehicle.

To access the fuse block, push in the two tabs located on the top and the bottom of the fuse block cover.



Minifuses

Fuse	Usage
1	Assembly Line Diagnostic Link
2	Accessory
3	Windshield Wipers
4	Not Used
5	Headlamp Low Beam Left

Fuse	Usage
6	Headlamp Low Beam Right
7	Instrument Panel
8	Powertrain Control Module Battery
9	Headlamp High Beam Right
10	Headlamp High Beam Left
11	Ignition 1
12	Fog
13	Transmission
14	Cruise Control
15	Coil Module
16	Injector Bank #2
17	Not Used
18	Not Used
19	Powertrain Control Module Ignition
20	Oxygen Sensor
21	Injector Bank #1
22	Cigar Lighter #2
23	Cigar Lighter #1
24	Daytime Running Lamps
25	Horn
26	Air Conditioner Clutch

Micro Relays

Relay	Usage
27	Headlamp High Beam
28	Headlamp Low Beam
29	Fog Lamps
30	Daytime Running Lamps
31	Horn
32	Air Conditioner Clutch

Mini Relays

Relay	Usage
33	Not Used
34	Accessory
35	Not Used
36	Starter 1
37	Cooling Fan Secondary
38	Ignition 1
39	Cooling Fan Series/Parallel
40	Cooling Fan Primary

Maxibreaker

Circuit Breaker	Usage
41	Starter

MaxiFuses

Fuse	Usage
42	Not Used
43	Anti-Lock Brake System
44	Air Pump B
45	Air Pump A
46	Cooling Fan Secondary
47	Cooling Fan Primary

The spare fuses are located in numbers 48 through 52.
The fuse puller is located in number 53.

Removing the Rear Seat Cushion

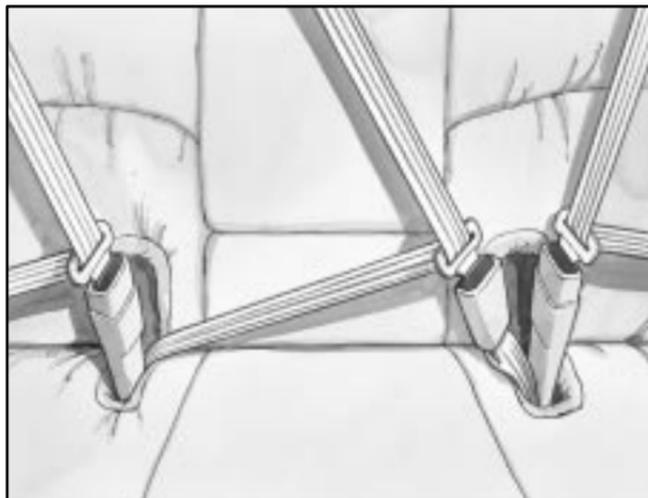
NOTICE:

The battery and main fuse boxes are located under the rear seat cushion. The battery's ground terminal and some relay wires are exposed. To help avoid damage to the battery and wires, be careful when removing or reinstalling the seat cushion. Do not remove covers from covered parts. Do not store anything under the seat, as objects could touch exposed wires and cause a short.

To Remove the Rear Seat Cushion

1. Pull up on the front of the cushion to release the front hooks.
2. Pull the cushion up and out toward the front of the vehicle.

To Reinstall the Rear Seat Cushion



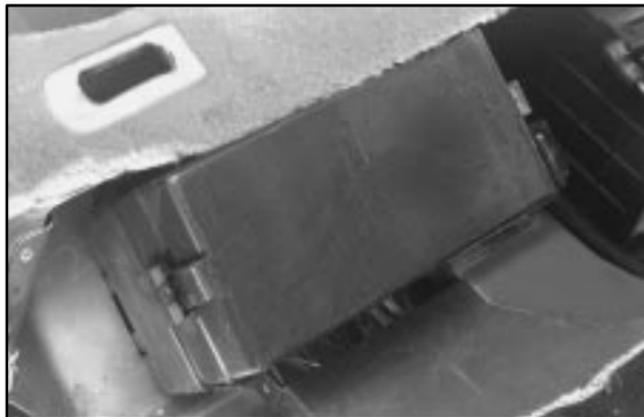
CAUTION:

A safety belt that isn't properly routed through the seat cushion or is twisted won't provide the protection needed in a crash. If the safety belt hasn't been routed through the seat cushion at all, it won't be there to work for the next passenger. The person sitting in that position could be badly injured. After reinstalling the seat cushion, always check to be sure that the safety belts are properly routed and are not twisted.

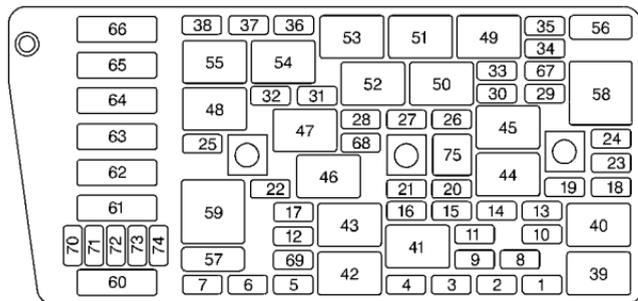
1. Buckle the center passenger position safety belt, then route the safety belts through the proper slots in the seat cushion. Don't let the safety belts get twisted.
2. Slide the rear of the cushion up and under the seatback so the rear-locating guides hook into the wire loops on the back frame.
3. With the seat cushion lowered, push rearward and then press down on the seat cushion until the spring locks on both ends engage.

4. Check to make sure the safety belts are properly routed and that no portion of any safety belt is trapped under the seat. Also make sure the seat cushion is secured.

Rear Underseat Bussed Electrical Center



The rear BEC is located under the rear seat on the driver's side. The rear seat cushion must be removed to access the BEC. See "Removing the Rear Seat Cushion" in the Index.



Minifuses

Fuse	Usage
1	Fuel Pump
2	Heater, Ventilation and Air Conditioning Battery
3	Memory Seat, Tilt and Telescoping Steering
4	HVAC Blower
5	Driver Door Module
6	Heated Seat Left Rear

Fuse	Usage
7	Power Tilt and Telescoping Steering
8	Supplemental Inflation Restraint
9	Not Used
10	Lamps Park Right
11	Fuel Tank Ventilation Solenoid
12	Ignition 1
13	Interior Lamp Dimmer Module
14	Sunshade
15	Navigation
16	Heated Seat Left Front
17	Interior Lamps
18	Right Rear Door Module
19	Stoplamps
20	Park/Reverse
21	Audio
22	Retained Accessory Power for Sunroof
23	Lamps, Parking Left
24	Night Vision
25	Passenger Door Module
26	Body
27	Export Lights

Fuse	Usage
28	Rear HVAC Blower
29	Ignition Switch
30	Hazard Signal
31	Reverse, Locks
32	Continuous Variable Road Sensing Suspension
33	Heating, Ventilation, Air Conditioning
34	Ignition 3 Rear
35	Antilock Braking System
36	Heated Seat, Right Front
37	Heated Seat, Right Rear
38	Dimmer

Micro Relays

Relay	Usage
39	Fuel Pump
40	Parking Lamps
41	Ignition 1
42	Park Brake A
43	Park Brake B
44	Park Shift Interlock
45	Reverse Lamps

Relay	Usage
46	Retained Accessory Power for Sunroof
47	Reverse Lockout
48	CVRSS Dampers
49	Ignition 3
50	Fuel Tank Door Release
51	Interior Lamps
52	Trunk Release
53	Not Used
54	Lock, Cylinder
55	Electronic Level Control Compressor

Circuit Breakers

Relay	Usage
56	Power Seats
57	Power Windows

Mini Relays

Relay	Usage
58	Cigar Lighter
59	Right Rear Defog

MaxiFuses

Fuse	Usage
60	Park Brake
61	Rear Defog
62	Right Rear Lumbar, Power
63	Audio Amplifier
64	ELC Compressor/Exhaust
65	Cigar Lighter
66	Not Used

The spare fuses are located in numbers 70 through 74.
The fuse puller is located in number 75.

Replacement Bulbs

Application	Number
Headlamps, Composite	
Lower High Beam	9005
Upper Low Beam	9006
Front Turn Signal	3157 NA
Cornering Lamps	3157

Capacities and Specifications

The following approximate capacities are given in English and metric conversions. Please refer to “Recommended Fluids and Lubricants” in the Maintenance Schedule booklet for more information.

Engine Specifications

Displacement	279 cubic inches (4 565 cc)
Type	4.6 L DOHC V8
VIN Engine Code	
DeVille and DHS	Y
DTS	9
Horsepower	
DeVille and DHS	275 (bhp) @ 5600 rpm 205 (kW) @ 5600 rpm
DTS	300 (bhp) @ 6000 rpm 224 (kW) @ 6000 rpm
Torque	
DeVille and DHS	300 (lb-ft) @ 4000 rpm 407 (N·m) @ 4000 rpm
DTS	295 (lb-ft) @ 4400 rpm 400 (N·m) @ 4400 rpm
Firing Order	1-2-7-3-4-5-6-8
Thermostat Starts To Open	177-184°F (81-85°C)

Wheel Nut Torque

100 lb-ft (140 N·m)

Capacities

Transaxle (4T80-E)	15.0 quarts (14.2 L)
Crankcase (Engine Oil with Filter Change)	7.5 quarts (7.1 L)
Engine Cooling System	10.68 quarts (10.1 L)
Fuel Tank	18.5 gallons (70.1 L)
Air Conditioning Refrigerant	See refrigerant charge label under the hood.

NOTE: All capacities are approximate. When adding, be sure to fill to the approximate level, as recommended in this manual. Recheck fluid level after filling.

Normal Maintenance Replacement Parts

Air Filter Element	AC Type A 1208C
Fuel Filter Element	AC Type GF-627
Engine Oil Filter	AC Type PF-58
PCV Valve	AC Type CV-774C
Spark Plugs	AC Type 41-950
Gap:	0.050 inches (1.3 mm)
Thermostat	AC Type 131-66
Windshield Wiper Blade (Shepard's Hook Type)	22 inches (56.5 cm)

Vehicle Dimensions

Wheelbase	113.8 inches (289.1 cm)
Length	209.78 inches (532.6 cm)
Height	56.4 inches (143.2 cm)
Width	76.5 inches (194.3 cm)
Front Tread	60.9 inches (154.6 cm)
Rear Tread	60.9 inches (154.6 cm)



Section 7 Customer Assistance Information

Here you will find out how to contact Cadillac if you need assistance. This section also tells you how to obtain service publications and how to report any safety defects.

7-2	Customer Satisfaction Procedure	7-10	Warranty Information
7-3	Customer Assistance for Text Telephone (TTY) Users	7-10	Reporting Safety Defects to the United States Government
7-4	Customer Assistance Offices	7-11	Reporting Safety Defects to the Canadian Government
7-5	GM Mobility Program for Persons with Disabilities	7-11	Reporting Safety Defects to General Motors
7-5	Roadside Service	7-11	Ordering Service and Owner Publications in Canada
7-7	Roadside Service for the Hearing or Speech Impaired		
7-8	Courtesy Transportation		
7-8	Transportation Options		

Customer Satisfaction Procedure



Your satisfaction and goodwill are important to your dealer and to Cadillac. Normally, any concerns with the sales transaction or the operation of your vehicle will be resolved by your dealer's sales or service departments. Sometimes, however, despite the best intentions of all concerned, misunderstandings can occur. If your concern has not been resolved to your satisfaction, the following steps should be taken:

STEP ONE -- Discuss your concern with a member of dealership management. Normally, concerns can be quickly resolved at that level. If the matter has already been reviewed with the sales, service or parts manager, contact the owner of the dealership or the general manager.

STEP TWO -- If after contacting a member of dealership management, it appears your concern cannot be resolved by the dealership without further help, contact the Cadillac Customer Assistance Center, 24 hours a day, by calling 1-800-458-8006. In Canada, contact GM of Canada Customer Communication Centre in Oshawa by calling 1-800-263-3777 (English) or 1-800-263-7854 (French).

We encourage you to call the toll-free number in order to give your inquiry prompt attention. Please have the following information available to give the Customer Assistance Representative:

- Vehicle Identification Number (This is available from the vehicle registration or title, or the plate at the top left of the instrument panel and visible through the windshield.)
- Dealership name and location
- Vehicle delivery date and present mileage

When contacting Cadillac, please remember that your concern will likely be resolved at a dealer's facility. That is why we suggest you follow Step One first if you have a concern.

STEP THREE -- Both General Motors and your dealer are committed to making sure you are completely satisfied with your new vehicle. However, if you continue to remain unsatisfied after following the procedure outlined in Steps One and Two, file with the GM/BBB Auto Line Program to enforce any additional rights you may have. Canadian owners refer to your Warranty and Owner Assistance Information booklet for information on the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The BBB Auto Line Program is an out of court program administered by the Council of Better Business Bureaus to settle automotive disputes regarding vehicle repairs or the interpretation of the New Vehicle Limited Warranty. Although you are required to resort to this informal dispute resolution program prior to filing any court action, use of the program is free of charge and your case will generally be heard within 40 days. If you do not agree with the decision given in your case, you may reject it and proceed with any other venue for relief available to you.

You may contact the BBB using the toll-free telephone number or write them at the following address:

BBB Auto Line
Council of Better Business Bureaus, Inc.
4200 Wilson Boulevard
Suite 800
Arlington, VA 22203-1804
Telephone: 1-800-955-5100

This program is available in all 50 states and the District of Columbia. Eligibility is limited by vehicle age, mileage and other factors. General Motors reserves the right to change eligibility limitations and/or discontinue its participation in this program.

Customer Assistance for Text Telephone (TTY) Users

To assist customers who are deaf, hard of hearing, or speech-impaired and who use Text Telephones (TTYs), Cadillac has TTY equipment available at its Customer Assistance Center. Any TTY user can communicate with Cadillac by dialing: 1-800-833-CMCC (2622). (TTY users in Canada can dial 1-800-263-3830.)

Customer Assistance Offices

Cadillac encourages customers to call the toll-free number for assistance. If a U.S. customer wishes to write to Cadillac, the letter should be addressed to Cadillac's Customer Assistance Center.

United States

Cadillac Customer Assistance Center
Cadillac Motor Car Division
P.O. Box 436004
Pontiac, MI 48343-6004

1-800-458-8006
1-800-833-2622 (For Text Telephone devices (TTYs))
Roadside Assistance: 1-800-882-1112

Canada

General Motors of Canada Limited
Customer Communication Centre, 163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

1-800-263-3777 (English)
1-800-263-7854 (French)
1-800-263-3830 (For Text Telephone devices (TTYs))
Roadside Assistance: 1-800-882-1112

All Overseas Locations

GMODC - Customer Communication Centre
169-007
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Telephone: 905-644-4112
Fax: 905-644-4866

Caribbean Numbers

1-800-496-9992 (English) Puerto Rico
1-800-496-9993 (Spanish) Puerto Rico
1-800-751-4135 (English) Dominican Republic
1-800-751-4136 (Spanish) Dominican Republic
1-800-496-9994 U.S. Virgin Islands
1-800-389-0009 Bahamas
1-800-534-0122 Bermuda, Barbados, Antigua & B.V.I.

If toll free service is not available in the Caribbean, call Puerto Rico 1-787-763-1315.

GM Mobility Program for Persons with Disabilities



This program, available to qualified applicants, can reimburse you up to \$1,000 toward aftermarket driver or passenger adaptive equipment you may require for your vehicle (hand controls, wheelchair/scooter lifts, etc.).

This program can also provide you with free resource information, such as area driver assessment centers and mobility equipment installers. The program is available for a limited period of time from the date of vehicle purchase/lease. See your dealer for more details or call the GM Mobility Assistance Center at 1-800-323-9935. Text telephone (TTY) users, call 1-800-833-9935.

GM of Canada also has a Mobility Program. Call 1-800-GM-DRIVE (463-7483) for details. When calling from outside Canada, please dial 1-905-644-3063. All TTY users call 1-800-263-3830.

Roadside Service



Cadillac's exceptional Roadside Service is more than an auto club or towing service. It provides every Cadillac owner with the advantage of contacting a Cadillac advisor and, when appropriate, a Cadillac trained dealer technician who can provide on-site service.

Each technician travels with a specially equipped service vehicle complete with the necessary Cadillac parts and tools required to handle most roadside repairs.

Cadillac Roadside Service® can be reached by dialing 1-800-882-1112, 24 hours a day, 365 days a year. This service is provided at no charge for any warranty-covered situation and for a nominal charge if the Cadillac is no longer under warranty. Roadside Service is available only in the United States and Canada.

Cadillac Owner Privileges™

Roadside Service provides several Cadillac Owner Privileges™ at “no charge,” throughout your *2000 Cadillac Warranty Period -- 48 months/50,000 miles (80 000 km)*.



Emergency Road Service is performed on site for the following situations:

- Towing Service
- Battery Jump Starting
- Lock Out Assistance
- Fuel Delivery
- Flat Tire Change (Covers change only)

- Trip Interruption -- If your trip is interrupted due to a warranty failure, incidental expenses may be reimbursed during the 48 months/50,000 miles (80 000 km) warranty period. Items covered are hotel, meals and rental car.

Roadside Service Availability

Wherever you drive in the United States or Canada, an advisor is available to assist you over the phone. A dealer technician, if available, can travel to your location within a 30 mile (50 km) radius of a participating Cadillac dealership. If beyond this radius, we will arrange to have your car towed to the nearest Cadillac dealership.

Reaching Roadside Service

Dial the toll-free Roadside Service number: 1-800-882-1112. An experienced Roadside Service Advisor will assist you and request the following information:

- A description of the problem
- Name, home address, home telephone number
- Location of your Cadillac and number you are calling from
- The model year, Vehicle Identification Number (VIN), mileage and date of delivery



Roadside Service for the Hearing or Speech Impaired

Roadside Service is prepared to assist owners who have hearing difficulties or are speech impaired. Cadillac has installed special telecommunication devices called Text Telephone (TTY) in the Roadside Service Center.

Any customer who has access to a (TTY) or a conventional teletypewriter can communicate with Cadillac by dialing from the United States or Canada 1-800-833-CMCC -- daily, 24 hours.

Courtesy Transportation

Cadillac has always exemplified quality and value in its offering of motor vehicles. To enhance your ownership experience, we and our participating dealers are proud to offer Courtesy Transportation, a customer support program for new vehicles.

The Courtesy Transportation program is offered to retail purchase/lease customers in conjunction with the Bumper to Bumper coverage provided by the New Vehicle Limited Warranty. Several transportation options are available when warranty repairs are required. This will reduce your inconvenience during warranty repairs.

Plan Ahead When Possible

When your vehicle requires warranty service, you should contact your dealer and request an appointment. By scheduling a service appointment and advising your service consultant of your transportation needs, your dealer can help minimize your inconvenience. If your vehicle cannot be scheduled into the service department immediately, keep driving it until it can be scheduled for service, unless, of course, the problem is safety-related. If it is, please call your dealership, let them know this, and ask for instructions.

If the dealer requests that you simply drop the vehicle off for service, you are urged to do so as early in the work day as possible to allow for same day repair.

Transportation Options

Warranty service can generally be completed while you wait. However, if you are unable to wait Cadillac helps minimize your inconvenience by providing several transportation options. Depending on the circumstances, your dealer can offer you one of the following:

Shuttle Service

Participating dealers can provide you with shuttle service to get you to your destination with minimal interruption of your daily schedule. This includes a one way shuttle ride to a destination up to 10 miles from the dealership.

Public Transportation or Fuel Reimbursement

If your vehicle requires overnight warranty repairs, reimbursement up to \$30 per day (five days maximum) may be available for the use of public transportation such as taxi or bus. In addition, should you arrange transportation through a friend or relative, reimbursement for reasonable fuel expenses up to \$10 per day (five day maximum) may be available. Claim amounts should reflect actual costs and be supported by original receipts.

Courtesy Rental Vehicle

When your vehicle is unavailable due to warranty repairs, your dealer may arrange to provide you with a courtesy rental vehicle or reimburse you for a rental vehicle you obtained, at actual cost, up to a maximum of \$35.00 per day supported by receipts. This requires that you sign and complete a rental agreement and meet state, local and rental vehicle provider requirements. Requirements vary and may include minimum age requirements, insurance coverage, credit card, etc. You are responsible for fuel usage charges and may also be responsible for taxes, levies, usage fees, excessive mileage or rental usage beyond the completion of the repair.

Generally it is not possible to provide a like-vehicle as a courtesy rental.

Additional Program Information

Courtesy Transportation is available during the Bumper-to-Bumper warranty coverage period, but it *is not* part of the New Vehicle Limited Warranty. A separate booklet entitled “Warranty and Owner Assistance Information” furnished with each new vehicle provides detailed warranty coverage information.

Courtesy Transportation is available only at participating dealers and all program options, such as shuttle service, may not be available at every dealer. Please contact your dealer for specific information about availability. All Courtesy Transportation arrangements will be administered by appropriate dealer personnel.

Canadian Vehicles: For warranty repairs during the Complete Vehicle Coverage period of the General Motors of Canada New Vehicle Limited Warranty, alternative transportation may be available under the Courtesy Transportation Program. Please consult your dealer for details.

General Motors reserves the right to unilaterally modify, change or discontinue Courtesy Transportation at any time and to resolve all questions of claim eligibility pursuant to the terms and conditions described herein at its sole discretion.

Warranty Information

Your vehicle comes with a separate warranty booklet that contains detailed warranty information.

REPORTING SAFETY DEFECTS TO THE UNITED STATES GOVERNMENT

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 General Motors.

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 General Motors.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in the Washington, D.C. area) or write to:

NHTSA, U.S. Department of Transportation
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from the hotline.

REPORTING SAFETY DEFECTS TO THE CANADIAN GOVERNMENT

If you live in Canada, and you believe that your vehicle has a safety defect, you should immediately notify Transport Canada, in addition to notifying General Motors of Canada Limited. You may write to:

Transport Canada
330 Sparks Street
Tower C
Ottawa, Ontario K1A 0N5

REPORTING SAFETY DEFECTS TO GENERAL MOTORS

In addition to notifying NHTSA (or Transport Canada) in a situation like this, we certainly hope you'll notify us. Please call us at 1-800-458-8006, or write:

Cadillac Customer Assistance Center
Cadillac Motor Car Division
P.O. Box 436004
Pontiac, MI 48343-6004

In Canada, please call us at 1-800-263-3777 (English) or 1-800-263-7854 (French). Or, write:

General Motors of Canada Limited
Customer Communication Centre, 163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Ordering Service and Owner Publications in Canada

Service manuals, owner's manuals and other service literature are available for purchase for all current and past model General Motors vehicles.

The toll-free telephone number for ordering information in Canada is 1-800-668-5539.

2000 CADILLAC SERVICE PUBLICATIONS ORDERING INFORMATION

The following publications covering the operation and servicing of your vehicle can be purchased by filling out the Service Publication Order Form in this book and mailing it in with your check, money order, or credit card information to Helm, Incorporated (address below.)

CURRENT PUBLICATIONS FOR 2000 CADILLAC

SERVICE MANUALS

Service Manuals have the diagnosis and repair information on engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.

RETAIL SELL PRICE: \$120.00

TRANSMISSION, TRANSAXLE, TRANSFER CASE UNIT REPAIR MANUAL

This manual provides information on unit repair service procedures, adjustments and specifications for the 2000 GM transmissions, transaxles and transfer cases.

RETAIL SELL PRICE: \$50.00

SERVICE BULLETINS

Service Bulletins give technical service information needed to knowledgeably service General Motors cars and trucks.

Each bulletin contains instructions to assist in the diagnosis and service of your vehicle.

OWNER'S INFORMATION

Owner publications are written directly for Owners and intended to provide basic operational information about the vehicle.

Owner's Manual.

RETAIL SELL PRICE: \$15.00

CURRENT & PAST MODEL ORDER FORMS

Service Publications are available for current and past model GM vehicles. To request an order form, please specify year and model name of the vehicle.

PLEASE COMPLETE THE ORDER FORM SHOWN ON THE FOLLOWING PAGE AND MAIL TO:

Helm, Incorporated • P.O. Box 07130 • Detroit, MI 48207

OR ORDER TOLL FREE: 1-800-551-4123

Monday-Friday 8:00 AM – 6:00 PM Eastern Time

For Credit Card Orders Only (VISA–MasterCard–Discover)

ORDER TOLL FREE*(NOTE: For Credit Card Holders Only)***1-800-551-4123**

Monday-Friday 8:00 AM – 6:00 PM EST)

FAX Orders Only 1-313-865-5927

Orders will be mailed within 10 days of receipt. Please allow adequate time for postal service. If further information is needed, write to the address shown below or call 1-800-551-4123. Material cannot be returned for credit without packing slip with return information within 30 days of delivery. On returns, a re-stocking fee may be applied against the original order.

2 0 0 0 G M	PUBLICATION FORM NUMBER	ITEM DESCRIPTION	VEHICLE MODEL		QTY.	PRICE EACH*	TOTAL PRICE
			NAME	YEAR			
		Service Manual		2000		\$120.00	
		Car & Light Truck Transmission Unit Repair		2000		\$50.00	
		Owner's Manual		2000		\$15.00	

S H I P T O	NOTE: Dealers and Companies please provide dealer or company name, and also the name of the person to whose attention the shipment should be sent.		P A Y M E N T	<input type="checkbox"/> Check or Money Order payable to Helm, Inc. (USA funds only — <i>do not send cash.</i>)		TOTAL MATERIAL		
	Mail completed order form to: HELM, INCORPORATED • P.O. Box 07130 • Detroit, MI 48207			<input type="checkbox"/> MasterCard	Michigan Purchasers add 6% sales tax			
	For purchases outside U.S.A. please write to the above address for quotation.			<input type="checkbox"/> VISA	U.S. Order Processing		\$6.00	
	_____			<input type="checkbox"/> Discover	Canadian Postage (See Note Below)			
	_____			Account Number: <input type="text"/>	GRAND TOTAL			
(CUSTOMER'S NAME) (ATTENTION)		Expiration Date mo/yr: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="checkbox"/> Check here if your billing address is different from your shipping address shown. <input type="checkbox"/>					
_____		CUSTOMER SIGNATURE						
(STREET ADDRESS—NO P.O. BOX NUMBERS)								
(CITY) (STATE) (ZIP CODE)								
DAYTIME TELEPHONE NO. () _____								
AREA CODE								

GM-CAD-ORD99

*(Prices are subject to change without notice and without incurring obligation. Allow ample time for delivery.)

Note to Canadian Customers: All listed prices are quoted in U.S. funds. Canadian residents are to make checks payable in U.S. funds. To cover Canadian postage, add \$11.50 plus the U.S. order processing.

