

2002



PONTIAC

AZTEK



The 2002 Pontiac Aztek Owner's Manual



1-1 Seats and Restraint Systems

This section tells you how to use your seats and safety belts properly. It also explains the air bag system.

2-1 Features and Controls

This section explains how to start and operate your vehicle.

3-1 Comfort Controls and Audio Systems

This section tells you how to adjust the ventilation and comfort controls and how to operate your audio system.

4-1 Your Driving and the Road

Here you'll find helpful information and tips about the road and how to drive under different conditions.

5-1 Problems on the Road

This section tells you what to do if you have a problem while driving, such as a flat tire or overheated engine, etc.

6-1 Service and Appearance Care

Here the manual tells you how to keep your vehicle running properly and looking good.

7-1 Maintenance Schedule

This section tells you when to perform vehicle maintenance and what fluids and lubricants to use.

8-1 Customer Assistance Information

This section tells you how to contact Pontiac for assistance and how to get service and owner publications. It also gives you information on "Reporting Safety Defects" on page 8-10.



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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.

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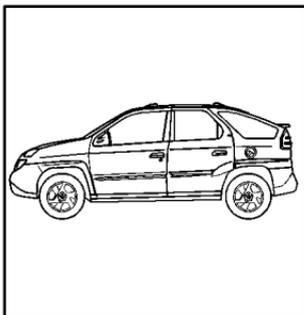
We support voluntary technician certification.

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:

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About Driving Your Vehicle

As with other vehicles of this type, failure to operate this vehicle correctly may result in loss of control or an accident. See “Your Driving, the Road and Your Vehicle” in the Index.

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.

 **CAUTION:**

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

Your vehicle may be equipped with components and labels that use symbols instead of text. Symbols, used on your vehicle, are shown along with the text describing the operation or information relating to a specific component, control, message, gage or indicator.

If you need help figuring out a specific name of a component, gage or indicator reference the following topics in the Index:

- “Engine Compartment Overview”
- “Instrument Panel”
- “Comfort Controls”
- “Audio Systems”

Also see “Warning Lights and Gages” in the Index.

These are some examples of vehicle symbols you may find on your vehicle:

CAUTION POSSIBLE INJURY		LATCH BOTH LAP AND SHOULDER BELTS TO PROTECT OCCUPANT DO NOT TWIST SAFETY BELT WHEN ATTACHING	 	MASTER LIGHTING SWITCH		ENGINE COOLANT TEMP		FUSE BOX ACCESS			
PROTECT EYES BY SHIELDING		FASTEN SEAT BELTS		AIR BAG		TURN SIGNALS		BATTERY CHARGING SYSTEM		ENGINE COOLANT FAN	
CAUSTIC BATTERY ACID COULD CAUSE BURNS		MOVE SEAT FULLY REARWARD SECURE CHILD SEAT		DO NOT INSTALL A REAR-FACING CHILD RESTRAINT IN THIS SEATING POSITION		PARKING LAMPS		BRAKE		FUEL	
AVOID SPARKS OR FLAMES		PULL BELT OUT COMPLETELY THEN SECURE CHILD SEAT		DO NOT INSTALL A FORWARD-FACING CHILD RESTRAINT IN THIS SEATING POSITION		HAZARD WARNING FLASHER		COOLANT		OWNER'S MANUAL	
SPARK OR FLAME COULD EXPLODE BATTERY		POWER WINDOW		DOOR LOCK UNLOCK		DAYTIME RUNNING LAMPS		ENGINE OIL PRESSURE		SERVICE	
						FOG LAMPS		ANTI-LOCK BRAKES		SERVICE MANUAL	



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	1-37	Rear Seat Passengers
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Seats and Seat Controls

This section tells you about the seats -- how to adjust them, take them out, put them back in, fold and unfold them.

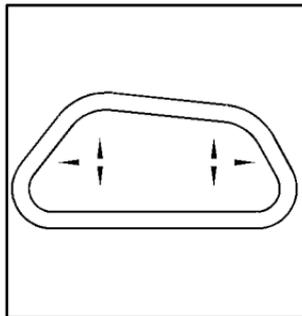
Manual Front Passenger Seat



To move the seat, pull the lever located on the front of the seat up to unlock it.

Slide the seat to where you want it and release the lever. To make sure the seat is locked into place, try to move the seat with your body.

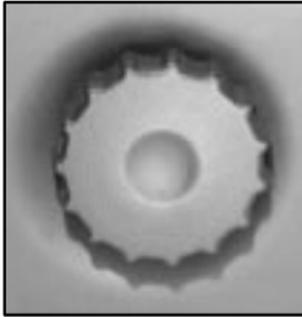
Six-Way Power Seat



The six-way power seat control is located on the outboard side of the driver's seat or on the outboard sides both the driver's and front passenger's seats.

- Move the front of the control up or down to adjust the front portion of the cushion up or down.
- Move the rear of the control up or down to adjust the rear portion of the cushion up or down.
- Lift up or push down on the whole control to move the entire seat up or down.
- To move the whole seat forward or rearward, slide the control toward the front or rear of the vehicle.

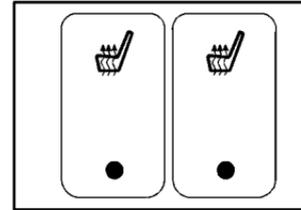
Manual Lumbar (If Equipped)



If your vehicle has this feature, the knob is located on the outboard sides of the driver's and front passenger's seats.

Turn the knob toward the front of the vehicle to increase lumbar support. Turn the knob toward the rear of the vehicle to decrease lumbar support.

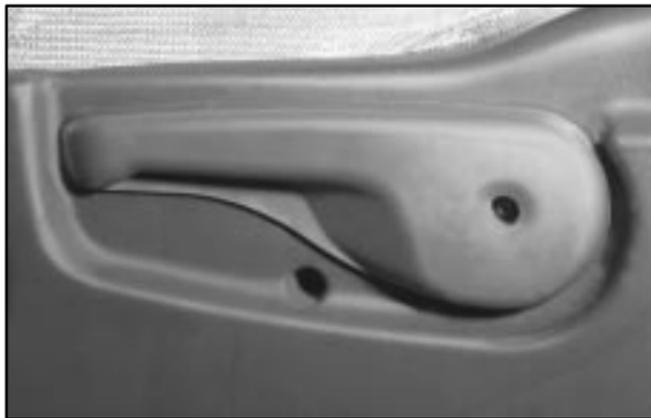
Heated Front Seats (Option)



If your vehicle has heated front seats, the switches are located in the instrument panel switchbank.

This feature will quickly heat the seat cushions and lower part of the driver's and front passenger's seatback for added comfort. The left switch is for the driver's seat and the right switch is for the front passenger's seat. Press the top of the switch to turn the heater on. Press the bottom of the switch to turn the heater off. The heated seat switch will turn off when the ignition is turned to OFF and will resume operation when the ignition is turned to ON, unless the switch is manually turned off.

Reclining Front Seatbacks



To adjust the seatback, pull up on the recliner lever located on the outboard sides of both the driver's and front passenger's seat.



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 because it won't be against your body. Instead, it will be in front of you. 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



Adjust your head restraint so that the top of the restraint is closest to the top of your head. This position reduces the chance of a neck injury in a crash.

The front seat head restraints in your vehicle are adjustable. Slide the head restraint up or down to adjust it. On some models, the head restraints tilt forward and rearward also.

Rear Seats

The rear seats in your vehicle have seat operating features to adjust, fold, remove and reinstall the seats. By using the seat operating features, in the correct order, you can easily remove the seats from your vehicle.

When you put the seats back in the vehicle, be sure to follow the label on the back of the seat for proper location.

Split Bench Seats

The seatbacks can be folded forward or reclined individually and the sections can be flipped forward or removed individually.

Folding or Reclining the Seatbacks



 **CAUTION:**

If the seatback isn't locked, it could move forward in a sudden stop or crash. That could cause injury to the person sitting there. Always press rearward on the seatback to be sure it is locked.

The seatbacks on each section of the split bench seat can be reclined or folded forward.

To recline the seatbacks, do the following.



Lift up on the recliner lever located on the outboard side of the seatback.

Use the recliner lever to move the seatback to the desired position.

It is easier to raise or lower the seatback if you lean forward and take the weight off the seatback.

To fold the seatback forward, do the following.

Lift up on the recliner lever and fold the seatback forward. The seatback will lock into place.

Lift up on the lever again to raise the seatback. The seatback will lock into place when you push it back to the upright position.

After raising a seatback to an upright position, push and pull on the seatback to check that it is locked upright.

Removing the Split Bench Seat

Each section of the split bench seat can be flipped forward or removed individually.

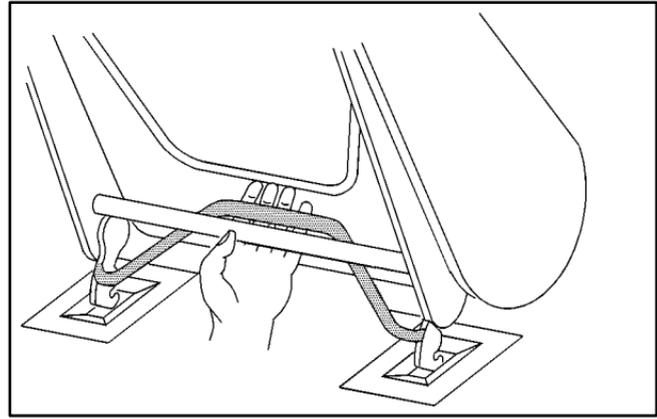


1. Unlatch the shoulder belt from the lap-belt.
2. Make sure the seatback is in the upright position.
3. Lift the seatback recliner lever to fold the seatback forward.



4. Pull the lever, located at the base on the outboard side of the seat, to release the rear latches from the floor pins and flip the seat forward.

The seat can stay in this position or it can be removed from the vehicle by following the next steps.



5. To release the front latches, squeeze the angled latch release bar toward the straight crossbar.
6. Remove the seat by rocking it slightly toward the rear of the vehicle and then pulling it out.

Repeat these steps for the other section of the split bench seat.

Replacing the Split Bench Sections

CAUTION:

If the seatback isn't locked, it could move forward in a sudden stop or crash. That could cause injury to the person sitting there. Always press rearward on the seatback to be sure it is locked.

CAUTION:

A seat that isn't locked into place properly can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to lock the seat into place properly when installing it.

CAUTION:

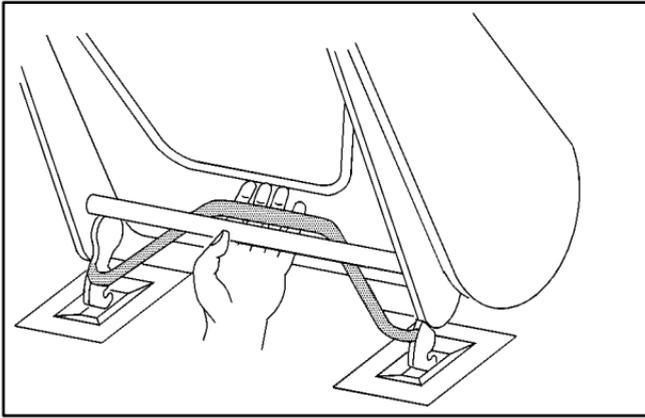
A safety belt that is improperly routed, not properly attached, or twisted won't provide the protection needed in a crash. The person wearing the belt could be seriously injured. After installing the seat, always check to be sure that the safety belts are properly routed and attached, and are not twisted.

Make sure the seatback is in the folded forward position and the safety belts are on the correct section of the seat.

Don't put the sections of the bench seat in so they face rearward because they won't latch that way.

The split bench seat sections have seat position labels, located on the back of each section, showing where the section must go.

The seat must be placed in the proper location for the legs to attach correctly.



1. Squeeze the angled latch release bar toward the straight crossbar while placing the front hooks of the bench seat onto the front two floor pins.



2. Make sure the bench seat is angled so that the front hooks clear the floor pins. If the front legs are not attached correctly, the rear legs will not attach to the rear set of floor pins.



3. Firmly push the rear hooks onto the rear floor pins by pushing down on the rear of the seat.

4. Try to raise the seat to check that it is locked down.
5. Lift the seatback recliner lever and raise the seatback until it locks upright.
6. Push and pull on the seatback to check that it is locked upright.
7. Attach the lap belt.

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.*

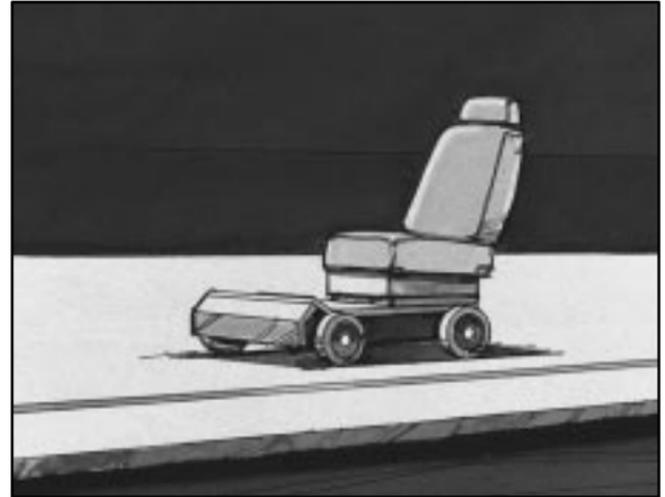
You never know if you'll be in a crash. If you do have a crash, you don't know if it will be a bad one.

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

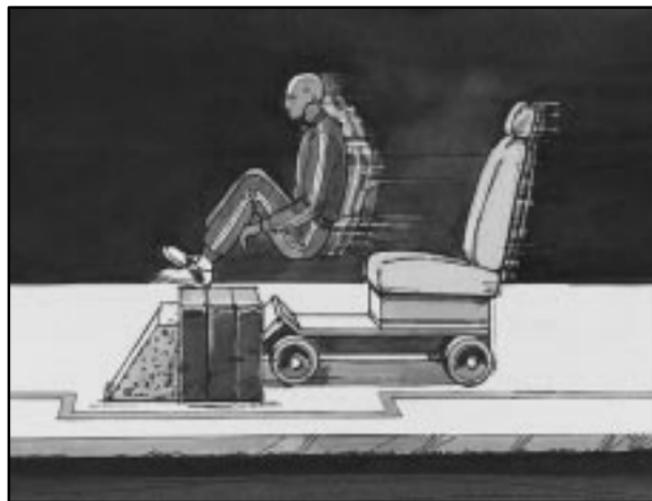
When you ride in or on anything, you go as fast as it goes.



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



Put someone on it.



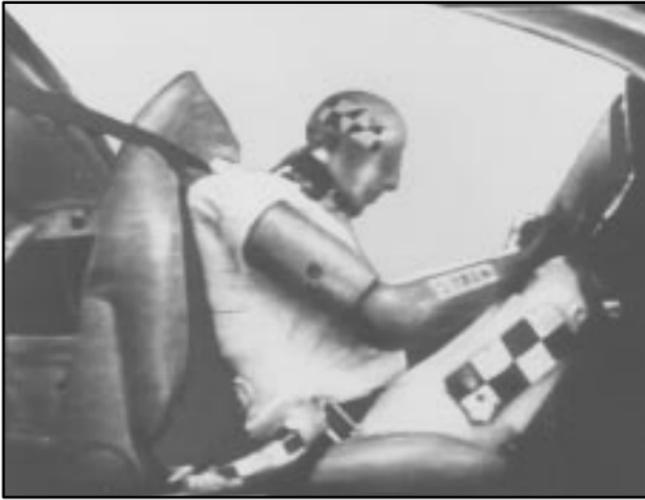
Get it up to speed. Then stop the vehicle. The rider doesn't stop.



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 so you can sit up straight. To see how, see "Seats" in the Index.



3. 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.

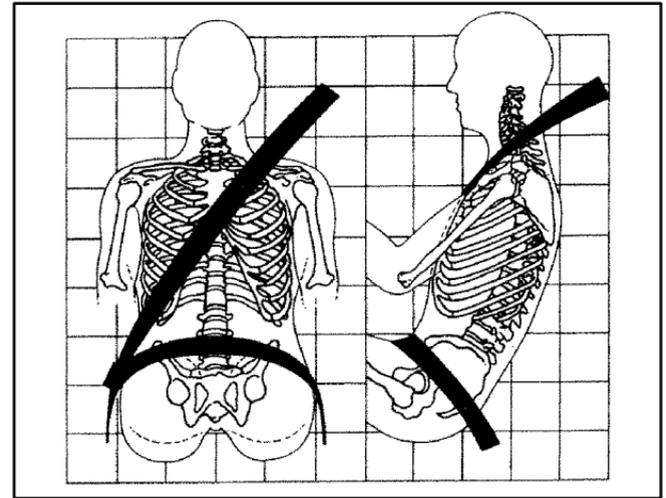
4. Push the latch plate into the buckle until it clicks.

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.



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



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.

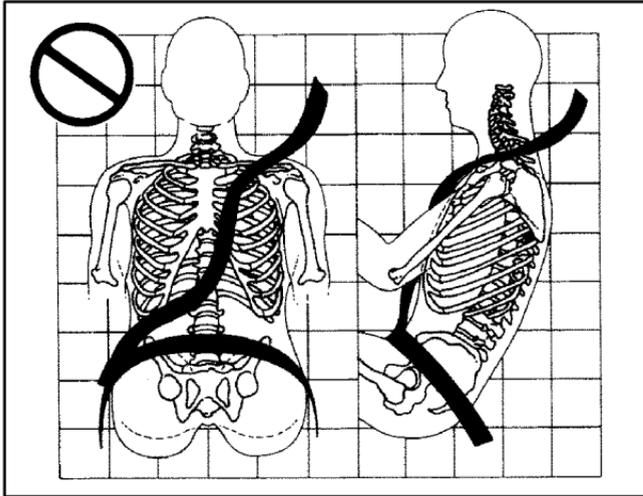


To move it down, push down on the button and move the height adjuster to the desired position.

You can move the adjuster up just by pushing up on the shoulder belt guide. After you move the adjuster to where you want it, try to move it down without pushing the button down 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.

Q: What's wrong with this?

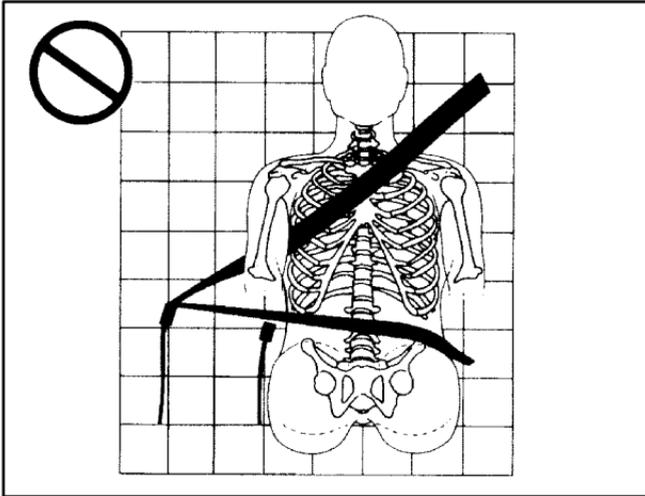


A: The shoulder belt is too loose. It won't give nearly as much protection this way.

⚠ 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.

Q: What's wrong with this?

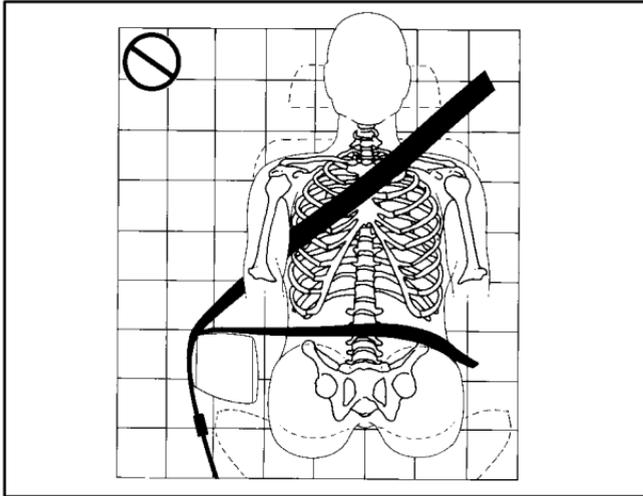


A: The belt is buckled in the wrong place.

⚠ 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?

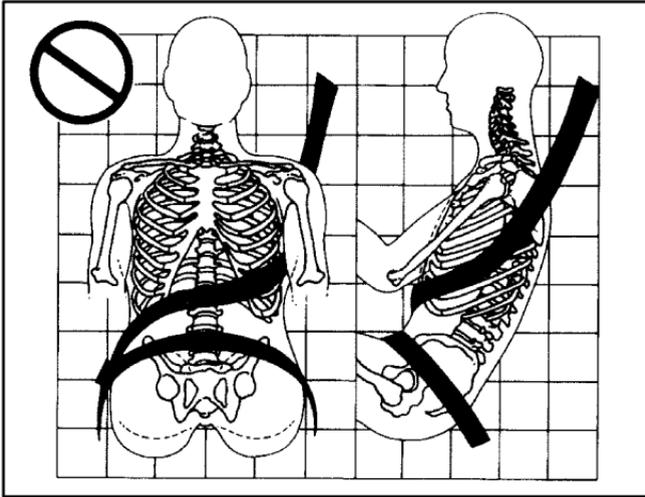


A: The belt is over an armrest.

⚠ CAUTION:

You can be seriously injured if your belt goes over an armrest like this. The belt would be much too high. In a crash, you can slide under the belt. The belt force would then be applied at the abdomen, not at the pelvic bones, and that could cause serious or fatal injuries. Be sure the belt goes under the armrests.

Q: What's wrong with this?

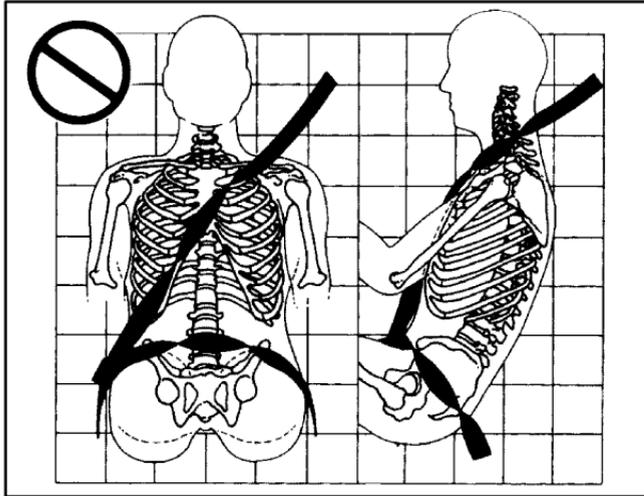


A: The shoulder belt is worn under the arm. It should be worn over the shoulder at all times.

⚠ 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.

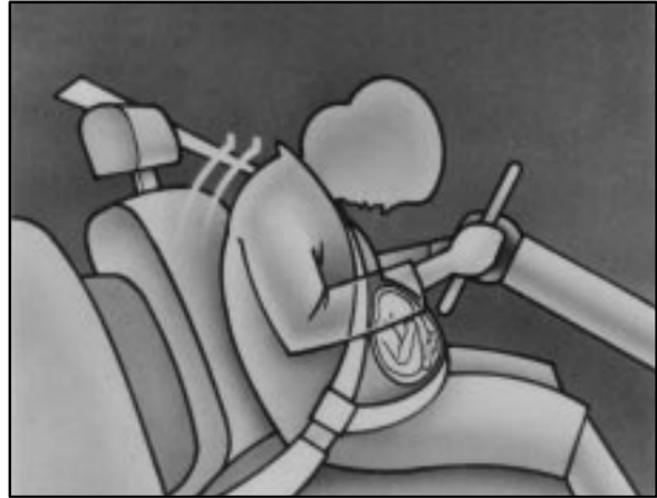


To unfasten the belt, just push the button on the buckle. The belt should go back out of the way.

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



Air Bag Systems

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

Your vehicle has four air bags -- a frontal air bag for the driver, another frontal air bag for the right front passenger, a side impact air bag for the driver, and another side impact air bag for the right front passenger.

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.

CAUTION: (Continued)

CAUTION: (Continued)

Air bags are designed to work with safety belts but don't replace them.

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 or low-speed frontal crashes, or in many side crashes. And, for some unrestrained occupants, frontal air bags may provide less protection in frontal crashes than more forceful air bags have provided in the past. The side impact air bags for the driver and right front passenger 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. Front 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."



There is an air bag readiness light on the instrument panel, which shows the 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 right front passenger's frontal air bag is in the instrument panel on the passenger's side.



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

⚠ 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 causing severe injury or even death. 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. 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. But they 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 12 to 19 mph (19 to 31 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, rear impacts, or in many side 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 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 many 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 driver's and right front passenger's 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 driver and right front passenger's 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.

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. The module also records 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 and right front passenger's 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 driver's and right front passenger's 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.

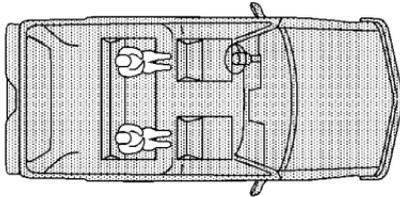
The air bag systems do not need regular maintenance.

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 Outside Passenger Positions



Lap-Shoulder Belt

The positions next to the windows 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.



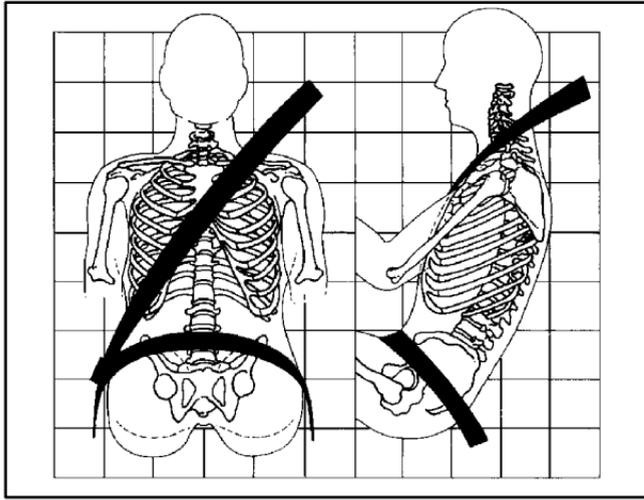
If the belt stops before it reaches the buckle, tilt the latch plate and keep pulling until you can buckle it.

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.

⚠ 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.

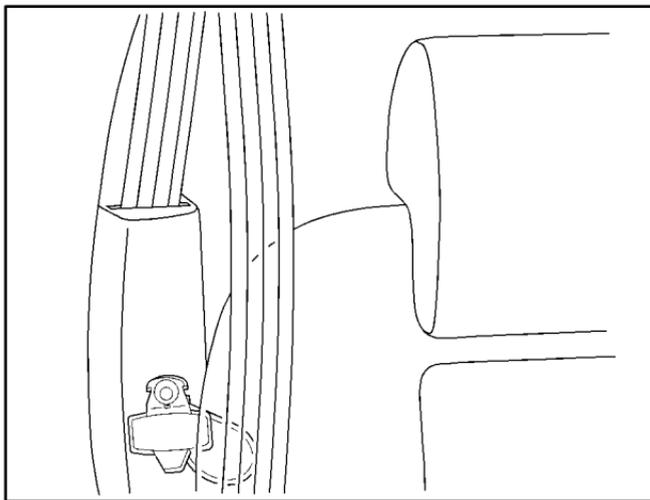


Rear Safety Belt Comfort Guides for Children and Small Adults

Rear shoulder belt comfort guides will provide added safety belt comfort for older children who have outgrown booster seats and for small adults. When installed on a shoulder belt, the comfort guide better positions the belt away from the neck and head.

There is one guide for each 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:

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



Second Row Outside Positions

For second row outside positions do the following:

1. Remove the guide from its storage clip located on the sidewall next to the outboard side of each outside passenger position seat.



2. Place the guide over the belt and insert the two edges of the belt into the slots of the guide.

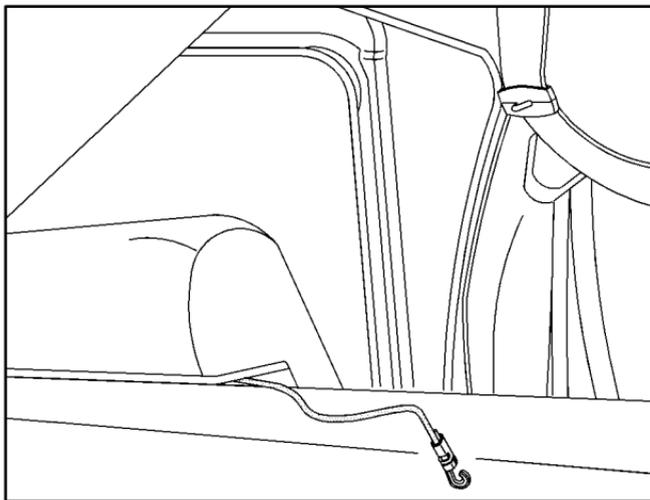


3. Be sure that the belt is not twisted and it lies flat. The guide must be on top of the belt.



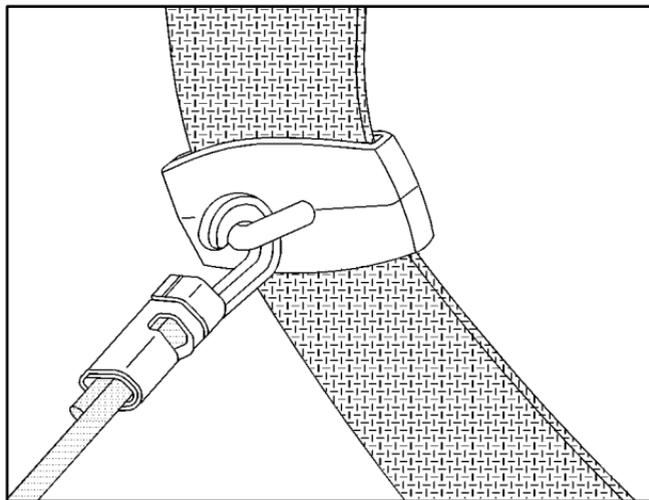
4. Buckle, position and release the safety belt as described in “Rear Seat Outside Passenger Positions” earlier in this section. Make sure that the shoulder belt crosses the shoulder.

To remove and store the comfort guides, squeeze the belt edges together so that you can take them out of the guides. Pull the guide upward to expose its storage clip, and then slide the guide onto the clip. Turn the guide and the clip inward leaving only the loop of elastic cord exposed.

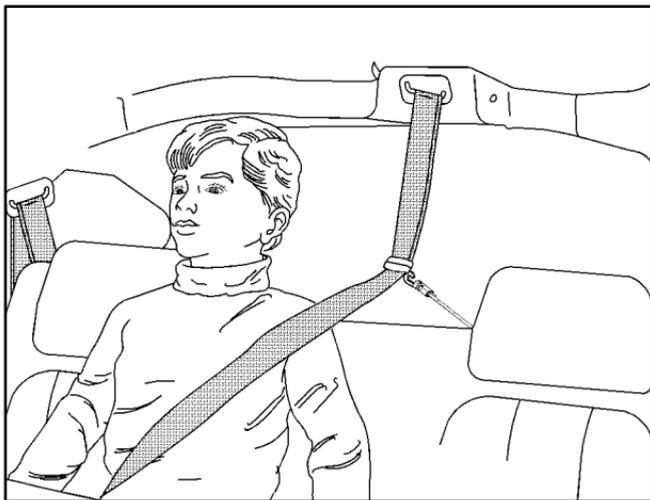


Second Row Center Position

1. Remove the elastic cord from under the driver's side of the head restraint.



2. Attach the elastic cord to the comfort guide on the center passenger shoulder belt.

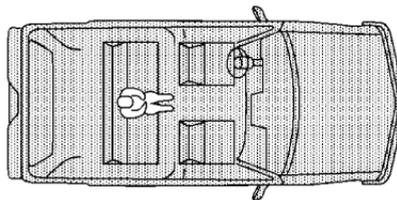


3. Be sure the belt is not twisted and it lies flat. The guide must be on top of the belt.
4. Buckle, position and release the safety belt as described in “Center Passenger Position” later in this section. Make sure that the shoulder belt crosses over the shoulder.

To remove and store the elastic cord, remove it from the comfort guide. The elastic cord will go back under the driver’s side head restraint.

Center Passenger Position

Lap-Shoulder Belt

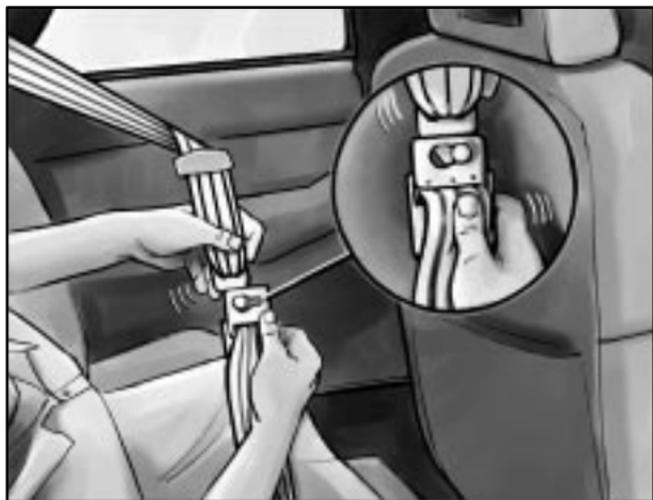


If your vehicle has a bench seat, someone can sit in the center position.

When you sit in the center seating position, you have a lap safety belt, which has no retractor. You also have a shoulder belt, which has a retractor. In order to have the protection of the shoulder belt, you must first connect it to the lap belt.



Remove the shoulder belt from its stowage location in the roof and pull it all the way down to the lap belt.



Insert the metal knob on the shoulder belt into the keyhole on the lap belt buckle as shown. Be sure to slide the shoulder belt part into the keyhole until it locks into place.



To make the lap 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 the lap-shoulder belt the same way as the other lap-shoulder belts. 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.

Children

Everyone in a vehicle needs protection! This includes infants and all other children. 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.

Infants and Young Children

Every time infants and young children ride in vehicles, they should have the protection provided by the appropriate restraint. Young children should not use the vehicle's safety belts, unless there is no other choice.



⚠ CAUTION:

People should never hold a baby in their arms while riding in a vehicle. A baby doesn't weigh much -- until a crash. During a crash a baby will become so heavy it is not possible to hold it. For example, in a crash at only 25 mph (40 km/h), a 12-lb. (5.5 kg) baby will suddenly become a 240-lb. (110 kg) force on a person's arms. A baby should be secured in an appropriate restraint.



⚠ 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 outstanding protection for adults and older children, 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.

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

A: Add-on child restraints, which are purchased by the vehicle's owner, are available in four basic types. Selection of a particular restraint should take into consideration not only the child's weight, height and age but also whether or not the restraint will be compatible with the motor vehicle in which it will be used.

For most basic types of child restraints, there are many different models available. When purchasing a child restraint, be sure it is designed to be used in a motor vehicle. If it is, the restraint will have a label saying that it meets federal motor vehicle safety standards.

The restraint manufacturer's instructions that come with the restraint state the weight and height limitations for a particular child restraint. In addition, there are many kinds of restraints available for children with special needs.

 **CAUTION:**

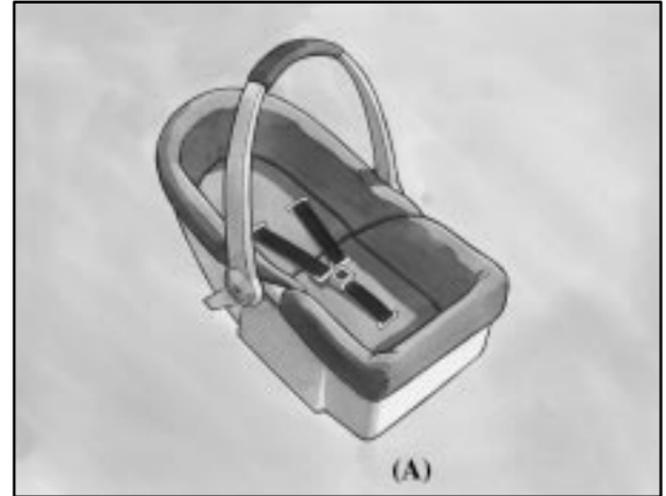
Newborn infants need complete support, including support for the head and neck. This is necessary because a newborn infant's neck is weak and its head weighs so much compared with the rest of its body. In a crash, an infant in a rear-facing seat settles into the restraint, so the crash forces can be distributed across the strongest part of an infant's body, the back and shoulders. Infants always should be secured in appropriate infant restraints.



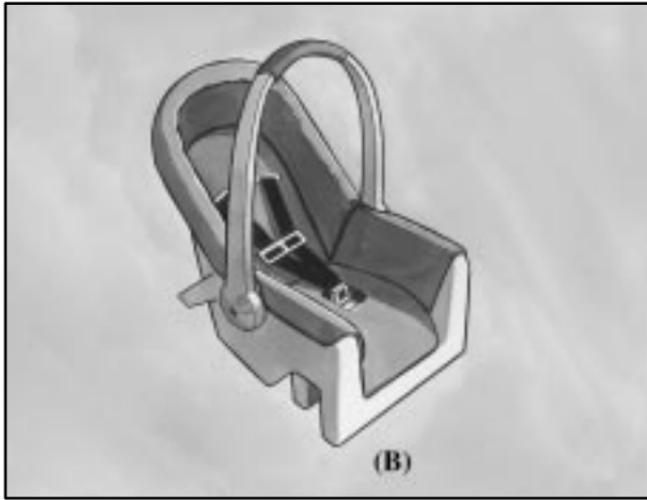
CAUTION:

The body structure of a young child is quite unlike that of an adult or older child, for whom the safety belts are designed. A young child's hip bones are still so small that the vehicle's regular safety belt may not remain low on the hip bones, as it should. Instead, it may settle up around the child's abdomen. In a crash, the belt would apply force on a body area that's unprotected by any bony structure. This alone could cause serious or fatal injuries. Young children always should be secured in appropriate child restraints.

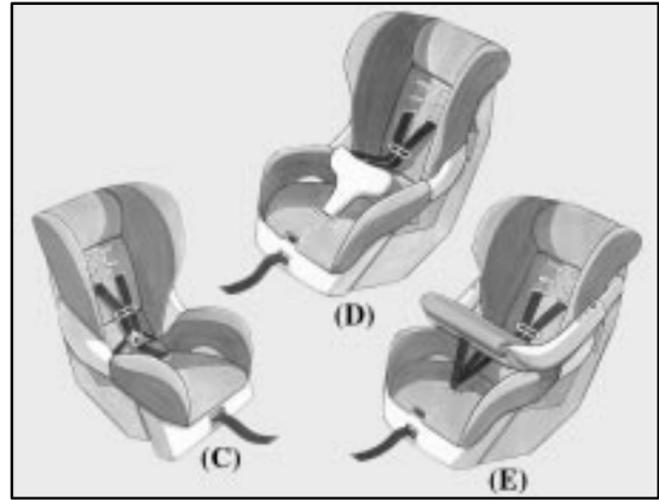
Restraint Systems for Children



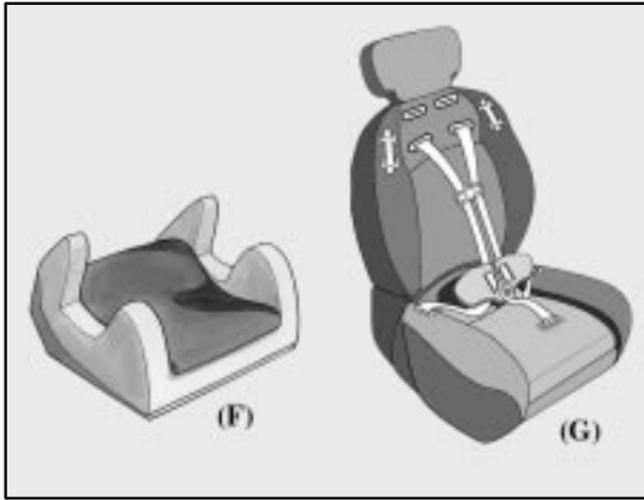
An infant car bed (A), a special bed made for use in a motor vehicle, is an infant restraint system designed to restrain or position a child on a continuous flat surface. Make sure that the infant's head rests toward the center of the vehicle.



A rear-facing infant seat (B) provides restraint with the seating surface against the back of the infant. The harness system holds the infant in place and, in a crash, acts to keep the infant positioned in the restraint.



A forward-facing child seat (C-E) provides restraint for the child's body with the harness and also sometimes with surfaces such as T-shaped or shelf-like shields.



A booster seat (F-G) is a child restraint designed to improve the fit of the vehicle's safety belt system. Some booster seats have a shoulder belt positioner, and some high-back booster seats have a five-point harness. A booster seat can also help a child to see out the window.

Q: How do child restraints work?

A: A child restraint system is any device designed for use in a motor vehicle to restrain, seat, or position children. A built-in child restraint system is a permanent part of the motor vehicle. An add-on child restraint system is a portable one, which is purchased by the vehicle's owner.

For many years, add-on child restraints have used the adult belt system in the vehicle. To help reduce the chance of injury, the child also has to be secured within the restraint. The vehicle's belt system secures the add-on child restraint in the vehicle, and the add-on child restraint's harness system holds the child in place within the restraint.

One system, the three-point harness, has straps that come down over each of the infant's shoulders and buckle together at the crotch. The five-point harness system has two shoulder straps, two hip straps and a crotch strap. A shield may take the place of hip straps. A T-shaped shield has shoulder straps that are attached to a flat pad which rests low against the child's body. A shelf- or armrest-type shield has straps that are attached to a wide, shelf-like shield that swings up or to the side.

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. When securing an add-on child restraint, refer to the instructions that come with the restraint which may be on the restraint itself or in a booklet, or both, and to this manual. The child restraint instructions are important, so if they are 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. General Motors, therefore, recommends that child restraints be secured in a rear seat including an infant riding in a rear-facing infant seat, a child riding in a forward-facing child seat and an older child riding in a booster 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.

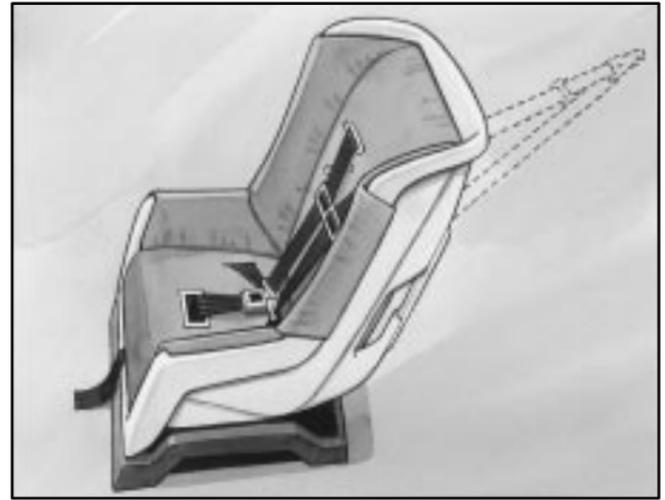
Wherever you install it, be sure to secure the child restraint properly.

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

Some child restraints have a top strap, or “top tether.” It can help restrain the child restraint during a collision. For it to work, a top strap must be properly anchored to the vehicle. Some top strap-equipped child restraints are designed for use with or without the top strap being anchored. Others require the top strap always to be anchored. Be sure to read and follow the instructions for your child restraint. If yours requires that the top strap be anchored, don’t use the restraint unless it is anchored properly.

If the child restraint does not have a top strap, one can be obtained, in kit form, for many child restraints. Ask the child restraint manufacturer whether or not a kit is available.



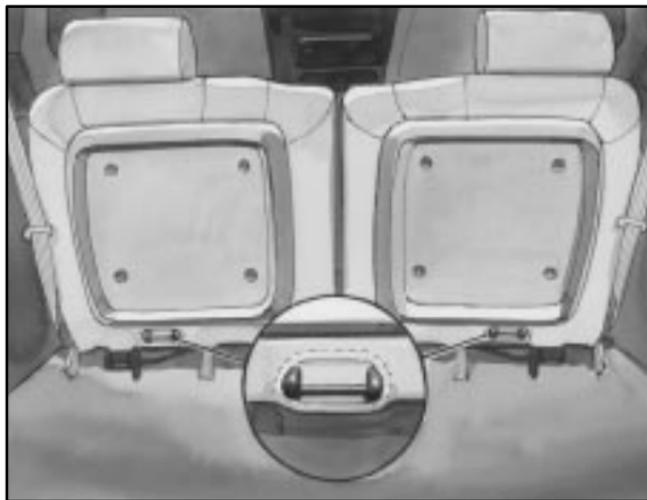
In Canada, the law requires that forward-facing child restraints have a top strap, and that the strap be anchored. In the United States, some child restraints also have a top strap. If your child restraint has a top strap, it should be anchored.

Anchor the top strap to one of the following anchor points. Be sure to use an anchor point located on the same side of the vehicle as the seating position where the child restraint will be placed. If you have an adjustable head restraint, route the top strap under it.

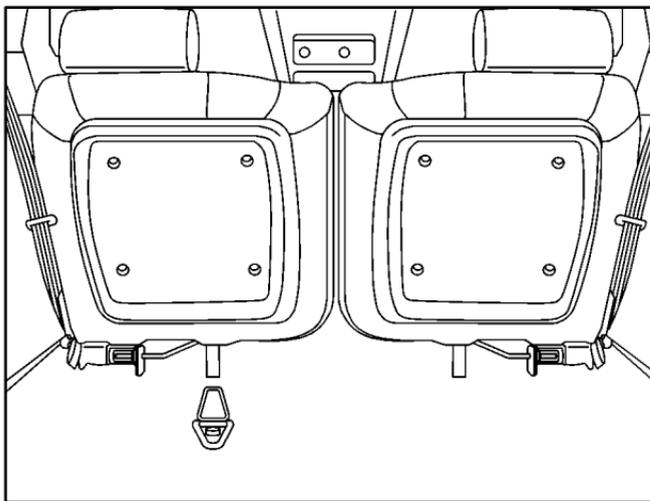
If you're using a top strap-equipped child restraint in the center rear seat and need to temporarily transport a flat tire for repair, move the child restraint to a rear seat outboard position. See "Securing a Child Restraint in a Rear Outside Seat Position" for more on this, including important safety information.

Once you have the top strap anchored, you'll be ready to secure the child restraint itself. Tighten the top strap when and as the child restraint manufacturer's instructions say.

Your vehicle has top strap anchors already installed for the rear seating positions. An anchor bar for a top strap is located at the rear of the seat cushion for each second row outboard seating position and the anchor bar for the center position bench seat is located on the floor behind the second row seats. If your vehicle has the sliding rear convenience/cargo tray, you need to remove a plastic plug and look under the convenience tray to find the anchor bar for the center position for the bench seat.



Outside Position Bench Seat

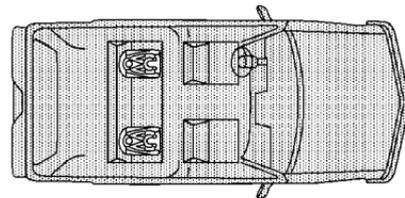


Center Position Bench Seat

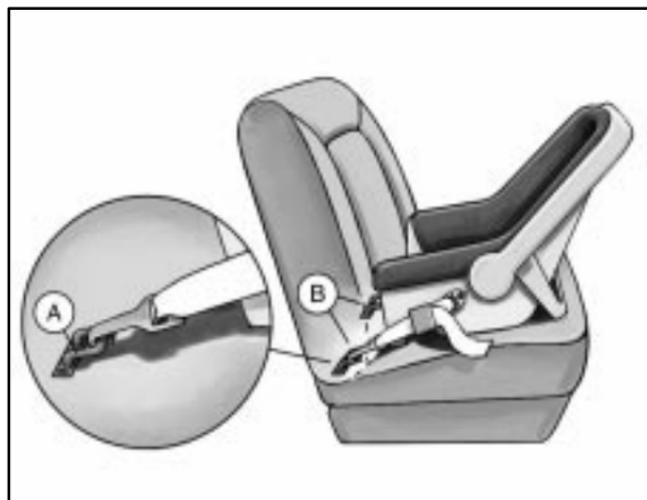
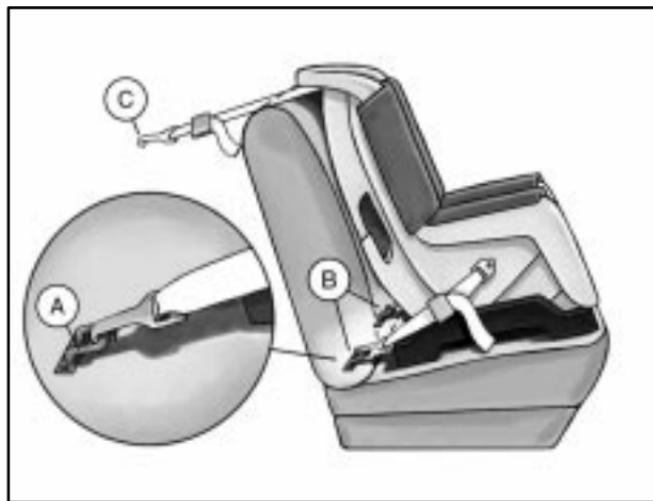
Lower Anchorage and Top Tethers for Children (LATCH System)

Your vehicle has the LATCH system. You'll find anchors (A) in both rear seat outside passenger positions.

To assist you in locating the lower anchors for this child restraint system, each seating position with the LATCH system will have latches between the seatback and cushion.



In order to use the system, you need either a forward-facing child restraint that has attaching points (B) at its base and a top tether anchor (C), or a rear-facing child restraint that has attaching points (B), as shown here.



With this system, use the LATCH system instead of the vehicle's safety belts to secure a child restraint.



CAUTION:

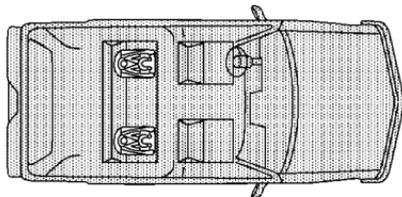
If a LATCH-type child restraint isn't attached to its anchorage points, the restraint won't be able to protect a child sitting there. In a crash, the child could be seriously injured or killed. Make sure that a LATCH-type child restraint is properly installed using the anchorage points, or use the vehicle's safety belts to secure the restraint. See "Securing a Child Restraint in a Rear Outside Seat Position" in the Index for information on how to secure a child restraint in your vehicle using the vehicle's safety belts.

Securing a Child Restraint Designed for the LATCH System

1. Find the anchors for the seating position you want to use, where the bottom of the seatback meets the back of the seat cushion.
2. Put the child restraint on the seat.
3. Attach the anchor points on the child restraint to the anchors in the vehicle. The child restraint instructions will show you how.
4. If the child restraint is forward-facing, attach the top strap to the top strap anchor. See "Top Strap" in the Index. Tighten the top strap according to the child restraint instructions.
5. Push and pull the child restraint in different directions to be sure it is secure.

To remove the child restraint, simply unhook the top strap from the top tether anchor and then disconnect the anchor points.

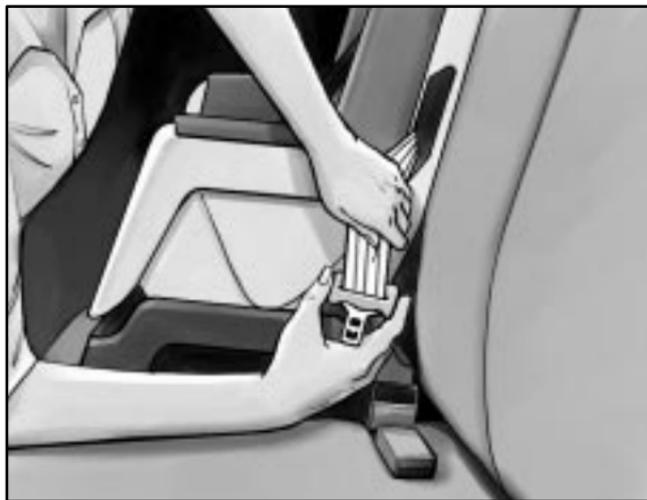
Securing a Child Restraint in a Rear Outside Seat Position



If your child restraint is equipped with the LATCH system, see “Lower Anchorages and Top Tethers for Children (LATCH)” in the Index.

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.



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.



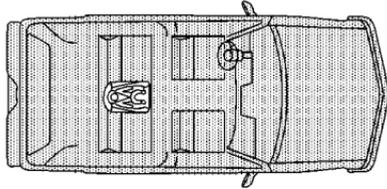
3. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



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 Center Rear Seat Position (Bench Seat)



The center rear seating position has a lap-shoulder belt. To secure a child restraint in this position, you'll use only the lap part of the belt. Disconnect the shoulder part of the belt and store it before securing a child restraint.

If you're using a top strap-equipped child restraint in the center rear seat and need to temporarily transport a flat tire for repair, move the child restraint to a rear seat outboard position. See "Securing a Child Restraint in a Rear Outside Seat Position" for more on this, including important safety information.

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.

See the earlier part about the top strap if the child restraint has one.

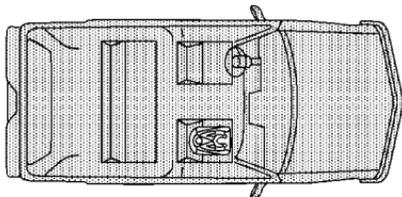


1. Make the belt as long as possible by tilting the latch plate and pulling it along the belt.
2. Put the restraint on the seat.
3. Run the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.



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. To tighten the belt, pull its free end 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.
 6. 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. When you remove the child restraint, be sure to reconnect the lap and shoulder parts of the belt so they will 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 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 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.

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.

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.



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. To tighten the belt, pull up on the shoulder belt 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.

6. 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.

Older Children



Older children who have outgrown booster seats should wear the vehicle's safety belts.

Q: What is the proper way to wear safety belts?

A: If possible, an older child should wear a lap-shoulder belt and get the additional restraint a shoulder belt can provide. The shoulder belt should not cross the face or neck. The lap belt should fit snugly below the hips, just touching the top of the thighs. It should never be worn over the abdomen, which could cause severe or even fatal internal injuries in a crash.

Accident statistics show that children are safer if they are restrained in the rear seat.

In a crash, children who are not buckled up can strike other people who are buckled up, or can be thrown out of the vehicle. Older children need to use safety belts properly.



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: Move the child toward the center of the vehicle, but 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 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, see "Rear Safety Belt Comfort Guides" in the Index.

⚠ 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.



⚠ 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



CAUTION:

A crash can damage the restraint systems in your vehicle. A damaged restraint system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible.

If you've had a crash, do you need new belts or LATCH system parts?

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 parts.

If the LATCH system was being used during a more severe crash, you may need new LATCH system parts.

If you ever see a label on the driver's or right front passenger's safety belt that says to replace the belt, be sure to do so. Then the new belt will be there to help protect you in a collision. You would see this label on the belt near the door opening.

If belts are cut or damaged, replace them. Collision damage also may mean you will need to have LATCH system, safety belt or seat parts repaired or replaced. New parts and repairs may be necessary even if the belt or LATCH system 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.



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.

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Windows

CAUTION:

Leaving children in a vehicle with the windows closed is dangerous. A child can be overcome by the extreme heat and can suffer permanent injuries or even death from heat stroke. Never leave a child alone in a vehicle, especially with the windows closed in warm or hot weather.



Power Windows



Switches on the driver's door armrest control each of the windows when the ignition is in ON, ACCESSORY, or when Retained Accessory Power (RAP) is active. See "Retained Accessory Power" in the Index. In addition, each passenger's door has a window switch.

The driver's power window switch has two down positions. Press the rear of the switch to the first position to lower the window normally.

Press the rear of any passenger window switch and that window will open. Press the front of any switch to close the window.

Express-Down Window

To activate the express-down feature, press the rear of the driver's window switch marked with the word AUTO to the second position, then release it. The window will lower completely.

To stop the window while it is lowering, press the front of the switch. To raise the window, press and hold the front of the switch.

Rear Window Lock Out

The driver's window controls also include a lock-out switch. Press the right side of the WDO LOCK switch to stop rear passengers from using their window switches. The driver can still control all of the windows with the lock on. Press the left side of the WDO LOCK switch for normal window operation.

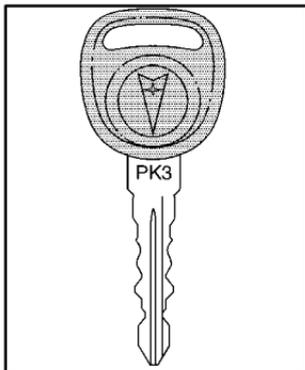
Keys

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. Don't leave the keys in a vehicle with children.





The master key can be used for the ignition as well as all the door locks, the liftgate/tailgate lock and the glovebox.

If you need a new key, contact your dealer, who can obtain the correct key code.

Your vehicle has the PASS-Key[®] III vehicle theft system. The key has a transponder in the key head that matches a decoder in the vehicle's steering column. If a replacement key or any additional key is needed, you must purchase this key from your dealer. The key will have PK3 stamped on it. Keep the bar code tag that came with the original keys. Give this tag to your dealer if you need a new key made.

Any new PASS-Key III key must be programmed before it will start your vehicle. See "PASS-Key[®] III" in the Index for more information on programming your new key.

NOTICE:

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

If you ever do get locked out of your vehicle, call the Pontiac Roadside Assistance center. See "Roadside Assistance" in the Index.

If your vehicle is equipped with the OnStar system with an active subscription and you lock your keys inside the vehicle, OnStar may be able to send a command to unlock your vehicle. See "OnStar" in the Index for more information.

Door Locks

CAUTION:

Unlocked doors can be dangerous.

- **Passengers -- especially children -- can easily open the doors and fall out of a moving vehicle. When a door is locked, the handle won't open it. You increase the chance of being thrown out of the vehicle in a crash if the doors aren't locked. So, wear safety belts properly and lock the doors whenever you drive.**
- **Young children who get into unlocked vehicles may be unable to get out. A child can be overcome by extreme heat and can suffer permanent injuries or even death from heat stroke. Always lock your vehicle whenever you leave it.**
- **Outsiders can easily enter through an unlocked door when you slow down or stop your vehicle. Locking your doors can help prevent this from happening.**

There are several ways to lock and unlock your vehicle.

From the outside, use your key or press UNLOCK on the optional remote keyless entry transmitter. See "Remote Keyless Entry" in the Index for more information.

To unlock either front door from the outside with the key, insert the key and turn it toward the front of the vehicle. To lock either front door from the outside with the key, insert the key and turn it toward the rear of the vehicle.



To lock any door from the inside, press the manual locking lever forward. To unlock any door from the inside, pull back on the manual locking lever.

Power Door Locks



The power door lock switches are located on both the driver's and the front passenger's door armrests.

Press the top part of the switch to lock all doors, or press the bottom part of the switch to unlock all doors.

The rear doors do not have power door lock switches. Instead, each rear door has a manual lever that works only that door's lock.

If your vehicle is equipped with the content theft-deterrent system, the power door lock switch may cause the system to arm. See "Content Theft-Deterrent System" in the Index for more information.

Delayed Locking

With the delayed locking feature, the doors will not lock immediately when locking the doors using the power door lock switch or when LOCK on the optional remote keyless entry transmitter is pressed while any door is open. Instead, three chimes will be heard to indicate that the delayed locking feature is in operation. Five seconds after all doors are closed, the doors will then lock automatically.

If the ignition is in ON or ACCESSORY, this feature will not lock the doors.

To program the delayed locking feature, see "Vehicle Customization" in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see "Driver Information Center" in the Index.

Automatic Door Lock/Unlock

All of the doors will automatically lock when all doors are closed, the engine is running and the shift lever is shifted out of PARK (P). All of the doors will automatically unlock when the shift lever is shifted into PARK (P).

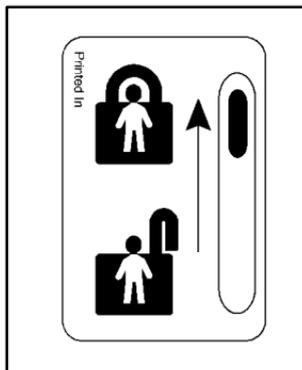
With the automatic door lock feature, you can still lock or unlock the doors at any time, either manually, with the power door lock switches or by pressing the LOCK or UNLOCK buttons on the optional remote keyless entry transmitter. See “Remote Keyless Entry” in the Index for more information.

To program the automatic door lock feature, see “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Driver Information Center” in the Index.

Rear Door Child 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 one of these locks:

1. Open one of the rear doors.
2. On the inside of the rear door will be a lock. Press the lever up to engage the safety lock.



3. Close the door.
4. Repeat Steps 1 through 3 for the other rear door lock.

The rear doors on your vehicle cannot be opened from inside the vehicle when this feature is in use. If you want to open a rear door when the security lock is on, unlock the door from the inside and then open the door from the outside.

Canceling the Rear Door Child Security Locks

1. Unlock the rear door and open the door from the outside.
2. Press the lever down to disengage the safety lock.
3. Close the door.
4. Repeat Steps 1 through 3 for the other rear door lock.

The rear door locks will now work normally.

Lockout Prevention

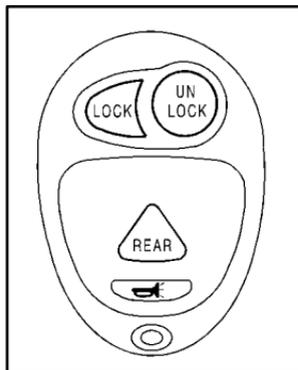
The lockout prevention feature makes it difficult for you to lock your keys in your vehicle. If any door is open while the key is in the ignition, pressing a power door lock switch will lock all doors, then unlock the driver's door.

If you leave the key in your vehicle but not in the ignition or if you use the manual door lock, you could still lock the key in the vehicle. Always remember to take the key with you.

Leaving Your Vehicle

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

Remote Keyless Entry System (Option)



If your vehicle has this feature, you can lock and unlock your doors 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 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.

At times you may notice a decrease in range. This is normal for any remote keyless entry system. 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

Remote Driver Door Unlock

When you press UNLOCK on the remote keyless entry transmitter, only the driver's door will unlock. If you press UNLOCK again within five seconds, the passenger's doors will unlock.

If you would like all the doors to unlock the first time you press UNLOCK, see "Vehicle Customization" in the Index.

The UNLOCK button on the remote keyless entry transmitter will disarm the content theft-deterrent system. See "Content Theft-Deterrent" in the Index for more information.

Remote All Door Lock

To lock all doors, press LOCK on the remote keyless entry transmitter.

The LOCK button on the remote keyless entry transmitter will arm the content theft-deterrent system. See "Content Theft-Deterrent" in the Index for more information.

Remote Liftgate Unlock

To unlock the liftgate, press REAR on the remote keyless entry transmitter. See “Liftgate/Tailgate” in the Index for more information.

Remote Lock Confirmation

When you use the remote keyless entry transmitter to lock your vehicle, the headlamps and parking lamps will flash briefly to let you know the command has been received. If you press the LOCK button again, within five seconds, the horn will sound briefly to let you know the vehicle is already locked.

If you would like to change the way the headlamps, parking lamps and horn operate with remote lock confirmation, see “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Driver Information Center” in the Index.

Remote Unlock Confirmation

When you use your remote keyless entry transmitter to unlock your vehicle, the headlamps and parking lamps will flash briefly to let you know the command was received.

If you would like to change the way the headlamps and parking lamps operate with remote unlock confirmation, see “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Driver Information Center” in the Index.

Remote Alarm

When you press the horn button on the remote keyless entry transmitter, the headlamps and the parking lamps will flash and the horn will sound. This will allow you to attract attention, if needed.

Press the horn button again to stop the alarm from sounding.

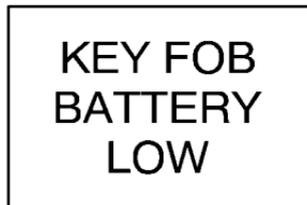
Matching Transmitter(s) to Your Vehicle

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. Remember to bring any remaining transmitters with you when you go to your dealer. When the dealer matches the replacement transmitter to your vehicle, any remaining transmitters must also be matched. Once your dealer has coded the new transmitter, the lost transmitter will not unlock your vehicle. Each vehicle can have a maximum of four transmitters matched to it.

See your dealer to match transmitters to another vehicle.

Battery Replacement

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



United States



Canada

You can tell the battery is weak if the KEY FOB BATTERY LOW message appears in the message center. If you get this message, the battery in the key fob needs to be replaced.

Replacing the Battery in the Remote Transmitter

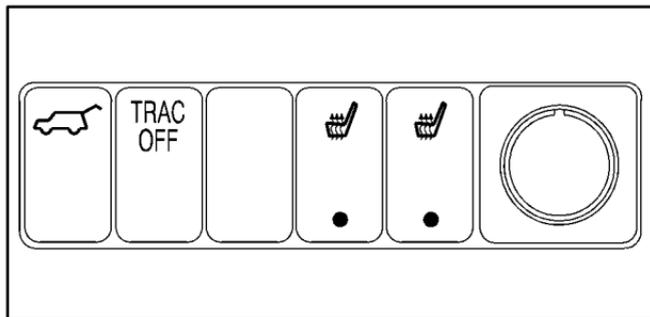
NOTICE:

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.

To replace the battery, do the following:

1. Insert a flat object, such as a coin, into the slot on the side of the transmitter and twist to separate the halves.
2. Gently pry the battery out of the transmitter. Do not use the metal flanges to pop out the battery.
3. Replace the battery.
4. Reassemble the transmitter. Make sure the halves are snapped together tightly so water will not get in.
5. Check the transmitter operation.

Instrument Panel Switchbank



There is an instrument panel switchbank located on the instrument panel, below the comfort controls. The switches will vary with the options that are on your vehicle.

The instrument panel switchbank consists of either four switches and a blank or two switches and a storage bin. Both versions contain a cigarette lighter. The four switches are a standard rear liftgate release and optional traction disable and heated seats. A nonfunctional blank switch is substituted when an optional function is not included on the vehicle.

For more information, see each of these features in the Index.

Vehicle Customization

Some of your vehicle's features can be reset or customized according to your preference. The features you can program depend on the options that came with your vehicle.

If your vehicle is equipped with the DIC, see "Driver Information Center" in the Index to customize your features.

The following features can be customized according to the options that your vehicle has, if you do not have the DIC.

Entering Programming Mode

To program features, your vehicle must be in the programming mode. Follow these steps:

1. Turn the ignition key to ON. The shift lever must be in PARK (P).
2. Press and hold the trip/reset button, located next to the odometer, while the odometer is in odometer mode, for two seconds.



United States



Canada

3. This message will appear in the message center, located in the instrument panel cluster, as an indication that your vehicle is ready to begin programming.

If you have the optional remote keyless entry system, you must press the LOCK button. This lets the system know which transmitter is being personalized. Each remote keyless entry transmitter can be personalized differently.

You can now program your choices.

To exit the programming mode, follow the steps listed under “Exiting Programming Mode” later in this section.

Headlamp Exit Delay

This feature allows you to customize the headlamps and parking lamps.

Programmable Modes

Mode 1: Off (The headlamps and parking lamps will turn off at the same time that the ignition is turned to OFF.)

Mode 2: 15-Second Activation (The headlamps and parking lamps will stay on for 15 seconds when the ignition is turned to OFF.)

Mode 3: 30-Second Activation (The headlamps and parking lamps will stay on for 30 seconds when the ignition is turned to OFF.)

Mode 4: 60-Second Activation (The headlamps and parking lamps will stay on for 60 seconds when the ignition is turned to OFF.)

Before your vehicle was shipped from the factory, it was programmed in Mode 3. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Turn the exterior lamps control from the off position to the parking lamp position.
3. Count the number of chimes you hear. The number of chimes indicates the vehicle’s current programmed mode. If you do not wish to change the current mode, you can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.
4. Turn the exterior lamps control from the off position to the parking lamp position to change the current mode.
5. Turn the exterior lamps control from the off position to the parking lamp position until you hear the number of chimes corresponding to the mode selection you want.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Automatic Door Lock/Unlock

This feature allows you to lock and unlock all of the doors automatically.

Programmable Modes

Mode 2: Automatic Door Locking Only

- Shift out of PARK (P) with the ignition on and the driver's door closed; all doors will lock automatically.
- The automatic door unlock feature is turned off.

Mode 3: Automatic Door Locking with shift out of PARK (P)/Driver's Door Unlocking with shift into PARK (P)

- Shift out of PARK (P) with the ignition on and the driver's door closed; all doors will lock automatically.
- Shift into PARK (P) with the ignition on; driver's door only will unlock automatically.

Mode 4: Automatic Door Locking with shift out of PARK (P)/All Door Unlocking with shift into PARK (P)

- Shift out of PARK (P) with the ignition on and the driver's door closed; all doors will lock automatically.
- Shift into PARK (P) with the ignition on; all doors will unlock automatically.

Mode 5: Automatic Door Locking with shift out of PARK (P)/Driver's Door Unlocking with Key Removal

- Shift out of PARK (P) with the ignition on and the driver's door closed; all doors will lock automatically.
- Remove the key; only the driver's door will unlock automatically.

Mode 6: Automatic Door Locking with shift out of PARK (P)/All Door Unlocking with Key Removal

- Shift out of PARK (P) with the ignition on and the driver's door closed; all doors will lock automatically.
- Remove the ignition key; all doors will unlock automatically.

Before your vehicle was shipped from the factory, it was programmed in Mode 4. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the top of the power door lock switch.
3. Count the number of chimes you hear. The number of chimes indicates the vehicle’s current programmed mode. If you do not wish to change the current mode, you can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.
4. Press the top of the power door lock switch to change the current mode.
5. Press the top of the power door lock switch until you hear the number of chimes corresponding to the mode selection you want.

The mode you selected is now set. You can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Delayed Locking

This feature allows you to lock and unlock the doors automatically.

Programmable Modes

Mode 1: Off (Doors will always lock immediately when you lock the doors using the power door lock switch or the optional remote keyless entry transmitter.)

Mode 2: Delayed Locking (If the power door lock switch or the optional remote keyless entry transmitter is used to lock the vehicle while any door is open, you will hear three chimes. The doors will not lock. Five seconds after the last door is closed, all doors will lock. If you press the lock button twice, the doors will lock immediately.)

Before your vehicle was shipped from the factory, it was programmed in Mode 2. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the bottom of the power door lock switch.

3. Count the number of chimes you hear. The number of chimes indicates the vehicle's current programmed mode. If you do not wish to change the current mode, you can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.
4. Press the bottom of the power door lock switch to change the current mode.
5. Press the bottom of the power door lock switch until you hear the number of chimes corresponding to the mode selection you want.

The mode you selected is now set. You can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Remote Driver's Door Unlock

This feature allows you to customize the UNLOCK button on the remote keyless entry transmitter.

Programmable Modes

Your vehicle can be programmed to one of the following modes.

Mode 1: Remote All Doors Unlock (When you press UNLOCK on your remote keyless entry transmitter, all doors will unlock.)

Mode 2: Remote Driver's Door Unlock Only (When you press UNLOCK on your remote keyless entry transmitter once, the driver's door will unlock. When you press UNLOCK on your remote keyless entry transmitter again within five seconds, all doors will unlock.)

Before your vehicle was shipped from the factory, it was programmed in Mode 2. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press UNLOCK on the remote keyless entry transmitter.
3. Count the number of chimes you hear. The number of chimes indicates the vehicle’s current programmed mode. If you do not wish to change the current mode, you can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.
4. Press UNLOCK on the remote keyless entry transmitter to change the current mode.
5. Press UNLOCK on the remote keyless entry transmitter until you hear the number of chimes corresponding to the mode selection you want.

The mode you selected is now set. You can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Remote Lock and Unlock Confirmation

This feature allows you to customize the feedback received when locking or unlocking your vehicle with the remote keyless entry transmitter.

Programmable Modes

Mode 1: Both Features Off (Remote lock and unlock confirmation are disabled.)

Mode 2: Exterior Lamps Flash Only

- When you use the remote keyless entry transmitter to lock your vehicle, your headlamps and parking lamps will flash briefly to let you know the command has been received.
- When you use the remote keyless entry transmitter to unlock your vehicle, your headlamps and parking lamps will flash briefly during the day or the perimeter lighting will flash briefly at night to let you know the command has been received.

Mode 3: Exterior Lamps Flash and Horn Sound

- When you use the remote keyless entry transmitter to lock your vehicle, your headlamps and parking lamps will flash briefly on each press and your horn will sound briefly on the second or any other press to let you know the command has been received.
- When you use the remote keyless entry transmitter to unlock your vehicle, your headlamps and parking lamps will flash briefly during the day or the perimeter lighting will flash briefly at night to let you know the command has been received.

Before your vehicle was shipped from the factory, it was programmed in Mode 3. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the LOCK button on the remote keyless entry transmitter.
3. Count the number of chimes you hear. The number of chimes indicates the vehicle’s current programmed mode. If you do not wish to change the current mode,

you can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.

4. Press LOCK on the remote keyless entry transmitter to change the current mode.
5. Press LOCK on the remote keyless entry transmitter until you hear the number of chimes corresponding to the mode selection you want.

The mode you selected is now set. You can either exit the programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Exiting Programming Mode

To exit programming mode, do one of the following:

- Press the odometer button, while in odometer mode, for two seconds, or
- turn the ignition key out of ON, or
- do not program any commands for one minute while in programming mode, or
- shift out of PARK (P). See “Shifting Out of PARK (P)” in the Index.

The programming mode message will turn off to let you know that you are no longer in programming mode.

Liftgate/Tailgate

CAUTION:

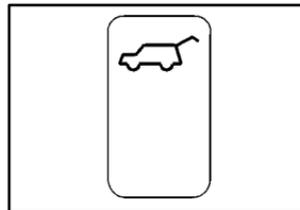
It can be dangerous to drive with the liftgate/tailgate open because carbon monoxide (CO) gas can come into your vehicle. You can't see or smell CO. It can cause unconsciousness and even death.

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

- Make sure all other windows are shut.
- Turn the fan on your heating or cooling system to its highest speed with the setting on bi-level (outside air button is pressed). 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.

Liftgate/Tailgate Release

To open the liftgate, do one of the following:



- Press the liftgate release button, located on the instrument panel switchbank, or

- from the outside, insert the key into the lock and turn it clockwise, or
- press REAR on the optional remote keyless entry transmitter.

Your vehicle must be in PARK (P) or NEUTRAL (N) for the liftgate to release.

The liftgate will lock when closed. You will have to use one of the previous options to open the liftgate again.

The liftgate must be opened to release the tailgate.



Once the liftgate is opened, reach inside the tailgate to lift the handle. Open the tailgate.

Make sure the tailgate is closed before closing the liftgate.

NOTICE:

Damage or breakage will occur to the liftgate if the tailgate is not closed before closing the liftgate.

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. Also 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.

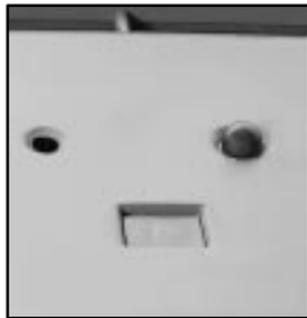
Parking Lots

Even if you park in a lot where someone will be watching your vehicle, it's still best to lock it up and take your key. But what if you have to leave your key? What if you have to leave something valuable in your vehicle?

- Put your valuables in a storage area, like your glove box.
- If your vehicle has a remote keyless entry system, take the transmitter with you.
- Lock all the doors except the driver's.

Content Theft-Deterrent (Option)

If your vehicle has this option, it has a theft-deterrent alarm system.



A light located on top of the instrument panel (near the center of the vehicle, next to the windshield) will flash slowly to let you know that the system has been armed.

While armed, the doors will not unlock with the power door lock switch.

Once armed, the alarm will go off if someone tries to open one of the doors on the vehicle without the remote keyless entry transmitter or the key, or tries to turn the ignition without using the correct key. The horn will sound and the headlamps and parking lamps will flash anytime the alarm sounds.

If you would like to change the way the headlamps, parking lamps and horn operate with the content theft-deterrent system, see “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Driver Information Center” in the Index.

When the content theft-deterrent system is armed, the liftgate/tailgate may be opened by using one of the following methods:

- From the outside, insert the key into the lock and turn it clockwise, or
- press REAR on the optional remote keyless entry transmitter.

When the content theft-deterrent system is armed, pressing the liftgate release button, located on the instrument panel switchbank, will cause the alarm to sound.

Arming with the Power Lock Switch

Your alarm system will arm when you use either power door lock switch to lock the doors while any door or the liftgate/tailgate is open and the key is removed from the ignition. The security light will start flashing to let you know the system is armed.

Arming with the Remote Keyless Entry Transmitter

Your alarm system will arm when you press LOCK on your remote keyless entry transmitter to lock the doors. The security light will start flashing to let you know the system is armed.

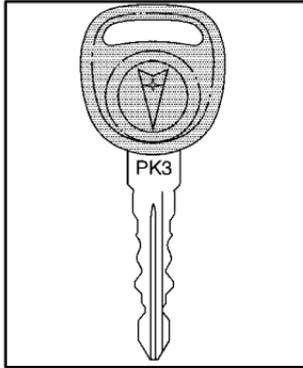
Disarming with the Remote Keyless Entry Transmitter

Your alarm system will disarm when you press UNLOCK on your remote keyless entry transmitter to unlock the doors. The security light will stop flashing to let you know the system is no longer armed.

Disarming with Your Key

Your alarm system will disarm when you use your key to unlock the front doors. The security light will stop flashing to let you know the system is no longer armed.

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 message comes on, the key may have a damaged transponder. Turn the ignition off and try again.

If the engine still 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 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 10 total 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 who can service PASS-Key III to get a new key blank that is a cut exactly as the ignition key that operates the system.

Canadian Owners: If you lose or damage your keys, only a GM dealer can service PASS-Key III to have new keys made. To program additional keys you will need two current driver’s keys (black in color). You must add a step to the following procedure. After Step 3 repeat Steps 1 through 3 with the second current driver’s key. Then continue with Step 4.

To program the new PK3 key do the following:

1. Verify the new key has “PK3” stamped on it.
2. Insert the current driver’s key in the ignition and start the engine. If the engine will not start, see your dealer for service.
3. After the engine has started, turn the key to OFF, and remove the key.
4. Insert the key to be programmed and turn it to ON within 10 seconds of removing the previous key.

5. The SECURITY message will turn off once the key has been programmed. It may not be apparent that the SECURITY message went on due to how quickly the key is programmed.
6. Repeat Steps 1 through 4 if additional keys are to be programmed.

If you are ever driving and the SECURITY message comes on and stays on, you will be able to restart 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 who can service PASS-Key III to have a new key made.

New Vehicle “Break-In”

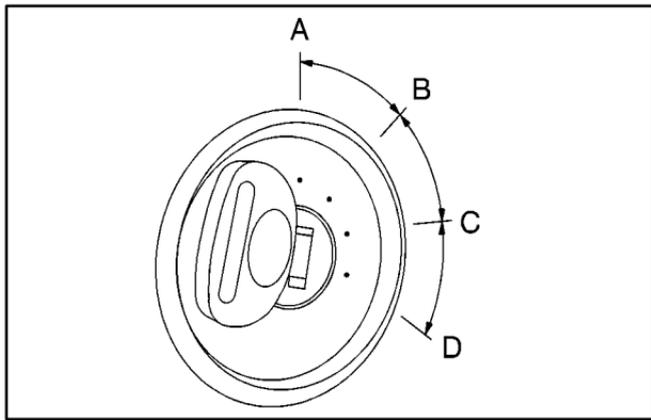
NOTICE:

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

- **If you have all-wheel drive, keep your speed at 55 mph (88 km/h) or less for the first 500 miles (805 km).**
- **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

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



A (OFF): This is the only position from which you can remove the key. This position locks the steering wheel, ignition and transaxle.

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? 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.

B (ACCESSORY): 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. 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).

C (ON): This is the position that the switch returns to after you start your engine and release the key. The switch stays in ON when the engine is running. But even when the engine is not running, you can use ON to operate your electrical accessories, and to display some instrument panel warning lights.

D (START): This position starts the engine. When the engine starts, release the key. The ignition switch will return to ON for normal driving.

If the engine is not running, ACCESSORY and ON are positions that allow you to operate your electrical accessories, such as the radio.

Retained Accessory Power (RAP)

With RAP, the power windows, the audio system, the optional sunroof and the optional Electronic Level Control (ELC) will continue to work for up to 10 minutes after the ignition key is turned to OFF and none of the doors are opened.

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.

1. With your foot off 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 warms up.

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 the engine doesn't start in 10 seconds, push the accelerator pedal about one-quarter of the way down while you turn the key to START. Do this until the engine starts. As soon as it does, let go of the key.

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 a maximum of 15 seconds. This clears the extra gasoline from the engine. If the engine still won't start or starts briefly but then stops again, repeat Step 1 or 2, depending on temperature. When the engine starts, release the key and the accelerator pedal.

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.

Engine Coolant Heater (If Equipped)

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. At temperatures above 32°F (0°C), use of the coolant heater is not required.

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

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.

Automatic Transaxle Operation

P
R
N
D
3
2
1

Maximum engine speed is limited when you're in PARK (P) or NEUTRAL (N), to protect driveline components from improper operation.

There are several different positions for your shift lever.

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

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. As you step on the brake pedal, while in PARK (P), you may hear a click from the solenoid in the system. This ensures that the system is operating properly.

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 hold the button on the lever and move the shift lever into the gear you wish. See "Shifting Out of PARK (P)" in this section for more information.

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.

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 is stopped.

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.

NEUTRAL (N): In this position, your 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.

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

You'll shift down to the next gear and have more power.

NOTICE:

If your vehicle seems to start up rather slowly, or if it seems not to shift gears as you go faster, 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 AUTOMATIC OVERDRIVE (D) for higher speeds.

Warm-Up Shift

Your vehicle has a computer controlled transaxle designed to warm up the engine faster when the outside temperature is 35°F (2°C) or colder. You may notice that the transaxle will shift at a higher vehicle speed until the engine is warmed up. This is a normal condition designed to provide heat to the passenger compartment and defrost the windows more quickly.

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

Here are some times you might choose THIRD (3) instead of AUTOMATIC OVERDRIVE (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, but lower fuel economy. 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 drive in SECOND (2) for more than 25 miles (40 km), or at speeds over 55 mph (90 km/h), or you can damage your transaxle. Use THIRD (3) or AUTOMATIC OVERDRIVE (D) as much as possible. Don't shift into SECOND (2) unless you are going slower than 65 mph (105 km/h) or you can damage your engine.

NOTICE:

If your vehicle seems to start up rather slowly, or if it seems not to shift gears as you go faster, 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 THIRD (3) for higher speeds.

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

NOTICE:

If your front wheels won't turn, 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 overheat and damage the transaxle. Use your brakes or shift into PARK (P) to hold your vehicle in position on a hill.

Shift Lock Release

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

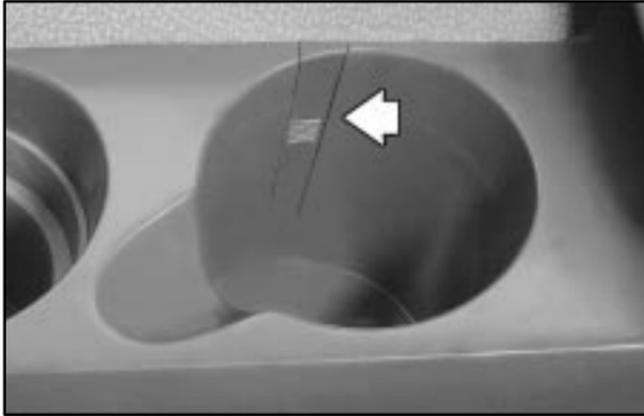
- Prevent ignition key removal unless the shift lever is in PARK (P) (with the shift lever button fully released), and
- prevent movement of the shift lever out of PARK (P) unless the ignition is in a position other than OFF.

The shift lock release is always functional except in the case of a discharged or low voltage (less than 9V) battery.

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

To access the shift lock release lever:

1. Remove the front cupholder liner.



2. Locate the access panel on the left side of the cupholder storage compartment.
3. Remove the override access slot by pressing down on the bottom of the panel and lifting up.



4. Press the shift lock release lever in with the access panel cover.
5. Move the shift lever out of PARK (P).
6. Put the access panel cover back on by aligning the access panel grooves with the cupholder storage compartment and press down.
7. Replace the cupholder liner.

Parking Brake



To set the parking brake, hold the regular brake pedal down with your right foot and push down on the parking brake pedal with your left foot.

If the ignition is on, the brake system warning light will come on. See “Brake System Warning Light” in the Index.

To release the parking brake, hold the regular brake pedal down with your right foot while you push down on the parking brake pedal with your left foot. (To release the tension on the parking brake cable, you will need to apply about the same amount of pressure to the parking brake pedal as you did when you set the parking brake.) When you remove your foot from the parking brake pedal, it will pop up to the released position.

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 any hill, see “Towing a Trailer” in the Index. That section will tell you what to do first to keep the trailer from moving.

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.

1. Hold the brake pedal down with your right foot and set the parking brake with your left foot.
2. Move the shift lever into PARK (P) like this:
 - Hold in the button on the lever.
 - Press the lever all the way toward the front of the vehicle.
3. Turn the ignition key to OFF.
4. Remove the key and take it with you. If you can leave your vehicle with the key, 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.

When you are ready to drive, move the shift lever out of PARK (P) *before* you release the parking brake.

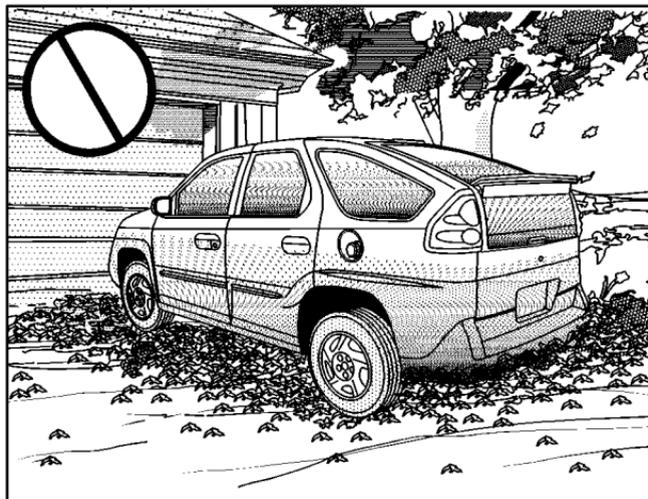
If torque lock does occur, you may need to have another vehicle push yours a little uphill to take some of the pressure from the parking pawl in the transaxle, so you can pull the shift lever out of PARK (P).

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 Operation” in the Index.

If you cannot shift out of PARK (P), ease pressure on the shift lever by pushing the shift lever all the way into PARK (P) as you maintain brake application. Then hold the button on the lever and move the shift lever out of PARK (P). If you ever hold the brake pedal down but still can't shift out of PARK (P), see “Shift Lock Release” in the Index.

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 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 and 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're pulling a trailer, see "Towing a Trailer" in the Index.

Horn

You can sound the horn by pressing the horn symbols on your steering wheel.

Tilt Wheel

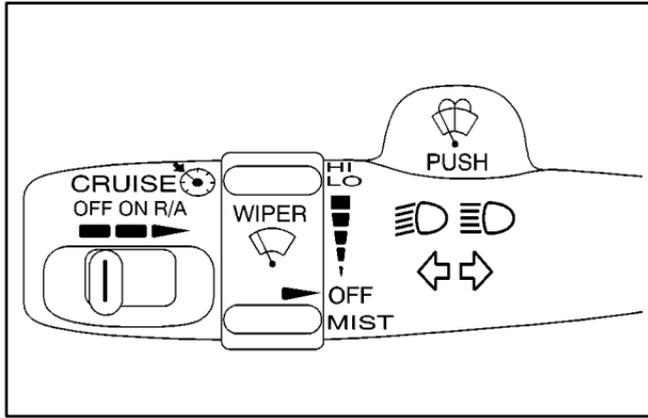
A tilt wheel allows you to adjust the steering wheel before you drive. You can raise it to the highest level to give your legs more room when you exit and enter the vehicle.



The lever that allows you to tilt the steering wheel is located on the left side of the steering column.

To tilt the wheel, hold the wheel and pull the lever. Then move the wheel to a comfortable position and release the lever to lock the wheel in place.

Turn Signal/Multifunction Lever



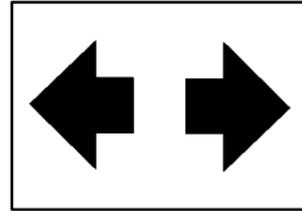
The lever on the left side of the steering column includes the following:

- Turn and Lane-Change Signals
- Headlamp High/Low-Beam Changer
- Flash-to-Pass Feature
- Windshield Wiper
- Windshield Washer
- Cruise Control (Option)

Turn and Lane-Change Signals

The turn signal has two upward (for right) and two downward (for left) positions. These positions allow you to signal a turn or a lane change.

To signal a turn, move the lever all the way up or down. When the turn is finished, the lever will return automatically.



An arrow on the instrument panel cluster and the optional HUD display will flash in the direction of the turn or lane change.

To signal a lane change, just raise or lower the lever until the arrow starts to flash. Hold it there until you complete your lane change. The lever will return by itself when you release it.

As you signal a turn or a lane change, if the arrow flashes faster than normal, a signal bulb may be burned out and other drivers won't see your turn signal.

If a bulb is burned out, replace it to help avoid an accident. If the arrows don't go on at all when you signal a turn, check for burned-out bulbs and check the fuse. See "Fuses and Circuit Breakers" in the Index.

If you have a trailer towing option with added wiring for the trailer lamps, the signal indicator will flash at a normal rate even if a turn signal bulb is burned out. Check the front and rear turn signal lamps regularly to make sure they are working.

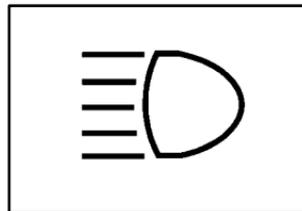
Turn Signal On Chime

If either turn signal is left on for more than 3/4 mile (1.2 km), a chime will sound to let the driver know to turn it off.

If you need to leave the signal on for more than 3/4 mile (1.2 km), turn off the signal and then turn it back on.

Headlamp High/Low-Beam Changer

To change the headlamps from low to high, simply press the turn signal lever away from you. Then release it. To change the headlamps from high to low, pull the lever toward you.



When the high beams are on, this light, on the instrument panel cluster and the optional HUD display, will also be on.

Flash-to-Pass Feature

When the headlamps are off, pull the lever toward you to momentarily switch on the high beams (to signal that you are going to pass). When you release the lever, they will turn off.

Windshield Wipers

To operate the windshield wipers turn the band marked WIPER, located on the multifunction lever, upward or downward.

MIST: Turn the band to MIST for a single wiping cycle. Hold it there until the wipers start. Then let go. The wipers will stop after one wipe. If you want more wipes, hold the band on mist longer.

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

LOW: Turn the band to LOW, for steady wiping at low speed.

HIGH: Turn the band to HIGH, for steady wiping at high speed.

DELAY: Turn the band away from you to one of the five sensitivity settings between OFF and LOW, to choose the delayed wiping cycle. The further the band is turned toward LOW, the shorter the delay will be. Use this setting for light rain or snow.

Remember that damaged wiper blades may prevent you from seeing well enough to drive safely. To avoid damage, 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 your blades do become damaged, get new blades or blade inserts.

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

Windshield Washer

To wash your windshield, press and hold the windshield washer paddle. The washers and wipers will operate. When you release the paddle, the washers will stop, and the wipers will continue to operate for two cycles, unless your wipers had already been on. In that case, the wipers will resume the wiper speed you had selected earlier.



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.

Cruise Control (Option)

With cruise control, you can maintain a speed of about 25 mph (40 km/h) or more without keeping your foot on the accelerator. This can really help 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 disengages.

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 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. Move the cruise control switch to ON.
2. Get up to the speed you want.
3. Press in the SET button at the end of the lever and release it.
4. Take your foot off 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 you're going about 25 mph (40 km/h) or more, you can move the cruise control switch from ON to R/A (Resume/Accelerate) briefly.

You'll go right back up to your chosen speed and stay there.

If you hold the switch at R/A, the vehicle will keep going faster until you release the switch or apply the brake. So unless you want to go faster, don't hold the switch at R/A.

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 button at the end of the lever, then release the button and the accelerator pedal. You'll now cruise at the higher speed.
- Move the cruise switch from ON to R/A. Hold it there until you get up to the speed you want, and then release the switch. (To increase your speed in very small amounts, move the switch to R/A briefly and then release it. Each time you do this, your vehicle will go about 1 mph (1.6 km/h) faster.)

The accelerate feature will work whether or not you have set an initial cruise control speed.

Reducing Speed While Using Cruise Control

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

- Press in the SET button at the end of the lever until you reach the lower speed you want, then release it.
- To slow down in very small amounts, press the SET button briefly. Each time you do this, you'll go about 1 mph (1.6 km/h) slower.

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. Of course, applying the brake takes you out of cruise control. Many drivers find this to be too much trouble and don't use cruise control on steep hills.

Ending Cruise Control

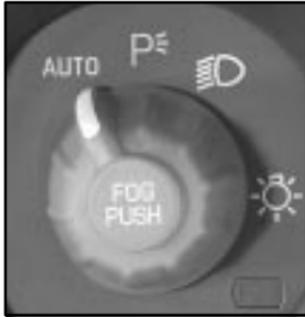
There are two ways to turn off the cruise control:

- Step lightly on the brake pedal, or
- move the cruise switch to OFF.

Erasing Cruise Speed Memory

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

Exterior Lamps



The control located to the left of the steering column operates the exterior lamps.

AUTO (Automatic) : Turning the control to this position will activate the automatic headlamps when it is dark enough outside. If it is not dark enough outside, it will turn off all the lamps and lights except the Daytime Running Lamps (DRL).

P (Parking Lamps): Turning the control to this position turns on the parking lamps together with the following:

- Sidemarker Lamps
- Taillamps
- Instrument Panel Lights

Headlamps: Turning the control to this position turns on the headlamps, together with the previously listed lamps and lights.

Automatic Headlamp Control

When the exterior lamps control is turned to AUTO, the headlamps and parking lamps will come on automatically when it is dark enough outside.

The lamps will come on automatically if the following conditions are met:

- It is dark enough outside,
- the ignition is in ON,
- the parking brake is released, and
- the exterior lamps control is in AUTO.

Lamps on Reminder

If the driver's door is opened and you turn the ignition to OFF while leaving the lamps on, you will hear a warning chime.

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. Fully functional daytime running lamps are required on all vehicles first sold in Canada.

A light sensor on top of the instrument panel makes the DRL work, so be sure it isn't covered. The DRL system will make your reduced intensity high-beam headlamps come on in daylight when the following conditions are met:

- The ignition is on,
- the exterior lamps control is in AUTO, and
- the shift lever is not in PARK (P).

When the DRL are on, only your reduced intensity high-beam headlamps will be on. The taillamps, sidemarkers and other lamps will not be on. Your instrument panel won't be lit up.

When it's dark enough outside, the exterior lamps will come on automatically. When it's bright enough outside, the exterior lamps will go out and the DRL will turn on.

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

Fog Lamps



The fog lamp button is located in the center of the exterior lamps control.

The fog lamps are activated by pushing on the fog lamp button. The indicator light for the fog lamp is to the right and slightly below the exterior lamps control and reads FOG. To turn off the fog lamps push the fog lamp button or turn the ignition off. The indicator light will turn off.

If you turn on the fog lamps while the DRL are on, the parking lamps will turn on automatically.

Your fog lamps will go off when you switch to high beams. When you return to low beam, the fog lamps will come back on. Using your high beams in fog is not recommended.

Interior Lamps



Your interior lamps control is located below the exterior lamps control.

Interior Lamps Control

Turn the interior lamps control to one of the following positions:

OFF: Use OFF to turn the interior lamps off.

DOOR: Use DOOR to turn on the interior lamps when any door is opened and when the ignition key is removed from the ignition.

ON: Use ON to turn the interior lamps on.

Instrument Panel Brightness Control

This feature controls the brightness of the instrument panel lights.

The knob for this feature is located in the center of the interior lamps control.

Press the knob and it will extend. Turn the knob clockwise to brighten the lights or counterclockwise to dim them. Press the knob in when not in use.

Illuminated Entry

With illuminated entry, the interior of your vehicle will illuminate for 25 seconds so you can see inside your vehicle before you enter. To activate illuminated entry, do the following:

- Unlock a door using the key when the interior lamps control is in DOOR, and when the ignition is in OFF, or
- press UNLOCK on the optional remote keyless entry transmitter when the interior lamps control is in DOOR, and when the ignition is in OFF.

After 25 seconds, the interior lamps will slowly fade out.

The lamps will turn off before 25 seconds if you do one of the following:

- Lock all the doors using the key.
- Press LOCK on the optional remote keyless entry transmitter.
- Press the power door lock switch forward.
- Turn the ignition to ON.

When any door is opened, illuminated entry is cancelled. The interior lamps will stay on while any door or the liftgate is open, and slowly fade out when all doors and the liftgate are closed.

Delayed Lighting

The delayed lighting feature will continue to illuminate the interior for 25 seconds after all doors have been closed so that you can find the ignition and buckle your safety belt when it is too dark. The lamps will continue to illuminate when the following conditions are met:

- When a door is opened then closed,
- when the interior lamps control is in DOOR, and
- when the ignition is in OFF.

After 25 seconds, the interior lamps will slowly fade out.

The lamps will fade out before the 25 seconds have passed if the following conditions are met:

- The ignition is turned to ON,
- LOCK is pressed on the optional remote keyless entry transmitter, or
- the power door lock switch is pressed forward.

If your vehicle is equipped with the Driver Information Center (DIC), you can program this feature on or off. See “Driver Information Center” in the Index.

Exit Lighting

With exit lighting, the interior lamps will come on for about 30 seconds whenever you remove the key from the ignition if the following conditions are met:

- The vehicle is in PARK (P),
- the ignition key is out of the ignition,
- the interior lamps control is in DOOR, and
- all of the doors are closed.

After 30 seconds, the interior lamps will slowly fade out.

The interior lamps will slowly fade out before 30 seconds have passed, if the following conditions are met:

- The ignition is turned to ON,
- LOCK is pressed on the optional remote keyless entry transmitter, or
- the power door lock switch is pressed forward.

If your vehicle is equipped with the Driver Information Center (DIC), you can program this feature on or off. See “Driver Information Center” in the Index.

Perimeter Lighting

The perimeter lighting feature will turn on the headlamps and parking lamps for 25 seconds when the following conditions are met:

- The ignition is turned to OFF,
- the exterior lamps control is in AUTO,
- UNLOCK is pressed on the remote keyless entry transmitter, and
- it is dark enough outside.

After 25 seconds, the headlamps and parking lamps will turn off.

The lamps will turn off before the 25 seconds have passed if the following conditions are met:

- The ignition is turned to ON, or
- the exterior lamps control is turned out of AUTO.

To program the perimeter lighting feature, see “Remote Lock and Unlock Confirmation” under “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Remote Lock Feedback” under “Driver Information Center” in the Index.

Headlamp Exit Delay

The headlamp exit delay feature will turn on the headlamps and parking lamps at night for 30 seconds if the following conditions are met:

- The ignition is turned to OFF,
- the exterior lamps control is in AUTO,
- it is dark enough outside.

After 30 seconds, the headlamps and parking lamps will turn off.

The lamps will turn off before the 30 seconds have passed if the following conditions are met:

- The ignition is turned to ON, or
- the exterior lamps control is turned out of AUTO.

To program the headlamp exit delay feature, see “Vehicle Customization” in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see “Driver Information Center” in the Index.

Front Reading Lamps

There are two reading lamps located on the rearview mirror.

To turn either reading lamp on or off, press the button located next to each lamp.

These lamps will come on each time you open the doors, if the interior lamps control is in ON or DOOR.

Rear Reading Lamps

There are two reading lamps with coat hooks in the second row headliner, above the rear doors.

To turn either reading lamp on or off, press the lens of the lamp.

Cargo Lamp

The cargo lamp is located in the rear of the vehicle, above the liftgate/tailgate opening, and it does not have an on/off switch. The lamp will go on each time you open the doors, if the interior lamps control is in DOOR.

Battery Saver

Your vehicle has a feature to help prevent you from draining the battery, in case you accidentally leave the interior or exterior lamps on. If you leave any interior or exterior lamps on while the ignition is in OFF, they will automatically turn off after 10 minutes.

If your vehicle has less than 14 miles (24 km) on the odometer, the battery saver will turn off the lamps after only three minutes.

Mirrors

Inside Day/Night Rearview Mirror

To reduce glare from lights behind you, pull the lever toward you (to the night position). To return the mirror to the day position, press the lever away from you.

Power Outside Rearview Mirrors



The power outside rearview mirror knob is located on the driver's door.

Turn the knob counterclockwise to adjust the driver's side mirror. Turn the knob clockwise to adjust the passenger's side mirror. After selecting which mirror to adjust, move the knob in the direction you want the mirror to go.

If you are not adjusting either mirror, leave the control in the center (off) position. This prevents moving the mirrors accidentally once you have adjusted them.

Adjust each mirror so you can see the side of your vehicle and the area behind your vehicle.

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

There are four small storage compartments in the rear of your vehicle. One is on the passenger's side, two are on the driver's side and one is on the floor by the tailgate. To remove the covers, lift up on the tabs. If equipped with the 10-speaker system, the compartment on the passenger's side and the long compartment on the driver's side will be equipped with speakers.

Glove Box

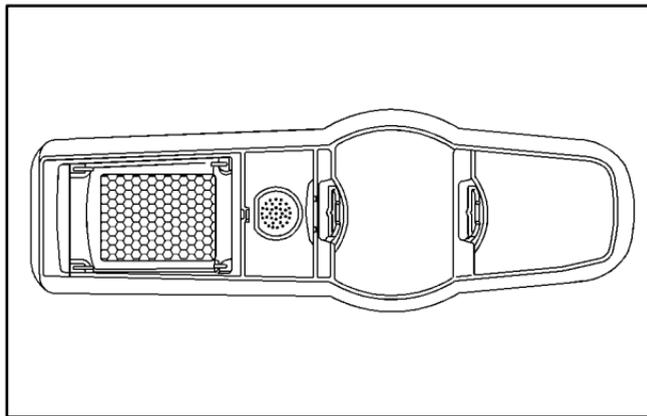
Your vehicle has a glove box located below the instrument panel.

To unlock the glove box, put your key into the lock and turn the key counterclockwise. To open the glovebox, lift the latch release.

The glove box door has a detent to prevent the door from lowering too far. Open the glove box until the door is partway open, then pull the door down if you need it fully opened.

To close the glove box, the door must be pressed up past the detent. To lock the glovebox, put your key into the lock and turn the key clockwise.

Overhead Consoles (If Equipped)



If your vehicle has the overhead console it has a storage compartment, a compartment for your garage door opener and a compartment for your sunglasses.

If your vehicle has the optional rear seat audio, a longer console with a storage net is included. See “Rear Seat Audio” in the Index for more information.

If your vehicle has the optional OnStar[®] System, the OnStar buttons will be located at the front of the console and will replace the storage compartment. See “OnStar[®] System” in the Index for more information.

Garage Door Opener Compartment



You can store and operate your garage door opener in the third compartment of your overhead console. To install your garage door opener, follow these instructions:

1. Open the compartment by pressing the latch forward.
2. Remove the garage door opener button, by pressing the tabs and pulling it down.
3. Remove the piece of self-sticking Velcro[®] from the top of the garage door opener compartment.

4. Peel the protective backing from the Velcro and press it firmly to the back of your garage door opener.
5. Line up the button on the garage door opener with the opening in the storage compartment door. Make sure the garage door opener button is facing down and then press the opener firmly into the garage door opener compartment.
6. Once the opener is installed, remove the three pegs from the garage door opener button. Each peg is a different size.
7. Put the garage door opener button back in by inserting the tabs into the slot in the garage door opener compartment and test the peg.
8. Repeat this procedure until the correct peg length is pressing the garage door opener button with the compartment door closed.

Storage Compartment (If Equipped)

To open the storage compartment, located at the front of the overhead console, press the release latch forward. Then pull the compartment down to the full open position.

Sunglass Storage Compartment

To open the sunglasses storage compartment in the overhead console, press the release button. Then pull the compartment down to the full open position.

Cupholders

There are cupholders located in the center console next to the shift lever.

The cupholders have liners that remove for larger beverage items. Remove the liners by lifting them out. Store the liners in the glove box when not in use.

Your vehicle also has cupholders located in the rear passenger doors and the tailgate.

Front Door Utility Packs (Option)

The optional front door utility packs provide extra storage space. The utility packs are located in the front door pockets of your vehicle.

Rear Convenience Net

The rear convenience net is designed to help keep small loads, like grocery bags, from falling over during sharp turns or quick stops and starts. Install the convenience net at the rear of your vehicle, just inside the liftgate/tailgate.



Attach both the upper and lower hooks to the loops on either side of the liftgate/tailgate opening (the label on the net should be in the upper left corner). Attach the middle hooks to the metal rings on the floor.



The side of the convenience net closest to the front of the vehicle is higher than the side closest to the liftgate/tailgate. Once you've loaded items into the net, stretch the higher side of the net up and over the top of the load to hold it firmly in place.

The convenience net has a maximum capacity of 100 lbs. (45 kg). It is not designed to hold larger, heavier loads. Store such loads on the floor of your vehicle, as far forward as you can.

When not in use, it is recommended that you take down the rear convenience net to extend its life and retain its elasticity, and to keep the rear exit clear. Store the net in the pouch behind either front seat, in the optional front door utility packs, or in one of the optional side convenience nets.

Cargo Net System (Option)

The optional cargo net system is designed to help keep larger loads from falling over during sharp turns or quick stops and starts.

The cargo net system consists of two side convenience nets and one front convenience net that accompanies the standard rear convenience net.

The front and rear convenience nets have labels for proper placement when installing. Attach the upper and lower hooks on either side of the rear of the vehicle (the label on the front and rear nets should be in the upper left corner and the labels should face rearward).

The two side nets can go on either side of the vehicle. Do the following to install the nets:

- The upper hooks on the side convenience nets connect to the top loops on the sidewall trim. The lower hooks on the side convenience nets attach to the lower hooks on the sidewall trim.
- The upper hooks on the side convenience nets connect to the top of the front and rear convenience nets. The lower hooks on the side convenience nets connect to the floor retainers on the floor of the rear of the vehicle.

The cargo net system has a maximum capacity of 100 lbs. (45 kg) for the front and rear nets and 35 lbs. (20 kg) for the side nets. It is not designed to hold larger, heavier loads. Store such loads on the floor of your vehicle, as far forward as you can.

When not in use, it is recommended that you then take down the convenience nets to extend life and retain their elasticity, and to keep the rear exit clear. Store the net in the pouch behind either front seat, in one of the utility packs or in one of the side convenience nets.

Console/Cooler



CAUTION:

If the cooler storage compartment isn't secured properly, it can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to secure the cooler storage compartment properly.



With this feature, your vehicle has a fully insulated food/beverage console/cooler located between the driver's and front passenger's seats.

To properly secure the console/cooler, the handle must be latched down, toward the driver's seat, as indicated on the cooler handle.

To open the console/cooler, have the handle fully down toward the passenger's seat. Then lift the lid up. The passenger's seat armrest must be up to be able to open the lid completely.

The console/cooler contains a top tray for storage. Remove the top tray to put items in the cooler. Put the top tray back into the cooler if there is room. The cooler also contains a rubber mat that can hold compact discs, cassette tapes, and it has a coinholder. You can also remove the rubber mat.

Once items are removed or added, properly secure the console/cooler, as described earlier.

To remove the console/cooler from the vehicle, lift the handle from the driver's side to a fully upright position, and remove it. To replace the console/cooler, place it in its storage area and press the handle down to the driver's side until you hear a click. Move the console/cooler side-to-side to make sure it is locked in place.

NOTICE:

Your warranty does not cover parts or components that fail because of overloading.

Cargo Cover

CAUTION:

An improperly stored cargo cover could be thrown about the vehicle during a collision or sudden maneuver. You or others could be injured. If you remove the cover, always store it properly. When you put it back, always be sure that it is securely reattached.

Sliding Rear Convenience/Cargo Tray (Option)

CAUTION:

If the sliding rear convenience/cargo tray isn't secured properly, it can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to secure the sliding rear convenience/cargo tray properly.

The main purpose of the optional sliding rear convenience/cargo tray is to provide added convenience when using the rear of your vehicle by making it easier to load, organize and remove items from your vehicle. The tray can be pulled out onto the tailgate for easier loading or unloading and then rolled back into the vehicle.

1. Press the release lever located in front of the handle of the tray to release the pin from the floor track assembly.

2. Pull the tray toward you without lifting it up. You will hear a click when the tray is locked into the extended position.
3. Press the release lever again to roll the tray back into the vehicle. You will hear a click when the tray is locked into position.

The sliding rear convenience/cargo tray can provide more storage in the rear of the vehicle. There are two separate storage compartments contained in it, one on the driver's side and one on the passenger's side.

The driver's side storage compartment provides a hidden storage area for miscellaneous items. To open the driver's side storage compartment, pull up on the top of the cover. The cover opens to the right and lies completely flat on top of the passenger's side storage compartment, if the passenger's side storage compartment cover is closed. The passenger's side storage compartment cover is not designed to support the driver's side storage compartment cover in an upright position. Do not drive with the driver's side storage compartment open.

The passenger's side storage compartment has three compartments with integrated divider nets. To open the cover(s), pull up on each. The left cover opens to the left and the right cover opens to the right.

There are also two openings in the divider between the two storage compartments to accommodate longer items.

NOTICE:

Your warranty does not cover parts or components that fail because of overloading.

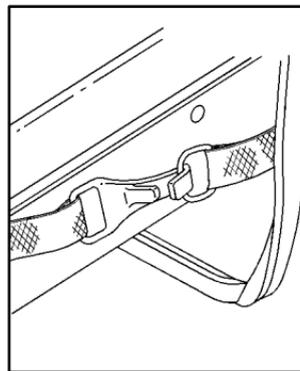
The sliding rear convenience/cargo tray has a maximum weight capacity of 400 lbs. (181.6 kg) on top.

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.

Removing the Sliding Rear Convenience/Cargo Tray

1. Make sure that all items have been removed from the top and the inside of the sliding rear convenience/cargo tray.

2. Press down on the release lever and pull the tray fully rearward onto the tailgate until you hear a click.



3. Disconnect the tethered ring from the hook and place the tethered ring on the outer edge of the tailgate on each side of the vehicle.

4. Press down on the release lever and roll the tray into the vehicle approximately 6 inches (15.24 cm).
5. Use the handle to lift up on the tray while pulling it towards you. Use your other hand to support and lift the tray from the bottom. Remove the tray from the vehicle at about a 45 degree angle.

The rear of the tray has rollers for moving it on the ground, in an upright position, without having to carry it.

Removing the Floor Track Assembly

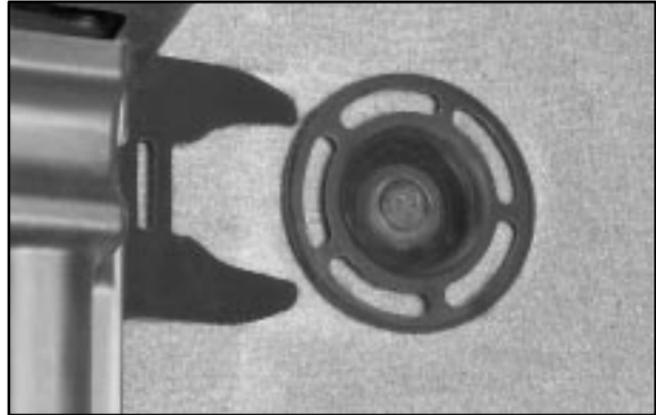
After the tray is removed, the floor track assembly also needs to be removed. Items should not be put onto the floor track assembly.



1. Feed the tethered ring through the rear lower sidewall loop on each side of the vehicle.
2. Unlock the slide locks from the two rear floor retainers by pushing the button down and pressing them inward.
3. Disengage the front forks from the retainers by lifting and pulling the assembly toward you.

Replacing the Floor Track Assembly

Before beginning this procedure make sure that nothing is in the rear of the vehicle.



1. Slide the floor track assembly in while aligning the front forks, located on the bottom front of the track assembly, so that the forks slide under the two front floor retainers.

2. Insert the slide locks under the two rear floor retainers by pressing the button down and pressing them outward.

You may have to apply downward pressure to the floor track assembly to engage the slide locks under the floor retainers.

Double check to ensure that the slide locks are engaged under the retainers and locked into place.

3. Feed the tethered ring upward through the lower sidewall loop on each side of the vehicle.

Make sure that the tethered ring is placed on the outer edge of the tailgate, on each side of the vehicle, for later attachment to the tray.

4. Push and pull on the floor track assembly to make sure it is locked into place.

Replacing the Sliding Rear Convenience/Cargo Tray

The floor track assembly must be installed first for the sliding rear convenience/cargo tray to stay locked into place. See “Replacing the Floor Track Assembly” listed previously for more information.

1. Pick up the tray by the handle and support the tray from the bottom with your other hand.
2. Place the tray onto the floor track assembly. Make sure that the two front axles are placed over the hooks on the rear of the floor track assembly. There are four (4) axles on the bottom of the tray (two in front and two in back).

Make sure the rollers on the bottom of the tray are located in the tracks of the floor track assembly.

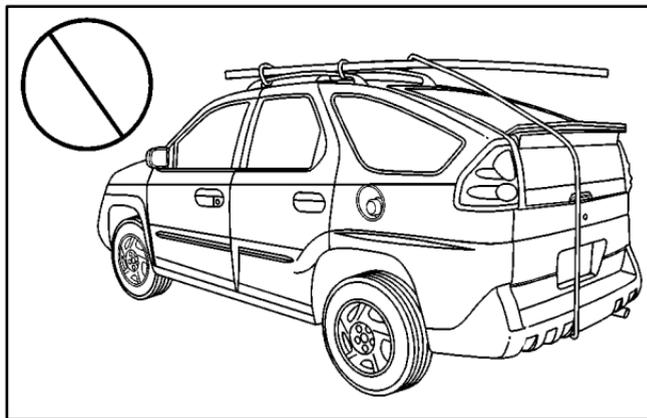
3. Roll the tray forward into the vehicle until you hear a click.
4. Press the release lever and pull the tray onto the tailgate. Connect the hook to the tethered ring located on each side of the sliding rear convenience/cargo tray.
5. Press the release lever and roll the tray back into the vehicle.

You will hear a click when the tray is locked into position.

Roof Rack System (Option)

CAUTION:

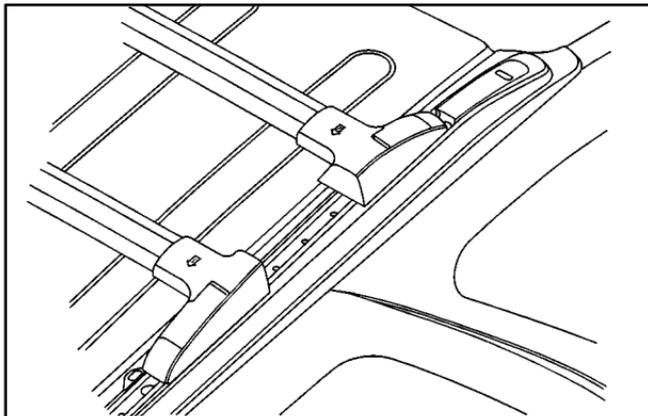
If you try to carry something on top of your vehicle that is longer or wider than the luggage carrier -- like paneling, plywood, a mattress, and so forth -- the wind can catch it as you drive along. This can cause you to lose control. What you are carrying could be violently torn off, and this could cause you or other drivers to have a collision, and of course damage your vehicle. You may be able to carry something like this inside. But, never carry something longer or wider than the luggage carrier on top of your vehicle.



If you have the luggage carrier, you can load things on top of your vehicle. If you do load things on the top of your vehicle, you must load them on the luggage carrier crossrails. The luggage carrier has four tie-down loops on the inside of each right and left side rail. These let you secure cargo placed on the crossrails, as long as they are not wider or longer than the luggage carrier.

NOTICE:

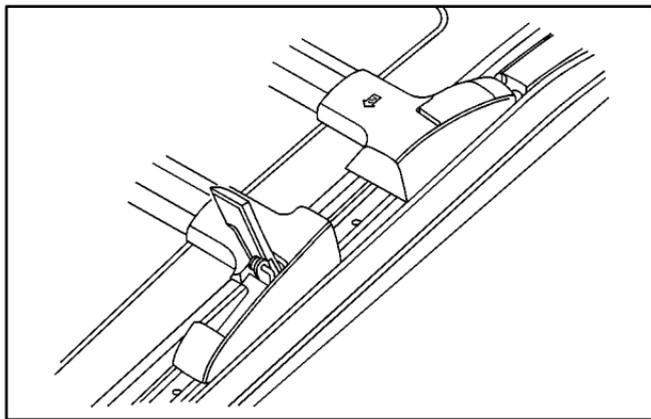
Damage may be caused to the roof of your vehicle if anything is placed directly on the roof.

**NOTICE:**

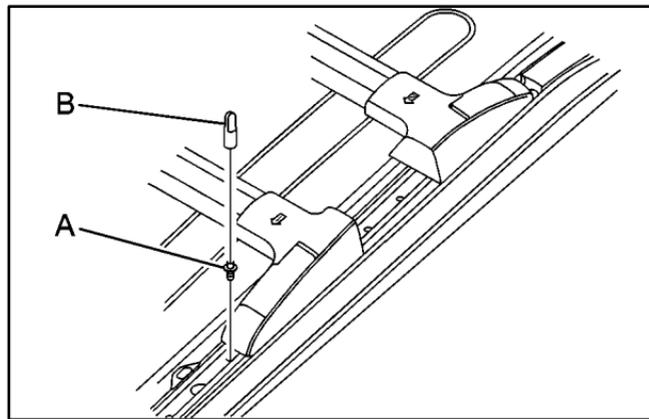
Loading cargo that weighs more than 220 lbs. (100 kg) on the luggage carrier may damage your vehicle.

Don't exceed the maximum vehicle capacity when loading your vehicle. For more information on vehicle capacity and loading, see "Loading Your Vehicle" in the Index.

To prevent damage or loss of cargo as you're driving, check now and then to make sure the luggage carrier and cargo are still securely fastened.



Your luggage carrier has release levers within the end of each crossrail support.



To adjust the crossrail(s), first remove the sunroof stop (A) by using the tool (B) located in the plastic bag in the glove box.

To remove the sunroof stop, do the following:

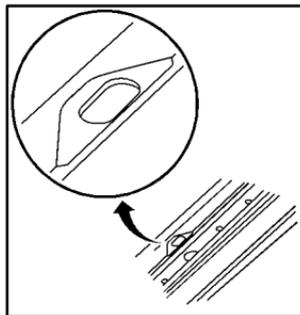
1. Remove the tool located in the bag in the glovebox labeled “tool kit-acstry.”
2. Place the tool on the screw located in the side rail assembly in front of the front crossrail.
3. Remove the screw.
4. Repeat for the other side.
5. Put the tool and the screws back in the plastic bag in the glove box.

Lift the release levers on each side to unlock the crossrails. Slide the crossrails forward or backward, as needed, to accommodate loads of various sizes.

After repositioning the crossrails, engage the release lever. This will lock the crossrails in place.

NOTICE:

Do not open the sunroof if the crossrails are not in the full rear position. This could cause damage to the sunroof glass panel and/or the crossrails.



Use the four tie-down loops in each of the side rails to help secure large loads.

To replace the sunroof stop, do the following:

1. Put the crossrails in the full rear position.
2. Put the screws back into each side rail assembly. Make sure the screws are in the first hole in front of the crossrail.

Ashtray and Cigarette Lighter

The ashtray and cigarette lighter they are located in the glove box.

The ashtray fits into the cupholders. The cigarette lighter installs into the accessory power outlet in the instrument panel switchbank.

To use the lighter, press it in all the way and let go. When it's ready, it will pop back out by itself.

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.

NOTICE:

Don't put papers and other things that burn into your ashtrays. If you do, cigarettes or other smoking materials could set them on fire, causing damage.

Sun Visors

To block out glare you can swing down the visors. You can also remove them from the center mount and swing them to the side. There is an extension on the inboard side of the sun visors. Pull the extension out to block out glare.

Visor Vanity Mirrors

Pull down the sun visor. Flip up the cover to expose the vanity mirror.

Lighted Visor Vanity Mirrors (Option)

Pull down the sun visor. Flip up the cover to expose the vanity mirror. The lamps will come on when you open the cover.

Accessory Inflator System (Option)

Your vehicle may be equipped with an air inflator. With it, you can inflate things like bicycle tires and basketballs, and you can also use it to bring your tires up to the proper pressure.



The air inflator is located in the rear compartment on the driver's side. To remove the cover, pull the tab on the cover and pull it off.

The air inflator kit is stored in the glove box. It includes a 20-foot (6 m) hose with an air pressure gage and nozzle adapters.

CAUTION:

Inflating something too much can make it explode, and you or others could be injured. Be sure to read the inflator instructions, and inflate any object only to its recommended pressure.

To use your air inflator system do the following:

1. Turn the ignition to ACCESSORY or ON.
2. Attach the appropriate nozzle adapter, if required, to the end of the hose that has the pressure gage.
3. Then attach that end of the hose to the object you wish to inflate.
4. Remove the protective cap covering the accessory inflator outlet.
5. Attach the other end of the hose to the outlet.
6. Then press the ON switch.

If the air inflator system does not turn on, the fuse may be blown or installed incorrectly. See “Fuses and Circuit Breakers” in the Index or see your dealer for service.

Your air inflator will automatically shut off after about 10 minutes. To reset, press the ON switch again.

Don't run your air inflator for longer than 30 minutes at one time. If you do, you may damage the system. After 30 minutes, wait at least 10 minutes before restarting the air inflator.

To turn off the inflator, press OFF and detach the hose from the inflated object first, then from the outlet. Replace the protective cap. Place the inflator kit tools in the pouch, and store in the glove box.

Accessory Power Outlets

With accessory power outlets you can plug in auxiliary electrical equipment such as a cellular telephone or CB radio.

There is a single front power outlet located on the floor console above the vents.

There are two rear power outlets. One is located in the rear of the floor console below the vents. The other is located in the rear of the vehicle on the driver's side.

To use an outlet, pull the cover down. When not in use, cover the outlet with the protective cap.

NOTICE:

When using the accessory power outlets:

- **Maximum load of any electrical equipment should not exceed 20 amps.**
- **Be sure to turn off any electrical equipment when not in use. Leaving electrical equipment on for extended periods can drain the battery.**

Certain electrical accessories may not be compatible with the accessory power outlet and could result in blown vehicle or adapter fuses. If you experience a problem see your dealer for additional information on accessory power outlets.

NOTICE:

Adding some electrical equipment to your vehicle can damage it or keep other things from working as they should. This wouldn't be covered by your warranty. Check with your dealer before adding electrical equipment, and never use anything that exceeds the amperage rating.

When adding electrical equipment, be sure to follow the proper installation instructions included with the equipment.

NOTICE:

Power outlets are designed for accessory plugs only. Do not hang any type of accessory or accessory bracket from the plug. Improper use of the power outlet can cause damage not covered by your warranty.

OnStar[®] System (If Equipped)

OnStar is a vehicle communications system that offers a variety of services and provides a one-touch hands-free communication link between you and the OnStar Center. To receive OnStar services, a service subscription agreement is required and an additional fee may be required. Services are available 24 hours a day, 7 days a week. For more information, call 1-888-ONSTAR-7 (1-888-667-8277).



OnStar Services Button: Press this button once to contact an advisor who will be able to assist you with these services. If you are not quickly connected, the system will automatically reset and redial. This ensures connection to the center; there is no additional action required. Press the Communication button to cancel the automatic redial.

 **Emergency Button:** In an emergency situation, press the emergency service button. Upon receiving the call, an advisor at the center will locate your vehicle and assess the situation. If necessary, the advisor will alert the nearest emergency service provider.

 **Communication Button:** Press this button at the end of a call. Also press this button to answer a call from the center, or cancel a call if one of the other buttons is accidentally pressed. This button is also used to access OnStar Personal Calling and Virtual Advisor services. See the OnStar owner package for more information.

Volume Control: You can control the volume of the OnStar System using either the volume knob on the radio or, if equipped, the steering wheel volume control.

 **Telltale Light:** This light will indicate the status of the system. A solid green light will come on when you start the vehicle to let you know that the system is on and is ready to make or receive calls.

If the light blinks green it means that an incoming or outgoing call is in progress. Press the Communication button if you notice the light blinking and you are not on a call.

The light will be red in the event of an OnStar system malfunction. If this occurs press the OnStar Services button to attempt to contact an advisor. If the connection is made, the advisor will assist you with steps to take to make sure that the system is functioning properly. If you cannot contact the advisor, take your vehicle to your dealership as soon as possible for assistance.

Cellular Antenna: The cellular antenna on the outside of your vehicle is critical to effective communications using the OnStar system. Optimum cellular reception can be obtained when the mast is straight up and down.

OnStar Services

The following services are available within OnStar service plans. Your vehicle comes with a specific one-year service plan than allows use of some or all of the following services.

- **Automatic Notification of Air Bag**

Deployment: If an air bag deploys, a priority emergency signal is automatically sent to the center. An advisor will locate your vehicle's position, try to contact you and assist you in the situation. If the center is unable to contact you, an emergency service provider will be contacted.

- **Stolen Vehicle Tracking:** Call the center at 1-888-4-ONSTAR (1-888-466-7827) to report your vehicle stolen. The system can then attempt to locate and track your vehicle and the advisor will assist the proper authorities.

- **Roadside Assistance with Location:** For vehicle breakdowns, press the OnStar Services button. An advisor will contact the appropriate help.

- **Remote Diagnostics:** If an instrument panel light comes on, press the OnStar Services button. An advisor can perform a check of the engine on-board computer and recommend what action needs to be taken.
- **OnStar MED-NET:** Med-Net can store your personal medical history and provide it to emergency personnel if necessary. (Requires activation and additional fee.)
- **Accident Assist:** An advisor can provide step-by-step guidance following an accident.
- **Remote Door Unlock:** To contact the center, call 1-888-4-ONSTAR. You will be required to provide your security information. An advisor will send a command to your vehicle to unlock itself. The advisor can delay unlocking your vehicle. Remote Door Unlock is disabled 48 hours after the vehicle is parked to maintain the battery charge.
- **Vehicle Locator Service:** To contact the center, call 1-888-4-ONSTAR. You will be required to provide your security information. An advisor will send a command to your vehicle to sound the horn and/or flash the lamps.

- **Route Support:** An advisor can provide directions or guidance to most places you want to go. In addition, they can help you locate gas stations, rest areas, ATMs, hospitals, hotels, stores, eateries and more.
- **Ride Assist:** An advisor can locate transportation in the event that you are unable to drive.
- **Concierge Services:** The concierge advisor can obtain tickets, reservations, or help with vacation/trip planning and other unique items and services.

OnStar System Limitations

Complete limitations can be found on the Subscriber Services Agreement.

In order to provide you with excellent service, calls with the OnStar Center may be monitored or recorded.

OnStar service is:

- Available in the 48 contiguous United States, Alaska, Hawaii and Canada;
- available when the vehicle is within the operating range of a cellular provider;

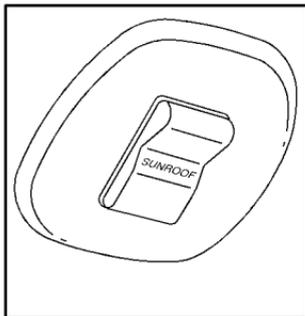
- subject to limitations caused by atmospheric conditions, such as severe weather or topographical conditions, such as mountainous terrain;
- subject to cellular carrier equipment limitations.

Global positioning locating capabilities will not be available if satellite signals are obstructed.

OnStar will not function if the vehicle's battery is discharged or disconnected. It may also be inoperative if the vehicle is in an accident and the OnStar or vehicle electrical system components are damaged.

OnStar is the communication link between you and existing governmental emergency and roadside service providers. OnStar will receive your call and use reasonable effort to contact an appropriate provider. OnStar cannot promise that the providers will respond in a timely manner or at all.

Sunroof (Option)



If your vehicle has the optional sunroof, the switch is located between the sun visors.

The sunroof switch will only work when the ignition is on or when the ignition is off and RAP is active. See “Retained Accessory Power” in the Index.

The sunshade must be opened by hand.

To vent open the glass panel, press the rear of the switch. Press the switch rearward a second time and release it to express open the glass panel. The glass panel and sunshade will fully open.

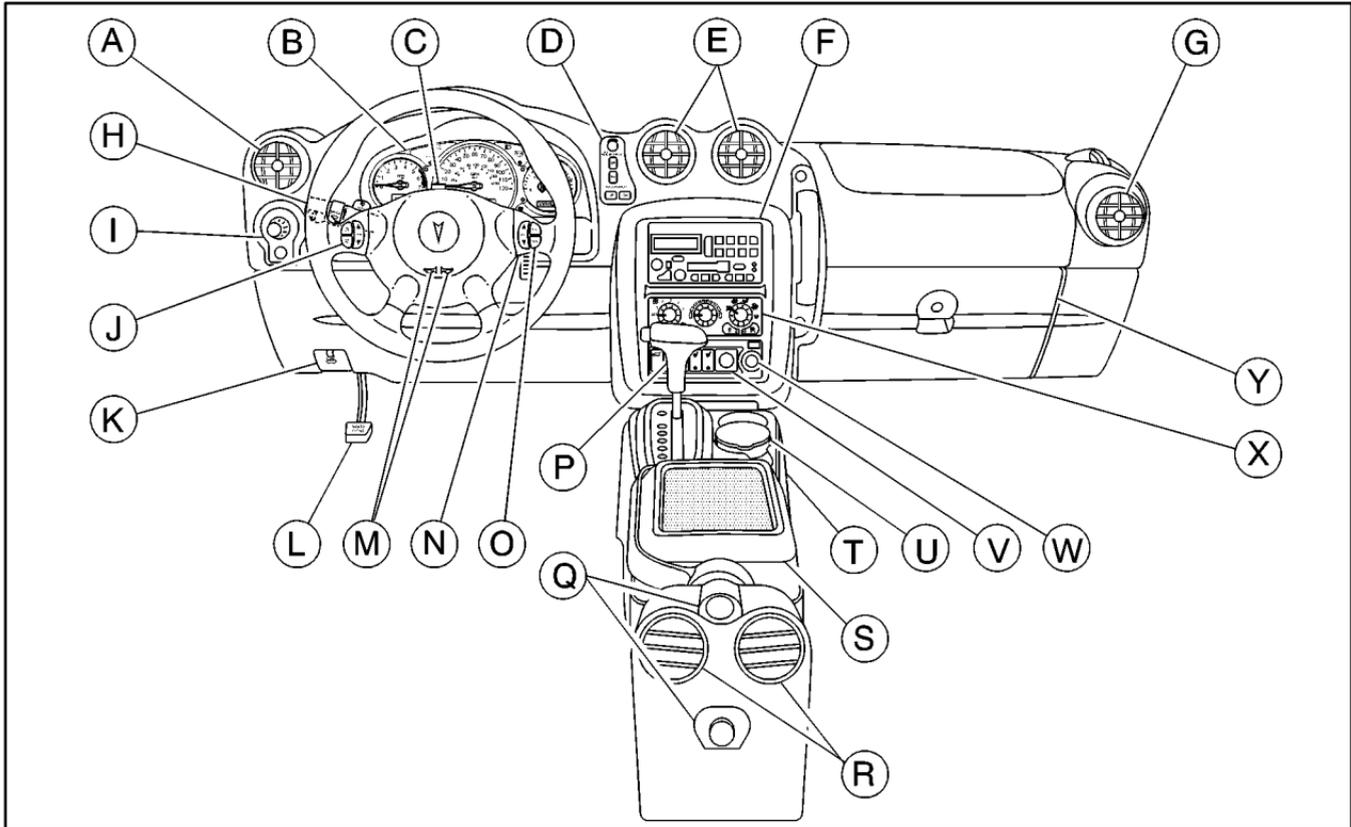
When the glass panel is express opening, pressing the switch forward will stop it. If you press the switch for more than one and a half seconds, the express open operation will be overridden and the sunroof will operate manually.

To close the glass panel, press and hold the front of the switch until the motor stops.

NOTICE:

Do not open the sunroof if the luggage carrier crossrails are not in the full rear position. This could cause damage to the sunroof glass panel and/or the crossrails. See “Roof Rack System” in the Index for more information.

The Instrument Panel -- Your Information System

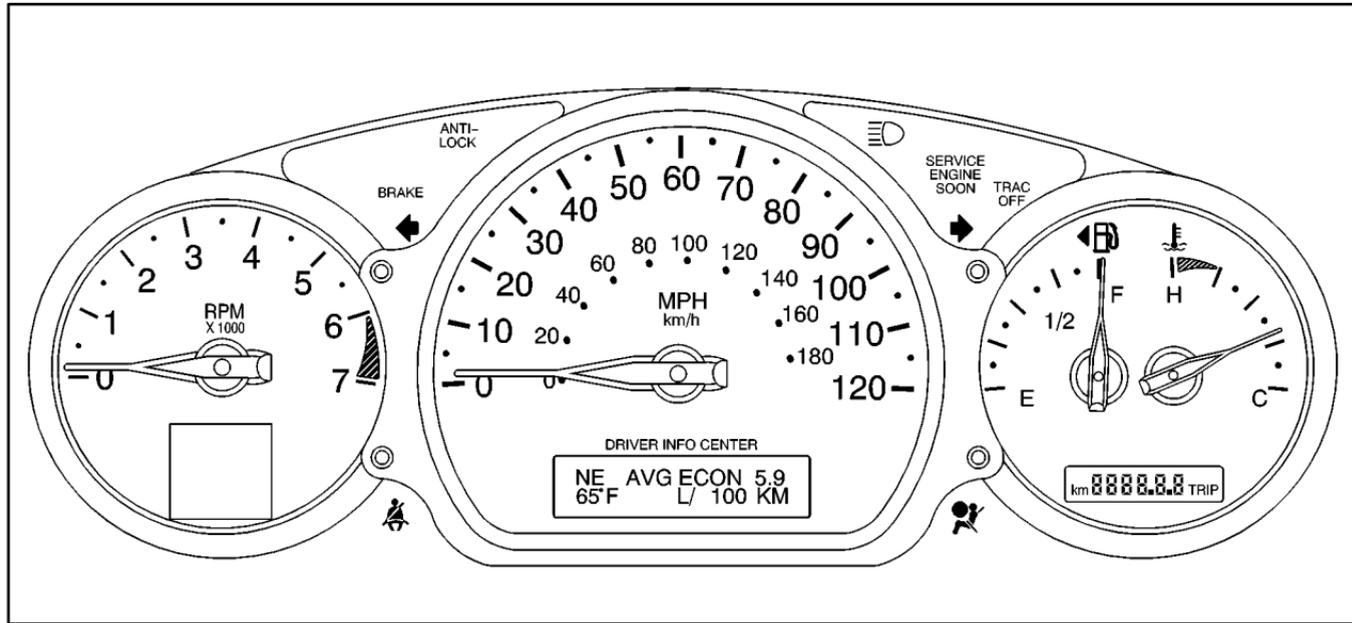


The main components of the instrument panel are the following:

- A. Side Vents
- B. Instrument Panel Cluster
- C. Hazard Warning Flasher Button
- D. Head-Up Display Controls and Driver Information Center (DIC) Controls (If Equipped) or DIC Controls (If Equipped)
- E. Center Vents
- F. Audio System
- G. Side Vents
- H. Turn Signal/Multifunction Lever
- I. Exterior and Interior Lamp Controls
- J. Audio Steering Wheel Controls (If Equipped)
- K. Hood Release
- L. Parking Brake
- M. Horn
- N. Ignition Switch
- O. Audio Steering Wheel Controls (If Equipped)
- P. Shift Lever
- Q. Accessory Power Outlets
- R. Rear Vents
- S. Console/Cooler
- T. Instrument Panel Fuse Block
- U. Cupholders and Ashtray
- V. Instrument Panel Switchbank
- W. Cigarette Lighter
- X. Comfort Controls
- Y. Glove Box

Instrument Panel Cluster

Your 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 other things you'll need to drive safely and economically. The indicator warning lights and gages are explained on the following pages.



United States uplevel shown, United States base level and Canada similar

Speedometer and Tamper Resistant Odometer

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

Your vehicle has a tamper-resistant odometer.

You may wonder what happens if your vehicle needs a new odometer installed. If the new one can be set to the mileage total of the old odometer, then that will be done. If it can't, then it's set at zero and a label must be put on the driver's door to show the old mileage reading when the new odometer was installed.

If your vehicle is equipped with the Driver Information Center (DIC), you may toggle the odometer to either miles (used in the United States) or kilometers (used in Canada). See "Driver Information Center" in the Index.

Trip Odometers

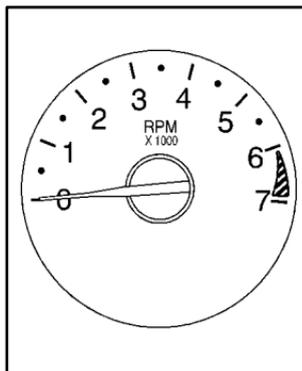


In addition to the standard odometer, the cluster can also display a trip odometer. The display can be toggled between the odometer and the trip odometer by quickly pressing and releasing the trip/reset button located to the right of the temperature gage. The display toggles once each time the trip/reset button is pressed for less than one and a half seconds. The display toggles in the following sequence: Odometer -- Trip Odometer. The trip odometer will continue to keep track of miles (kilometers) driven even if they are not currently displayed. To reset the odometer to zero, press and hold the trip/reset button for at least one and a half seconds, but less than three seconds. The trip odometer that is showing in the display will be reset.

Retro-Active Reset

The trip odometer has a feature called retro-active reset. This feature can be used to set the trip odometer to the number of miles (kilometers) driven since the ignition was last turned on. This can be used if you forget to reset your trip odometer at the beginning of a trip. To use the retro-active reset feature, press and hold the trip/reset button for at least three seconds. The trip odometer will then display the number of miles (kilometers) driven since the ignition was last turned on and you began driving. (If you use the retro-active reset feature after you have started the vehicle, but before you begin moving, the display will show the number of miles (kilometers) you drove during the last ignition cycle.) Once you begin driving, the trip odometer will accumulate mileage. For example, if you have driven 5.0 miles (8.0 km) since you started your vehicle, and then activate the retro-active reset feature, the display will show 5.0 miles (8.0 km). As you drive, the display will then increase to 5.1 miles (8.2 km), 5.2 miles (8.4 km), etc.

Tachometer



The tachometer displays 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.

Warning Lights, Gages, Messages 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 may also have a Driver Information Center (DIC) that works along with the warning lights and gages. See "Driver Information Center" in the Index.

Your vehicle also has a message center that works along with the warning lights and gages. See "Message Center" in the Index.

Safety Belt Reminder Light

When the key is turned to ON or START, a chime will come on for several seconds to remind people to fasten their safety belts.



The safety belt light will also come on and stay on for several seconds. If the driver's belt is already buckled, neither the chime nor the light will come on.

Air Bag Readiness Light

There is an air bag readiness light on the instrument panel, which shows the air bag symbol. 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 sensor, the air bag modules, the wiring and the diagnostic module. For more information on the air bag system, see "Air Bag" in the Index.



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.

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.

Brake System Warning Light

When the ignition is on, the brake system warning light will 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.

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 could be a brake problem. Have your brake system inspected right away.



United States



Canada

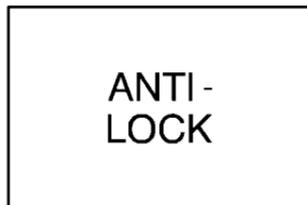
This light should come on briefly when you turn the ignition key to ON. If it doesn't come on then, have it fixed so it will be ready to warn you if there's a problem.

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 "Anti-Lock Brake System Warning Light" and "Towing Your Vehicle" in the Index.

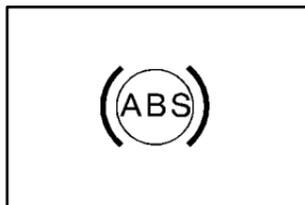
CAUTION:

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.

Anti-Lock Brake System Warning Light



United States



Canada

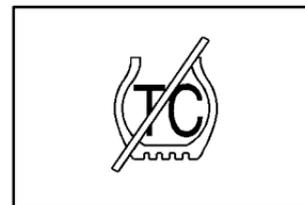
The anti-lock brake system warning light should come on for a few seconds when you turn the ignition key to ON. If the anti-lock brake system warning light stays on longer than normal after you've started your engine, turn the ignition off. Or, if the light comes on and stays on when you're driving, 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, the anti-lock brake system needs service and you don't have anti-lock brakes.

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 (If Equipped)



United States



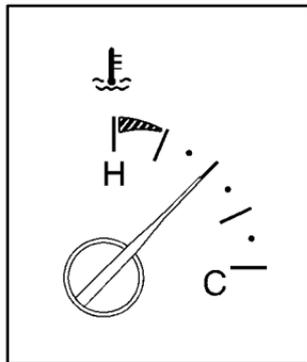
Canada

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

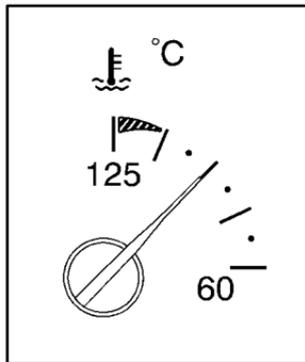
- If you turn the system off by pressing the TRAC OFF button located in the instrument panel switchbank the warning light will come on and stay on. To turn the system back on, press the button again. The warning light should go off. See "Traction Control System" in the Index for more information.
- If there's an engine-related and 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 brake system problem is caused by the brakes beginning to overheat, the brakes will need to cool down before the traction control system warning light will turn off.

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 Gage



United States



Canada

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

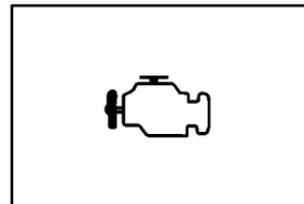
It means that your engine coolant has overheated. If you have been operating your vehicle under normal driving conditions, you should pull off the road, stop your vehicle and turn off the engine as soon as possible.

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 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, intake 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.

NOTICE: (Continued)

NOTICE: (Continued)

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

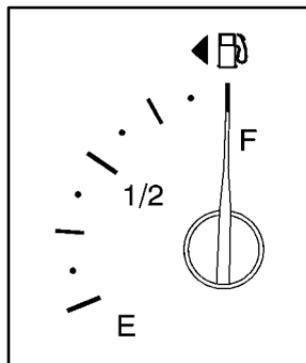
Some state/provincial and local governments have or may begin programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration.

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

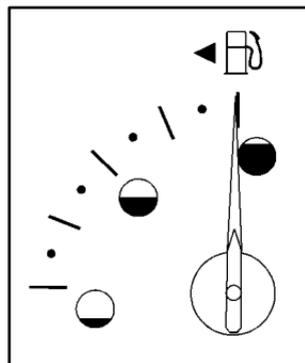
Your vehicle will not pass this inspection if the SERVICE ENGINE SOON or CHECK ENGINE light is on or not working properly.

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.

Fuel Gage



United States



Canada

When the indicator nears empty, you still have a little fuel left, but you should get more soon.

If your fuel is low, the warning message in the message center will come on. See “Low Fuel Warning Message” later in this section.

Your fuel gage tells you about how much fuel you have left when the ignition is on.

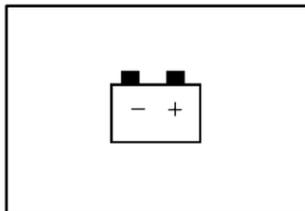
Here are four things that some owners ask about. All these things are normal and do not indicate that anything is wrong with the fuel gage.

- At the gas station, the gas pump shuts off before the gage reads full.
- It takes a little more (or less) fuel to fill up than the gage reads. For example, the gage reads half full, but it took more (or less) than half of the tank’s capacity to fill it.
- The gage pointer may move while cornering, braking or speeding up.
- The gage may not indicate empty when the ignition is turned off.

Message Center

The message center is located in the instrument panel cluster below the tachometer. It gives you important safety and maintenance facts.

Charging System Indicator Message



The charging system battery symbol will come on in the message center when you turn on the ignition as a check to show you it is working.

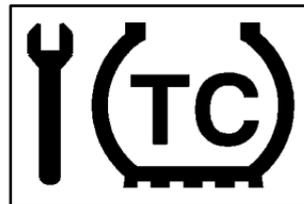
It will remain on as long as the engine is not running. It should go out once the engine is running. If it stays on, or comes on while you are driving, you may have a problem with the charging system. It could indicate that you have problems with a generator drive belt, or another electrical problem. Have it checked right away. Driving while this indicator appears in the message center could drain your battery.

If you must drive a short distance with the message on, be certain to turn off all your accessories, such as the radio and air conditioner.

Service Traction System Warning Message (Option)



United States



Canada

If your vehicle has the traction control system and this message is displayed when you're driving, there may be a problem with your traction control system. Your vehicle may need service.

When this message is displayed, the traction control system will not limit wheel spin. Adjust your driving accordingly.

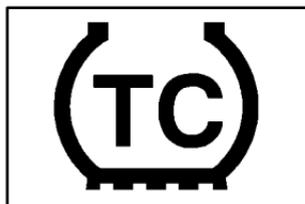
If there's an engine-related and brake system problem that is specifically related to traction control, the traction control system will turn off and the warning message will come on. If the brake system problem is caused by the brakes beginning to overheat, the brakes will need to cool down before the traction control system warning message will turn off.

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

Traction Active Message (Option)



United States

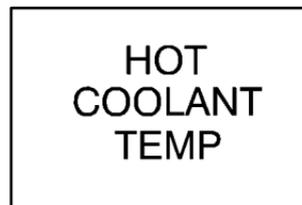


Canada

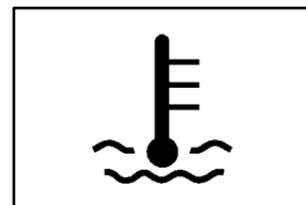
If your vehicle has the traction control system, the TRACTION ACTIVE message will appear when the traction control system is limiting wheel spin. You may feel or hear the system working, but this is normal.

Slippery road conditions may exist if this message appears, so adjust your driving accordingly. The message will stay on for a few seconds after the traction control system stops limiting wheel spin.

Engine Coolant Temperature Warning Message



United States



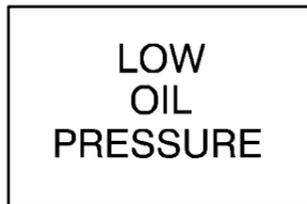
Canada

This message will come on when your engine gets too hot.

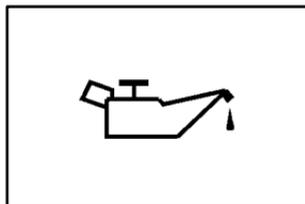
If this message comes on, it means that your engine coolant has overheated. If you have been operating your vehicle under normal driving conditions, you should pull off the road, stop your vehicle and turn off the engine as soon as possible.

See “Engine Overheating” in the Index.

Low Oil Pressure Message



United States



Canada

Your vehicle is equipped with a low oil pressure warning message.

Your oil pressure message lets you know when you may have a problem with your engine oil pressure.

When the engine is running and this message comes on, the engine oil level may be too low. There may also be another problem causing low oil pressure.

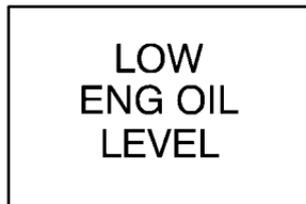
CAUTION:

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.

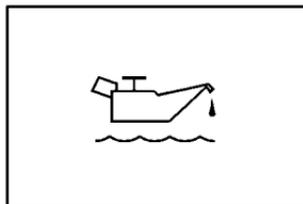
NOTICE:

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

Low Engine Oil Level Message



United States



Canada

If this message comes on, it means your engine is low on oil.

You need to check the oil level right away. Have your vehicle serviced immediately.

Change Engine Oil Message



United States



Canada

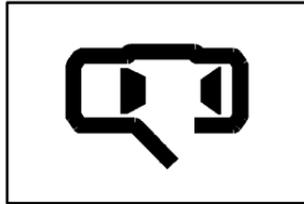
If this change engine oil message comes on and stays on after you started the engine, have the oil changed.

For additional information, see “Engine Oil, When to Change” in the Index. After changing the engine oil, the system must be reset. See “How to Reset the Change Engine Oil Message” in the Index.

Door Ajar Warning Message



United States



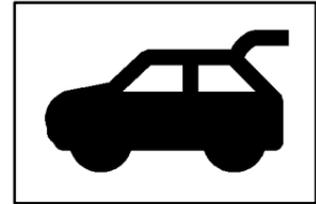
Canada

This message will come on when the ignition is turned to ON or START and the driver's or passenger's door is open.

Rear Hatch Ajar Warning Message



United States



Canada

This message will come on when the ignition is turned to ON or START and the liftgate or tailgate is open.

PASS-Key® III Security Message



United States

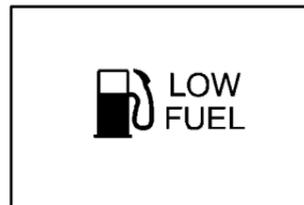


Canada

If you are ever driving and this message comes on and stays on, you will be able to restart 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.

Low Fuel Warning Message



United States



Canada

If your fuel is low, the warning message will come on and stay on until you add fuel.

If the warning message is still on after adding fuel, you need to reset the warning message. To reset the warning message, turn the ignition to OFF then to ON. If the message stays on, see your dealer right away.

Low Brake Fluid Warning Message



United States

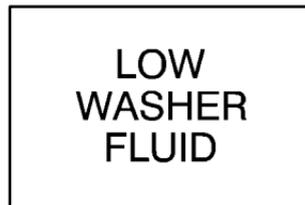


Canada

If your brake fluid is low, the warning message will come on and stay on until you add brake fluid.

If the warning message is still on after adding fluid, you need to reset the warning message. To reset the warning message, turn the ignition to OFF then to ON. If the message stays on, see your dealer right away.

Low Washer Fluid Warning Message



United States



Canada

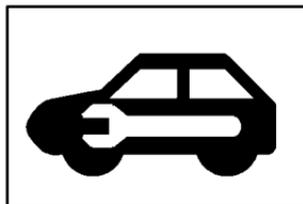
If your washer fluid is low, the warning message will come on and stay on until you add washer fluid. See “Windshield Washer Fluid” in the Index for adding washer fluid instructions.

If the warning message is still on after adding fluid, you need to reset the warning message. To reset the warning message, turn the ignition to OFF then to ON. If the message stays on, see your dealer right away.

Service Vehicle Soon Message



United States



Canada

This light will come on if your vehicle has certain non-emission related problems.

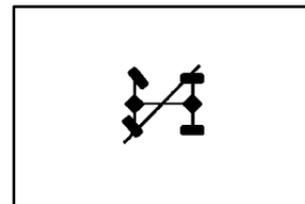
For example, if the entire electrical system fails to send and receive messages from the vehicle's components, this message will come on.

These problems may not be obvious and may affect vehicle performance or durability. Consult a qualified dealership for necessary repairs to maintain top vehicle performance.

AWD Disable Warning Message (Option)



United States



Canada

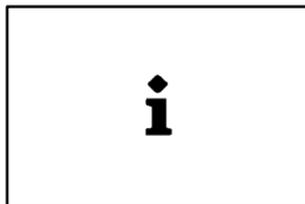
You will receive this message when there is a spare tire on the vehicle, when the anti-lock brake system warning light comes on or when the rear differential fluid is overheating. The message will go out when the differential fluid cools.

The all-wheel-drive system will be disabled until the compact spare tire is replaced by a full-size tire. If the warning message is still on after putting on the full-size tire, you need to reset the warning message. To reset the warning message, turn the ignition to OFF then to ON. If the message stays on, see your dealer right away. See "All-Wheel Drive" in the Index for more information.

Program Mode Message



United States

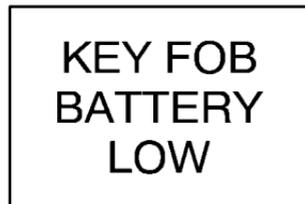


Canada

If you receive this message, your vehicle is in program mode. You are ready to begin programming your vehicle's customization features.

If your vehicle does not have the Driver Information Center (DIC), see "Vehicle Customization" in the Index. If your vehicle is equipped with the Driver Information Center (DIC), see "Driver Information Center" in the Index.

Key Fob Battery Low Warning Message



United States



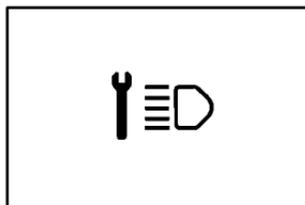
Canada

If you receive this message, the battery in the remote keyless entry needs to be replaced. See "Battery Replacement" in the Index for battery replacement instructions.

Park Lamp Warning Message



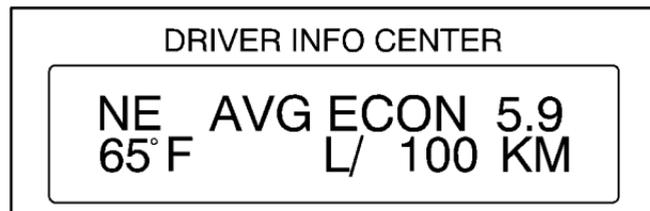
United States



Canada

If you receive this message, one or both of the vehicle's parking lamp bulbs needs replacement. See "Bulb Replacement" in the Index for bulb replacement instructions.

Driver Information Center (DIC) (If Equipped)

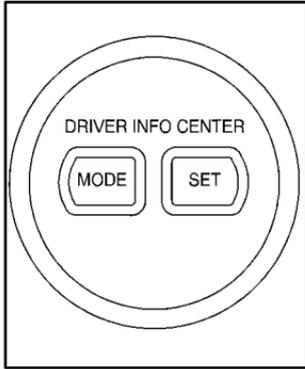


If your vehicle is equipped with the Driver Information Center (DIC), the display is located on the instrument panel cluster below the speedometer, directly above the steering column. The DIC will show information about the vehicle and the surroundings.

When the ignition is turned to ON or START, the DIC will display the following:

PONTIAC: PONTIAC will be displayed for three seconds.

DRIVER 1: This message will be displayed for another three seconds after PONTIAC appears in the display. This display lets the driver know which driver's remote keyless entry transmitter is being used and the driver's customization features.



The DIC controls are located to the right of the instrument panel cluster.

The DIC will be in the last mode displayed when the engine was turned off. To select a different mode, press **MODE**. The display will cycle through its options at each press of **MODE**.

MODE: This button lets you cycle through the options on the display.

SET: This button is used to select and set the options to your preference.

Driver Information Center (DIC) Messages

The DIC will always display the compass reading and the outside temperature. If the temperature is below 38°F (3°C), the temperature reading will toggle between displaying the temperature and the word **ICE** for two minutes.

AVG ECONOMY (Average Economy): Average fuel economy is viewed as a long term approximation of your overall driving conditions. To learn the average fuel economy from a new starting point, press and hold the **SET** button while the average fuel economy is displayed on the DIC. The average fuel economy will set to zero.

INST ECONOMY (Instantaneous Economy): Instantaneous fuel economy varies with your driving conditions, such as acceleration, braking and the grade of the road being traveled.

FUEL RANGE: The fuel range is an estimated distance that your vehicle can travel on the remaining fuel. The fuel economy used to calculate the range is based on your driving history since the last reset of the average speed.

FUEL USED: The fuel used display will show you how much fuel has been used since the last time it was reset. To reset the fuel used to zero, press and hold the SET button while the fuel used is displayed on the DIC and until the display goes to zero.

AVG SPEED (Average Speed): The average speed display will show you your average speed from when you first started your vehicle. To reset the average speed, press and hold the SET button while the average speed is displayed on the DIC and until the speed resets to your current speed.

OIL LIFE LEFT HOLD SET TO RESET: This message displays the current percentage of the GM Oil Life System™. Be careful not to reset this display other than when the oil has been changed. See “How to Reset the Change Engine Oil Message” in the Index.

USE SET TO SELECT ENGLISH METRIC: You can use this display to select English or metric. Press the SET button to toggle between English or metric. The odometer, the trip odometer and if your vehicle is equipped the head-up display will also change.

OFF: No driver information will be displayed in this mode. If the DIC is left in this mode for more than three seconds, the display will turn off. Press the MODE button to start the DIC.

Compass Variance

Compass variance is the difference between magnetic north and geographic north. In some areas of the country, the difference is great enough to cause the compass to give false readings. If this occurs, the compass must be set.

Automatic Compass Calibration

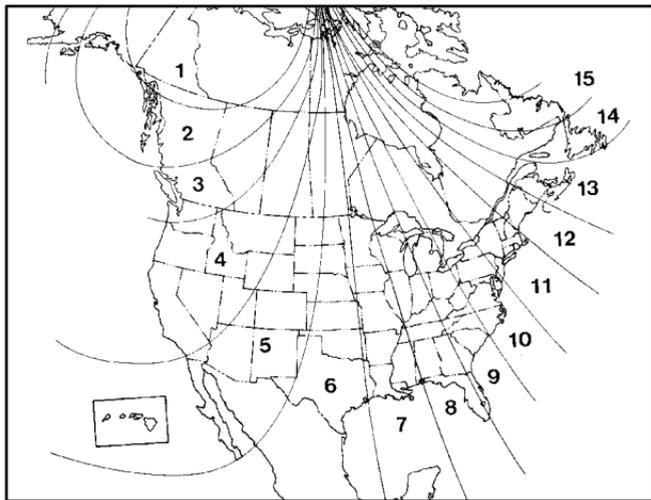
The compass is self-calibrating, which eliminates the need to manually set the compass. When the vehicle is new, the calibration process may not be complete. In these cases, the calibration symbol C will be displayed where the compass reading is normally displayed.

To calibrate the compass, in an area free from large metal objects, make three 360 degree turns. The calibration symbol will turn off and the compass reading will be displayed.

Manual Compass Calibration

If the compass appears erratic and the calibration symbol does not appear, you must manually put the compass into the calibration mode. To get into this mode, do the following:

1. Turn the ignition on and cycle the DIC to the compass/temperature mode.
2. Press and hold the SET button for longer than three seconds.



ZONE # PRESS & HOLD SET TO CHANGE: This display mode will be displayed when you are manually calibrating the system. The current zone number for compass variance will be displayed in place of the # symbol. Use the SET button to select the zone number from the graphic shown to select the current area of the country that you are driving in.

PRESS SET TO CALIBRATE COMPASS: After selecting your zone, press the MODE button and this will be displayed on the DIC. Press the SET button and complete three 360 degree turns in an area free from large metal objects.

The following two messages will toggle in the display until you calibrate the compass:

- **DRIVE VEHICLE IN CIRCLE**
- **CALIBRATING COMPASS**

When calibration is complete, the display will return to its normal mode.

Driver Information Center (DIC) Vehicle Customization

The DIC is used to program the choices of two drivers. The drivers are recognized as DRIVER 1 and DRIVER 2 on the DIC display. You will let the DIC know which driver you are by using your remote keyless entry transmitter. Each remote keyless entry transmitter was pre-programmed to belong to DRIVER 1 or DRIVER 2. Each transmitter may be programmed differently for each driver's preferences.

After you press the LOCK button on your transmitter and the ignition key is in ON, the DIC will display the identified driver number. The vehicle will also recall the vehicle customization features that were last programmed to correspond to your transmitter.

If you unlock your vehicle using your key instead of your transmitter, the DIC will not change drivers and your vehicle will recall the information from the last transmitter used.

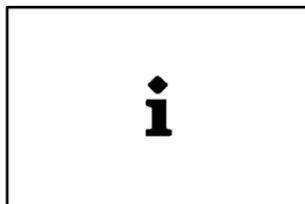
Entering Programming Mode

To program features, your vehicle must be in the programming mode. Follow these steps:

1. Turn the ignition key to ON with the vehicle in PARK (P).
2. Press and release the MODE button, scrolling through the DIC messages, until PRESS SET TO BEGIN PERSONALIZATION is displayed.
3. Press the SET button and TO SELECT DRIVER PRESS REMOTE LOCK will appear. Press the LOCK button on the optional remote keyless entry to start. This identifies which remote keyless entry transmitter is being programmed by displaying PERSONALIZATION FOR DRIVER 1 or PERSONALIZATION FOR DRIVER 2.



United States



Canada

4. The program mode message will appear in the message center as an indication that your vehicle is ready to begin programming.
5. Follow the instructions given by the DIC.

Headlamp Exit Delay

This feature allows you to customize the headlamps and parking lamps.

OFF: The headlamps and parking lamps will not turn on at the same instant that the ignition is turned to OFF.

15: The headlamps and parking lamps will stay on for 15 seconds when the ignition is turned to OFF.

30: The headlamps and parking lamps will stay on for 30 seconds when the ignition is turned to OFF.

60: The headlamps and parking lamps will stay on for 60 seconds when the ignition is turned to OFF.

Before your vehicle was shipped from the factory, it was programmed in 30-second activation mode. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the MODE button until HEADLMP EXIT DELAY appears in the DIC.
3. Press the SET button until the arrow is before the mode you prefer.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Interior Lighting Delay

The interior lighting delay feature can be programmed to one of the following modes:

ON: This feature will continue to illuminate the interior lamps for 25 seconds after all doors have been closed so that you can find your ignition and buckle your safety belt at night.

OFF: This feature will not illuminate the interior of your vehicle when all of the doors are closed.

Interior lighting delay will not occur while the ignition is in ON. After 25 seconds have passed, the interior lamps will slowly fade out. The lamps will fade out before the 25 seconds have passed if the following conditions are met:

- The ignition is turned to ON,
- all doors are locked using the optional remote keyless entry transmitter,
- the interior lamp override is turned on, or
- there is no occupant activity detected for an illumination period of 25 seconds.

Before your vehicle was shipped from the factory, it was programmed in ON. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the MODE button until INTERIOR LIGHTING DELAY appears on the DIC.
3. Press the SET button until the arrow is before ON or OFF.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Interior Lighting On

The interior lighting on feature can be programmed to one of the following modes:

KEY OUT: The interior lamps will come on for about 25 seconds whenever you remove the key from the ignition.

DOOR: The interior lamps will come on for about 25 seconds when any door is opened.

Interior lighting on will not occur while the ignition is in ON. After 25 seconds have passed, the interior lamps will slowly fade out. The lamps will fade out before the 25 seconds have passed if the following conditions are met:

- The ignition is turned to ON,
- LOCK is pressed on the optional remote keyless entry transmitter,
- the interior lamp override is turned on, or
- there is no occupant activity detected for an illumination period of 25 seconds.

Before your vehicle was shipped from the factory, it was programmed in DOOR. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the MODE button until INTERIOR LIGHTING ON appears on the DIC.
3. Press the SET button until the arrow is before KEY OUT or DOOR.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Auto Door Unlock

You can program your vehicle to one of the following modes:

Off: When the shift lever is put in PARK (P), your doors will not unlock automatically.

Driver: When the shift lever is put in PARK (P), only your driver's door will unlock.

All: When the shift lever is put in PARK (P), all doors will unlock.

Before your vehicle was shipped from the factory, it was programmed in ALL. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for "Entering Programming Mode" listed previously.
2. Make sure that the AUTO DOOR LOCK feature is programmed to ON.
3. Press the MODE button until AUTO DOOR UNLOCK appears on the DIC.
4. Press the SET button until the arrow is before OFF, DRIVER or ALL.

If the auto door unlock feature has been programmed to DRIVER or ALL, the automatic door unlock feature can also be programmed to one of the following modes:

PARK: All doors will unlock when the shift lever is put in PARK (P).

KEY OUT: All doors will unlock when the ignition key is removed.

Before your vehicle was shipped from the factory, it was programmed in PARK. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for "Entering Programming Mode" listed previously.
2. Follow the instructions for programming AUTO DOOR UNLOCK to DRIVER or ALL listed previously.
3. Press the MODE button until AUTO DOOR UNLOCK/ PARK KEYOUT appears on the DIC.
4. Press the SET button until the arrow is before PARK or KEY OUT.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Delayed Locking

The delayed locking feature can be programmed to one of the following modes:

ON: Lock your vehicle using the power door lock switch or the optional remote keyless transmitter while any door is opened, you will hear three chimes and the doors will not lock. Five seconds after the last door is closed, all doors will lock.

Once delayed locking is programmed to ON, you can do the following:

- Cancel the delayed locking by pressing unlock using the power door lock switch or by fully inserting the key in the ignition,
- override the delayed locking feature by pressing lock immediately using the power door lock switch, or
- let the delayed locking feature complete the locking of the vehicle.

OFF: The doors will always lock immediately when you lock the doors using the power door lock switch or press LOCK on the optional remote keyless entry transmitter.

Before your vehicle was shipped from the factory, it was programmed in ON. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the MODE button until DELAYED LOCKING appears on the DIC.
3. Press the SET button until the arrow is before ON or OFF.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Remote Door Unlock

The remote door unlock feature can be programmed to one of the following modes:

DRIVER/ALL: With the first press of UNLOCK on the remote keyless entry transmitter, the driver's door will unlock, and with the second press of UNLOCK, within five seconds of the first press, all passenger's doors will unlock.

ALL: All doors will unlock with every press of UNLOCK on the remote entry transmitter.

Before your vehicle was shipped from the factory, it was programmed in ALL. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for "Entering Programming Mode" listed previously.
2. Press the MODE button until REMOTE DOOR UNLOCK appears on the DIC.
3. Press the SET button until the arrow is before DRIVER/ALL or ALL.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Unlock Feedback

The unlock feedback feature can be programmed to one of the following modes:

LIGHTS: This mode does the following:

- During the day, when the ignition is in OFF and UNLOCK on the remote keyless entry transmitter is pressed, the headlamps and parking lamps will flash, or
- During the night, when the ignition is in OFF and the headlamp exit delay feature is programmed to any mode but OFF, the headlamps and parking lamps will be activated for the same time period as the headlamp exit delay feature is programmed to when UNLOCK is pressed on the remote keyless entry transmitter (see "Headlamp Exit Delay" earlier in this section), or
- During the night, when the ignition is in OFF and the headlamp exit delay feature is programmed to OFF, the headlamps and parking lamps will be activated for 30 seconds when UNLOCK is pressed on the remote keyless entry transmitter (see "Headlamp Exit Delay" earlier in this section).

OFF: The headlamps and parking lamps will not flash when UNLOCK is pressed on the remote keyless entry transmitter.

Before your vehicle was shipped from the factory, it was programmed in LIGHTS. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Follow the instructions for programming HEADLAMP EXIT DELAY earlier in this section, to make sure which mode it is programmed to.
3. Press the SET button until UNLOCK FEEDBACK appears on the DIC.
4. Press the MODE button until the arrow is before LIGHTS or OFF.
5. Press the SET button once you have determined which mode you prefer.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Lock Feedback

The lock feedback feature can be programmed to one of the following modes:

OFF: When LOCK is pressed on the remote keyless entry transmitter, the headlamps and parking lamps will not flash and the horn will not sound.

LIGHTS: When LOCK is pressed on the remote keyless entry transmitter, the headlamps and parking lamps will flash briefly.

HORN: When LOCK is pressed on the remote keyless entry transmitter, the headlamps and parking lamps will flash briefly and the horn will sound.

Before your vehicle was shipped from the factory, it was programmed in HORN. The mode to which the vehicle has been programmed may have been changed since it left the factory. To determine the mode to which your vehicle is programmed to or to program your vehicle to a different mode, do the following:

1. Follow the instructions for “Entering Programming Mode” listed previously.
2. Press the MODE button until LOCK FEEDBACK appears on the DIC.
3. Press the SET button until the arrow is before OFF, LIGHTS or HORN.

The mode you selected is now set. You can either exit programming mode by following the instructions later in this section or program the next feature available on your vehicle.

Exiting Programming Mode

To exit programming mode, do one of the following:

- shift out of PARK (P),
- turn the ignition key out of ON, or
- do not program any commands for one minute while in the programming mode.

The programming mode message will turn off to let you know that you are no longer in the programming mode.

Once you have reached the end of the personalization features, PERSONALIZATION SELECTION IS DONE will appear briefly. Then PRESS SET TO EXIT MODE TO CONTINUE will appear. Pressing SET will exit you out of the DIC. Pressing MODE will take you to the beginning of personalization.

Head-Up Display (HUD) (Option)

CAUTION:

If the HUD 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 HUD image dim and placed low in your field of view.

If your vehicle has this option, it can display the speedometer reading in English or metric. The current radio station, CD number and/or track number or tape may also be displayed and will appear as an image focused out toward the front of your vehicle.

The Head-Up Display also displays the following messages when they appear on the instrument panel cluster:

- Turn Signal Indicators
- High-Beam Indicator
- Low-Fuel Warning Message

See each of these in the Index for more information.

The Head-Up Display also displays a CHECK GAGES icon, the following lights and message could appear on the instrument panel cluster when CHECK GAGES appears:

- Engine Coolant Temperature Warning Message
- Low Oil Pressure Message
- Charging System Indicator Message
- Low Brake Fluid Warning Message

See each of these in the Index for more information.



Be sure to continue scanning your displays, controls and driving environment just as you would in a vehicle without HUD. If you never look at your instrument panel cluster, you may not see something important, such as a warning light. Under important warning conditions, the CHECK GAGES icon will illuminate in the HUD. Glance at your instrument panel cluster for more information.

NOTICE:

Although the HUD image appears to be near the front of the vehicle, do not use it as a parking aid. The HUD was not designed for that purpose. If you try to use it as such, you may misjudge the distance and damage your vehicle.



The HUD controls are located to the right of the instrument panel cluster.

When the HUD is on, the speedometer reading will be displayed continually. The current radio station, cassette tape or CD number and track number will only be displayed for three seconds after the radio, tape or CD track status changes. This will happen whenever one of the radio controls is pressed, either on the radio or on the optional steering wheel controls.

To adjust the HUD so you can see it properly:

1. Start your engine and turn the dimmer knob to the desired HUD image brightness.

The brightness of the HUD image is determined by the ambient light conditions in the direction your vehicle is facing and where you have the HUD dimmer knob set. If you are facing a dark object or a heavily shaded area, your HUD may anticipate that you are entering a dark area and may begin to dim.

2. Adjust the driver's seat. If you change your seat position later, you may have to readjust your HUD.
3. Press the UP or DN buttons until the HUD image is easy to see and then press the DN button until the HUD image is as low as possible, but, remains in full view straight ahead near the front bumper.

The HUD image can only be adjusted up and down, not side-to-side.

4. To turn the image off, turn the dimmer knob counterclockwise to OFF.

If the sun comes out or it becomes cloudy, you may need to adjust the HUD brightness again using the dimmer knob. Polarized sunglasses could make the HUD image harder to see.

Clean the inside of the windshield as needed to remove any dirt or film that reduces the sharpness or clarity of the HUD image.

To clean the HUD, spray household glass cleaner on a soft, clean cloth. Wipe the HUD lens gently, then dry it. Do not spray cleaner directly on the lens because the cleaner could leak into the unit.

If the ignition is on and you can't see the HUD image, check to see if one of the following has occurred:

- The HUD unit is covered by something.
- The HUD dimmer knob is not adjusted properly.
- The HUD image is not adjusted to the proper height.
- The ambient light (in the direction your vehicle is facing) is low.
- The fuse is blown. See “Fuses and Circuit Breakers” in the Index.

Keep in mind that your windshield is part of the HUD system. If you ever have to have your windshield replaced, be sure to get one that is designed for HUD or your HUD image may look blurred and out of focus.



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.

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3-2	Air Conditioning with Temperature Control	3-39	Rear Seat Audio (RSA) (If Equipped)
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3-6	Air Conditioning	3-42	Theft-Deterrent Feature
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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.

Air Conditioning with Temperature Control



Fan Knob

The left knob is used to select the force of air you want. Turn the knob clockwise to increase fan speed and counterclockwise to decrease fan speed. The fan must be turned on for the air conditioning compressor to operate.

Temperature Knob

The center knob controls the temperature of the air coming through the system. Turn it clockwise toward the red area for warmer air. Turn it counterclockwise toward the blue area for cooler air.

Mode Knob

The right knob is used to select the direction of the air flowing into the vehicle.



(Vent): This setting directs air through the instrument panel outlets.



(Bi-Level): This setting directs air into your vehicle in two ways. Cooler air is directed toward your upper body through the instrument panel outlets, while warmer air is directed through the floor ducts.

 **(Floor):** This setting brings in most of the air through the floor ducts. This setting is also used to send air to the rear of the vehicle. Keep the area under the front seats free of objects that could obstruct airflow to the rear of the vehicle.

 **(Defog):** This setting directs air to the windshield and through the floor ducts. Use this mode during cold or inclement weather because of your vehicle's larger windshield area.

 **(Defrost):** This setting directs most of the air to the windshield and side window vents.

Mode Buttons

 **(Outside Air):** Press this button to send outside air into your vehicle. The light in the button will glow when outside air is in use. Using this setting while trying to defrost or defog the windows will help clear the vents of moisture. While floor, defog or defrost mode is selected, the system will automatically go to outside air mode.

 **(Recirculation):** Press this button to limit the amount of outside air entering your vehicle. The light in the button will glow when recirculation is in use. You may use this setting to limit odors entering your vehicle.

Operating the Heating/Ventilation/Air Conditioning (HVAC) system in the recirculation mode may cause fogging of the vehicle's windows when the weather is cold and damp. To clear the fog, switch the HVAC system to either the defog or defrost mode and increase the fan speed. To avoid re-fogging of the windows, operate the HVAC system in the outside air mode.

 **A/C (Air Conditioning):** Press this button to turn the air conditioning compressor on and off. The light in the button will glow when the air conditioning is in use.

Air Conditioning with Dual Temperature Control (Option)



Fan Knob

The left knob is used to select the force of air you want. Turn the knob clockwise to increase fan speed and counterclockwise to decrease fan speed. The fan must be turned on for the air conditioning compressor to operate.

Driver's Side Temperature Lever

The lever on the left adjusts the air temperature on the driver's side independent of the temperature set by the passenger. Slide the D lever upward to raise the temperature. Slide the D lever downward to lower the temperature.

Passenger's Side Temperature Lever

The lever on the right adjusts the air temperature on the passenger's side independent of the temperature set by the driver. Slide the P lever upward to raise the temperature. Slide the P lever downward to lower the temperature.

Mode Knob

The right knob is used to select the direction of the air flowing into the vehicle.



(Vent): This setting directs air through the instrument panel outlets.



(Bi-Level): This setting directs air into your vehicle in two ways. Cooler air is directed toward your upper body through the instrument panel outlets, while warmer air is directed through the floor ducts.

 **(Floor):** This setting brings in most of the air through the floor ducts. This setting is also used to send air to the rear of the vehicle. Keep the area under the front seats free of objects that could obstruct airflow to the rear of the vehicle.

 **(Defog):** This setting directs air to the windshield and through the floor ducts. Use this mode during cold or inclement weather because of your vehicle's larger windshield area.

 **(Defrost):** This setting directs most of the air to the windshield and side window vents.

Mode Buttons

 **(Outside Air):** Press this button to send outside air into your vehicle. The light in the button will glow when outside air is in use. Using this setting while trying to defrost or defog the windows will help clear the vents of moisture. While floor, defog or defrost mode is selected, the system will automatically go to outside air mode.

 **(Recirculation):** Press this button to limit the amount of outside air entering your vehicle. The light in the button will glow when recirculation is in use. You may use this setting to limit odors entering your vehicle.

Operating the Heating/Ventilation/Air Conditioning (HVAC) system in the recirculation mode may cause fogging of the vehicle's windows when the weather is cold and damp. To clear the fog, switch the HVAC system to either the defog or defrost mode and increase the fan speed. To avoid re-fogging of the windows, operate the HVAC system in the outside air mode.

 **A/C (Air Conditioning):** Press this button to turn the air conditioning compressor on and off. The light in the button will glow when the air conditioning is in use.

Air Conditioning

On very hot days, your vehicle will cool down more quickly and economically if you open the windows long enough to let hot, inside air escape. For all settings, adjust the temperature control and fan speed as desired.

To get maximum cooling or a quick cool-down on very hot days, press the A/C and recirculation buttons and move the temperature control toward the blue area. Adjust the mode knob to direct the air to the desired location. This setting should not be used for long periods of time because the air may become too cold and dry. Push the A/C button again to turn off the air conditioning.

When the air conditioner compressor is on, you may sometimes notice slight changes in your vehicle's engine performance and power. This is normal. The system is designed to help fuel economy while it maintains the desired cooling level.

The air conditioner removes moisture from the air, so you may sometimes notice water dripping from under your vehicle's engine compartment when it is idling or after it has been turned off. This is normal.

Heating

Move the temperature control toward the red area to warm the air.

In the floor mode, outside air will be brought in and sent through the floor ducts. The heater works best if you keep your windows closed while using it.

The bi-level setting is designed for use on sunny days when the air is only moderately warm or cool. On days like these, the sun may adequately warm your upper body, but your lower body may not be warm enough. For the best results, move the temperature control to the middle position, and then adjust it for comfort.

Your vehicle has a computer controlled transaxle designed to warm up the engine faster when the outside temperature is 35°F (2°C) or colder. You may notice that the transaxle will shift at a higher vehicle speed until the engine is warmed up. This is a normal condition designed to provide heat to the passenger compartment and defrost the windows more quickly.

If you have the optional engine coolant heater and use it during cold weather, 0°F (-18°C) or lower, your heating system will provide heat more quickly because the engine coolant is already warmed. See "Engine Coolant Heater" in the Index.

Defogging and Defrosting

To rapidly defrost the windshield, move the temperature control to the red area and turn the mode knob to defrost. Adjust the fan to the highest speed.

To keep the windshield clear and bring in heated air through the floor ducts, turn the mode knob to defog.

When the temperature outside is above freezing, the air conditioner compressor will run in these settings to help remove moisture from the air.

Your vehicle is equipped with side window defogger vents located on the top of the instrument panel. For additional side window defogging, turn the mode knob to the bi-level setting and adjust the fan to the highest speed. Aim the side vents on the instrument panel toward the side windows. For increased airflow to the side vents, close the center vents.

Operating the HVAC system in the recirculation mode may cause fogging of the vehicle's windows when the weather is cold and damp. To clear the fog, switch the HVAC system to either the defog or defrost mode and increase the fan speed. To avoid re-fogging of the windows, operate the HVAC system in the outside air mode.

For additional information, refer to "Recirculation" earlier in this section.

Rear Window Defogger



Press the REAR button to warm the defogger grid on the rear window. The engine must be running for the defogger grid to warm up.

The system will turn off automatically after about 10 minutes of use. If you turn it on again, the defogger will operate for about five minutes. You can also turn the defogger off by turning the ignition to OFF or by pressing the button again.

Do not attach a temporary vehicle license across the defogger grid on the rear window.

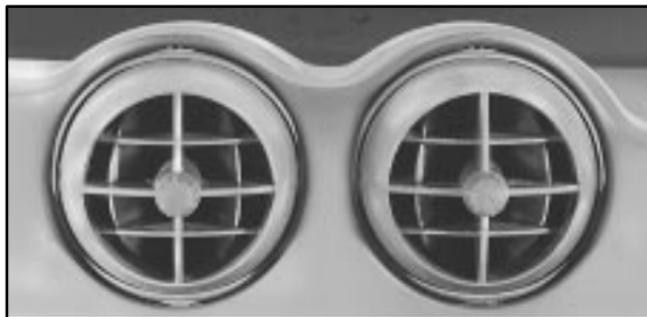
NOTICE:

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, and the repairs wouldn't be covered by your warranty.

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 fan is running.

Your vehicle has air outlets that allow you to adjust the direction and amount of airflow inside the vehicle. Push the outlet up or down to direct the airflow to your preference. Increase or reduce the amount of air flow by turning the knob, located on the front of the vents, clockwise to close or counterclockwise to open the louvers. Opening and closing the louvers will also direct airflow from side to side.



Ventilation Tips

- Keep the hood and front air inlet free of ice, snow or any other obstruction (such as leaves). This will allow the heater and defroster to work much better, reducing the chance of fogging the inside of your windows.
- When you enter a vehicle in cold weather, turn the fan knob to 5, the highest setting, for a few moments before driving off. This helps clear the intake ducts of snow and moisture, and reduces the chance of fogging the inside of your windows.
- Keep the area around the base of the center instrument panel console and the air path under the front seats clear of objects. This helps air to circulate throughout your vehicle.

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 of its controls to be sure you're getting the most out of the advanced engineering that went into it.

Your vehicle has a feature called Retained Accessory Power (RAP). With RAP, you can play your audio system even after the ignition is turned off. See "Retained Accessory Power (RAP)" in the Index.

Setting the Clock

Your radio may have a button marked with an H or HR to represent hours and an M or MIN to represent minutes.

Press and hold the hour button until the correct hour appears. AM will appear on the display for morning hours. Press and hold the minute button until the correct minute appears. The clock may be set with the ignition on or off.

To set the clock to the time of an FM station broadcasting Radio Data System (RDS) information, press and hold the hour and minute buttons at the same time until TIME UPDATED appears on the display. If the time is not available from the station, NO UPDATE will appear on the display instead.

AM-FM Stereo with Compact Disc Player with Programmable Equalization and Radio Data System (RDS)



Playing the Radio

PWR (Power): Push this knob to turn the system on and off.

VOL (Volume): Turn the knob clockwise to increase volume. Turn it counterclockwise to decrease volume.

SCV (Speed-Compensated Volume): With SCV, your audio system adjusts automatically to make up for road and wind noise as you drive. Set the volume at the desired level. Press this button to select MIN, MED or MAX. Each higher choice allows for more volume compensation at faster vehicle speeds. Then, as you drive, SCV automatically increases the volume, as necessary, to overcome noise at any speed. The volume level should always sound the same to you as you drive. If you don't want to use SCV, select OFF.

RCL (Recall): Push this knob to display the station being played and to display the clock. Pushing this knob with the ignition off will display the clock.

Finding a Station

BAND: Press this button to switch between AM, FM1 and FM2. The display shows your selection.

TUNE: Turn this knob to choose radio stations.

△ **SEEK** ▽: Press the up or down arrow to go to the next or previous station and stay there. The sound will mute while seeking.

△ **SCAN** ▽: Press and hold one of the SCAN arrows for two seconds until SCAN appears on the display and you hear a beep. The radio will go to a station, play for a few seconds, then go on to the next station. Press one of the SCAN arrows again to stop scanning. The sound will mute while scanning.

To scan preset stations, press and hold one of the SCAN arrows for more than four seconds until PSCAN and the preset number appear on the display. You will hear a double beep. The radio will go to the first preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. This feature will only scan the six presets that are in the selected band. Press one of the SCAN arrows again to stop scanning presets. The radio will scan preset stations with a strong signal only. The sound will mute while scanning.

Setting Preset Stations

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) by performing the following steps:

1. Turn the radio on.
2. Press BAND to select AM, FM1 or FM2.
3. Tune in the desired station.
4. Press EQ to select the equalization.
5. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the station you set will return and the equalization that you selected will also be automatically selected for that pushbutton.
6. Repeat the steps for each pushbutton.

Setting the Tone (Bass/Treble)

TONE: Press and release this button until BASS, MID or TREB appears on the display. The SELECT LED indicator will light to show that the tone control can be adjusted. When adjusting BASS, MID or TREB, turn the SELECT knob clockwise to increase or counterclockwise to decrease. If a station is weak or noisy, you may want to decrease the treble.

To adjust all of the tone controls to the middle position, press and hold TONE until FLAT appears on the display.

EQ (Equalizer): This feature allows you to choose preset bass, mid and treble equalization settings designed for different program types. Press EQ to select the desired preset equalization setting. Each time you press EQ, another setting will appear on the display.

You can preset up to six equalization settings by performing the following steps:

1. Turn the radio on.
2. Use the TONE button and the SELECT knob to select the desired equalization.
3. Press and hold EQ for two seconds. SELECT EQ # will appear on the display. The EQ symbol will flash.
4. Press EQ or turn the SELECT knob to select the desired EQ number. Each time you press EQ or turn the SELECT knob, another EQ setting will appear on the display.
5. Press and hold the EQ button or push the SELECT knob to store the equalization preset. You will hear a beep and EQ SAVED will appear on the display.
6. Repeat the steps for each EQ setting.

EQ 5 has been programmed at the factory for use with talk radio, but it can be preset to a different tone.

Adjusting the Speakers (Balance/Fade)

BAL (Balance): Press and release this button until BAL appears on the display. The SELECT LED indicator will light to show that the speakers can be adjusted. Turn the SELECT knob to move the sound to the left or right speakers. The middle position balances the sound between the speakers.

FADE: Press and release this button until FADE appears on the display. The SELECT LED indicator will light to show that the speakers can be adjusted. Turn the SELECT knob to move the sound to the front or rear speakers. The middle position balances the sound between the speakers.

Pressing and holding the BAL FADE button for two seconds will return all speaker settings to the middle position.

Using RDS

Your audio system is equipped with a Radio Data System (RDS). RDS is a system that receives data along with the audio of the FM station you are currently tuned to. You can use RDS to display program information and to control your radio. With RDS, the radio can do the following:

- 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, and
- receive and display messages from radio stations.

RDS is always on. RDS features are only available for use on FM stations which broadcast RDS information. The RDS features of your radio rely upon receiving specific RDS information from these stations. These features will only work when the RDS information is available. In rare cases, a radio station may broadcast incorrect information that will cause the radio features to work improperly. If this happens, contact the radio station.

When you are tuned to an RDS station, the station name will appear on the display, instead of the frequency. Most RDS stations provide their station name, the time of day and a Program Type (PTY) for their current programming. Some stations also provide the name of the current program.

Finding a PTY Station

PROG TYPE (Program Type): This button is used to turn on and off Program Type (PTY) select. P-TYPE will appear on the display and the SELECT LED indicator will light. The last selected PTY will appear on the display for five seconds. Turn the SELECT knob to select the PTY you want to listen to. Press the SEEK up arrow and the radio will search for an RDS station that is broadcasting the PTY that you have selected. The last PTY selected will be used for seek or scan modes. When the SELECT LED indicator is on and a PTY is not displayed, the first time seek is pressed, the last selected PTY will be displayed. Press the SEEK up arrow again to seek. If a station with the selected PTY is not found, NOT FOUND will appear on the display.

To use the PTY interrupt feature, press and hold PROG TYPE until you hear a beep on the PTY you want to interrupt. An asterisk will appear next to the PTY name, for example (CLASSICAL*). The radio will also display brackets around the PTY when the PTY interrupt is active. To disable the PTY interrupt, select the interrupt format and press and hold the PROG TYPE button until you hear a beep. The asterisk will be removed from the display and so will the brackets. When you are listening to a compact disc, the last selected RDS FM station will interrupt play if that selected PTY format is broadcast.

BAND (Alternate Frequency): Alternate frequency allows the radio to switch to a stronger station with the same programming. Press and hold BAND for two seconds to turn alternate frequency on. AF ON will appear on the display. The radio may switch to stronger stations. Press and hold BAND again for two seconds to turn alternate frequency off. AF OFF will appear on the display. The radio will not switch to other stations.

Setting Preset PTY Stations

The six numbered pushbuttons let you return to your favorite Program Types (PTYs). These pushbuttons have factory PTY presets. You can set up to 12 PTYs (six FM1 and six FM2) by performing the following steps:

1. Press BAND to select FM1 or FM2.
2. Press PROG TYPE, if it is not already on.
3. Turn the SELECT knob to select a PTY.
4. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the PTY you set will return.
5. Repeat the steps for each pushbutton.

RDS Messages

ALERT!: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. ALERT! appears on the display when an alert announcement plays. When an alert announcement comes on the current radio station, you will hear it, even if the volume is muted or a compact disc is playing. If the compact disc player is playing, play will stop for the announcement and resume when the announcement is finished.

This function will only work during actual emergency broadcasts, and will not work during tests of the emergency broadcast system. This feature is not supported by all RDS stations.

INFO (Information): If the current station has a message, INFO will appear on the display. These text messages are from the RDS broadcaster to the listening public and may be general information such as artist and song title, call in phone numbers, etc. Press 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 scroll through the message at your own speed press the INFO button again for less than one second. A new group of words will appear on the display. Once the complete message has been displayed, INFO will disappear from the display until another new message is received.

The old message can be displayed by pressing the INFO button until a new message is received or a different station is tuned to. If the INFO button is pressed when INFO is not displayed and an old message has not been stored by the radio, the radio will display NO INFO.

TRAF (Traffic): Press this button to receive traffic announcements. The traffic announcement brackets will appear on the display. TRAF will appear on the display if the current station broadcasts traffic announcements. If the current station does not broadcast traffic announcements, the radio will seek to a station that does. When the radio finds a station that broadcasts traffic announcements, it will stop. TRAF will appear on the display. If no station is found, NO TRAFFIC will appear on the display.

Your radio can be programmed to interrupt the playback of a CD or FM radio by enabling the traffic interrupt feature. Press the TRAF button once to turn on the traffic feature, if supported by the current RDS station. If the station does not support the traffic interrupt feature, the radio will search for an RDS station that does support the feature. When the traffic interrupt feature is on, TRAF will appear on the display.

When a traffic announcement comes on the current radio station or a related network station, you will hear it, even if the volume is muted or a compact disc is playing. If the compact disc player was being used, the compact disc will stay in the player and resume play at the point where it stopped.

Radio Messages

CALIBRATE: Your audio system has been calibrated for your vehicle from the factory. If CALIBRATE appears on the display, it means that your radio has not been configured properly for your vehicle and must be returned to the dealership for service.

Playing a Compact Disc

With the ignition on, insert a disc partway into the slot, label side up. The player will pull it in and the disc should begin playing. If you want to insert a CD when the ignition is off, first press the eject symbol or push the RCL knob. If you insert a CD with the radio off and the ignition on, it will start to play.

When the disc is inserted, the CD symbol will be displayed. If you select an EQ setting for your CD, it will be activated each time you play a CD.

As each new track starts to play, the track number will appear on the display.

If an error appears on the display, see “Compact Disc Messages” later in this section.

▷▷ 1 (Forward): Press and hold this pushbutton to advance quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

RDM 3 (Random): Press this pushbutton to hear the tracks in random, rather than sequential, order. RDM and the track number will appear on the display.

4 ◀◀ (Reverse): Press and hold this pushbutton to reverse quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

EQ (Equalizer): Press EQ to select the desired preset equalization setting while playing a compact disc. The equalization will be automatically set whenever you play a compact disc. See “EQ” listed previously for more information.

△ SEEK ▽: Press the down arrow while playing a CD to go to the start of the current track if more than eight seconds have played. Press the up arrow to go to the next track. If you hold the button or press it more than once, the player will continue moving backward or forward through the disc.

△ SCAN ▽: Press and hold one of the SCAN arrows for more than two seconds until SCAN appears on the display and you hear a beep. The disc will go to the next track, play for a few seconds, then go on to the next track. Press this button again to stop scanning. The sound will mute while scanning. SCAN and the track number will appear on the display.

RCL (Recall): Push this button to see how long the current track has been playing. To change what is normally shown on the display (track or elapsed time), push the button until you see the display you want, then hold the button until the display flashes. While elapsed time is showing, CD TIME will appear on the display.

BAND: Press this button to listen to the radio when a CD is playing. The inactive CD will remain safely inside the radio for future listening.

CD AUX (Auxiliary): Press this button to play a compact disc when listening to the radio. CD will appear on the display when a compact disc is loaded.

⏏ (Eject): Press this button to eject a CD. Eject may be activated with either the ignition or radio off. CDs may be loaded with the radio and ignition off if this button is pressed first.

Compact Disc Messages

CHECK CD: If this message appears on the radio display and the disc comes out, it could be for one of the following reasons:

- The road is too rough. The disc should play when the road is smoother.
- The disc is dirty, scratched, wet or upside down.
- The air is very humid. If so, wait about an hour and try again.

If the CD is not playing correctly, for any other reason, try a known good CD.

If any error occurs repeatedly or if an error can't be corrected, contact your dealer. If your radio displays an error message, write it down and provide it to your dealer when reporting the problem.

AM-FM Stereo with Cassette Tape and Compact Disc Player with Programmable Equalization and Radio Data System (RDS) (If Equipped)



Playing the Radio

PWR (Power): Push this knob to turn the system on and off.

VOL (Volume): Turn the knob clockwise to increase volume. Turn it counterclockwise to decrease volume.

SCV (Speed-Compensated Volume): With SCV, your audio system adjusts automatically to make up for road and wind noise as you drive. Set the volume at the desired level. Press this button to select MIN, MED or MAX. Each higher choice allows for more volume compensation at faster vehicle speeds. Then, as you drive, SCV automatically increases the volume, as necessary, to overcome noise at any speed. The volume level should always sound the same to you as you drive. If you don't want to use SCV, select OFF.

RCL (Recall): Push this knob to display the station being played or to display the clock. Pushing this knob with the ignition off will display the clock.

Finding a Station

BAND: Press this button to switch between AM, FM1 and FM2. The display shows your selection.

TUNE: Turn this knob to choose radio stations.

△ **SEEK** ▽: Press the up or down arrow to go to the next or previous station and stay there. The radio will seek to stations with a strong signal only. The sound will mute while seeking.

△ **SCAN** ▽: Press and hold one of the SCAN arrows for two seconds until SCAN appears on the display and you hear a beep. The radio will go to a station, play for a few seconds, then go on to the next station. Press one of the SCAN arrows again to stop scanning. The radio will scan to stations with a strong signal only. The sound will mute while scanning.

To scan preset stations, press and hold one of the SCAN arrows for more than four seconds until PSCAN and the preset number appear on the display. You will hear a double beep. The radio will go to the first preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. This feature will only scan the six presets that are in the selected band. Press one of the SCAN arrows again to stop scanning presets. The radio will scan preset stations with a strong signal only. The sound will mute while scanning.

Setting Preset Stations

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) by performing the following steps:

1. Turn the radio on.
2. Press BAND to select AM, FM1 or FM2.
3. Tune in the desired station.
4. Press EQ to select the equalization.
5. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the station you set will return and the equalization that you selected will also be automatically selected for that pushbutton.
6. Repeat the steps for each pushbutton.

Setting the Tone (Bass/Treble)

TONE: Press and release this button until BASS, MID or TREB appears on the display. The SELECT LED indicator will light to show that the tone control can be adjusted. When adjusting BASS, MID or TREB, turn the SELECT knob clockwise to increase or counterclockwise to decrease. If a station is weak or noisy, you may want to decrease the treble.

To adjust all of the tone controls to the middle position, press and hold TONE until FLAT appears on the display.

EQ (Equalizer): This feature allows you to choose preset bass, mid and treble equalization settings designed for different program types. Press EQ to select the desired preset equalization setting. Each time you press EQ, another setting will appear on the display.

You can preset up to six equalization settings by performing the following steps:

1. Turn the radio on.
2. Use the TONE button and the SELECT knob to select the desired equalization.
3. Press and hold EQ for two seconds. SELECT EQ # will appear on the display. The EQ symbol will flash.
4. Press EQ or turn the SELECT knob to select the desired EQ number. Each time you press EQ or turn the SELECT knob, another EQ setting will appear on the display.
5. Press and hold the EQ button or push the SELECT knob to store the equalization preset. You will hear a beep and EQ SAVED will appear on the display.
6. Repeat the steps for each EQ setting.

EQ 5 has been programmed at the factory for use with talk radio, but it can be preset to a different tone.

Adjusting the Speakers (Balance/Fade)

BAL (Balance): Press and release this button until BAL appears on the display. The SELECT LED indicator will light to show that the speakers can be adjusted. Turn the SELECT knob to move the sound to the left or right speakers. The middle position balances the sound between the speakers.

FADE: Press and release this button until FADE appears on the display. The SELECT LED indicator will light to show that the speakers can be adjusted. Turn the SELECT knob to move the sound to the front or rear speakers. The middle position balances the sound between the speakers.

Pressing and holding the BAL FADE button for two seconds will return all tone settings to flat regardless of tone selected. FLAT will appear on the display.

Using RDS

Your audio system is equipped with a Radio Data System (RDS). RDS is a system that receives data along with the audio of the FM station you are currently tuned to. You can use RDS to display program information and to control your radio. With RDS, the radio can do the following:

- 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, and
- receive and display messages from radio stations.

RDS is always on. RDS features are only available for use on FM stations which broadcast RDS information. The RDS features of your radio rely upon receiving specific RDS information from these stations. These features will only work when the RDS information is available. In rare cases, a radio station may broadcast incorrect information that will cause the radio features to work improperly. If this happens, contact the radio station.

When you are tuned to an RDS station, the station name will appear on the display, instead of the frequency. Most RDS stations provide their station name, the time of day and a Program Type (PTY) for their current programming. Some stations also provide the name of the current program.

Finding a PTY Station

PROG TYPE (Program Type): This button is used to turn on and off Program Type (PTY) select. P-TYPE will appear on the display and the SELECT LED indicator will light. The last selected PTY will appear on the display for five seconds. Turn the SELECT knob to select the PTY you want to listen to. Press the SEEK up arrow and the radio will search for an RDS station that is broadcasting the PTY that you have selected. The last PTY selected will be used for seek or scan modes. When the SELECT LED indicator is on and a PTY is not displayed, the first time SEEK is pressed, the last selected PTY will be displayed. Press the SEEK up arrow again to seek. If a station with the selected PTY is not found, NOT FOUND will appear on the display.

To use the PTY interrupt feature, press and hold PROG TYPE until you hear a beep on the PTY you want to interrupt. An asterisk will appear next to the PTY name, example (CLASSICAL*). The radio will also display brackets around the PTY when the PTY interrupt is active. To disable the PTY interrupt, select the interrupt format and press and hold the PROG TYPE button until you hear a beep. The asterisk will be removed from the display and so will the brackets. When you are listening to a cassette tape or a compact disc, the last selected RDS FM station will interrupt play if that selected PTY format is broadcast.

BAND (Alternate Frequency): Alternate frequency allows the radio to switch to a stronger station with the same programming. Press and hold BAND for two seconds to turn alternate frequency on. AF ON will appear on the display. The radio may switch to stronger stations. Press and hold BAND again for two seconds to turn alternate frequency off. AF OFF will appear on the display. The radio will not switch to other stations.

Setting Preset PTY Stations

The six numbered pushbuttons let you return to your favorite Program Types (PTYs). These pushbuttons have factory PTY presets. You can set up to 12 PTYs (six FM1 and six FM2) by performing the following steps:

1. Press BAND to select FM1 or FM2.
2. Press PROG TYPE, if it is not already on.
3. Turn the SELECT knob to select a PTY.
4. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the PTY you set will return.
5. Repeat the steps for each pushbutton.

RDS Messages

ALERT!: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. ALERT! appears on the display when an alert announcement plays. When an alert announcement comes on the current radio station, you will hear it, even if the volume is muted or a cassette tape or a compact disc is playing. If the cassette tape or compact disc player is playing, play will stop for the announcement and resume when the announcement is finished.

This function will only work during actual emergency broadcasts, and will not work during tests of the emergency broadcast system. This feature is not supported by all RDS stations.

INFO (Information): If the current station has a message, INFO will appear on the display. These text messages are from the RDS broadcaster to the listening public and may be general information such as artist and song title, call in phone numbers, etc. Press 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 scroll through the message at your own speed press the INFO button again for less than one second. A new group of words will appear on the display. Once the complete message has been displayed, INFO will disappear from the display until another new message is received.

The old message can be displayed by pressing the INFO button until a new message is received or a different station is tuned to. If the INFO button is pressed when INFO is not displayed and an old message has not been stored by the radio, the radio will display NO INFO.

TRAF (Traffic): Press this button to receive traffic announcements. The traffic announcement brackets will appear on the display. TRAF will appear on the display if the current station broadcasts traffic announcements. If the current station does not broadcast traffic announcements, the radio will seek to a station that does. When the radio finds a station that broadcasts traffic announcements, it will stop. TRAF will appear on the display. If no station is found, NO TRAFFIC will appear on the display.

Your radio can be programmed to interrupt the playback of a CD, cassette or FM radio by enabling the traffic interrupt feature. Press the TRAF button once to turn on the traffic feature, if supported by the current RDS station. If the station does not support the traffic interrupt feature, the radio will search for an RDS station that does support the feature. When the traffic interrupt feature is on, TRAF will appear on the display.

When a traffic announcement comes on the current radio station or a related network station, you will hear it, even if the volume is muted or a cassette tape or a compact disc is playing. If the cassette tape or compact disc player was being used, the cassette tape or compact disc will stay in the player and resume play at the point where it stopped.

Radio Messages

CALIBRATE: Your audio system has been calibrated for your vehicle from the factory. If CALIBRATE appears on the display, it means that your radio has not been configured properly for your vehicle and must be returned to the dealership for service.

Playing a Cassette Tape

Your tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in this player. The longer side with the tape visible should face to the right. If the ignition is on, but the radio is off, the tape can be inserted and will begin playing. If you hear nothing but a garbled sound, the tape may not be in squarely. Press the eject button to remove the tape and start over.

While the tape is playing, use the VOL, BAL, FADE, TONE, EQ and SEEK controls just as you do for the radio. The display will show TAPE and an arrow showing which side of the tape is playing. The tape player automatically begins playing the other side when it reaches the end of the tape.

Your tape bias is set automatically when a metal or chrome tape is inserted. If you want to insert a tape when the ignition is off, first press the eject button or push the RCL knob.

If an error appears on the display, see “Cassette Tape Messages” later in this section.

▷▷ 1 (Forward): Press this pushbutton to advance quickly to another part of the tape. Press this pushbutton again to return to playing speed. The radio will play the last selected station while the tape advances. You may select stations during forward operation by using TUNE.

While in forward mode, the display will show **FREQ** and **FWD** and two right arrows. If the radio is playing a RDS station, the display will only show **FREQ**.

▽△ 2 (Side): Press this pushbutton to play the other side of the tape.

4 ◀◀ (Reverse): Press this pushbutton to reverse the tape rapidly. Press it again to return to playing speed. The radio will play the last selected station while the tape reverses. You may select stations during reverse operation by using TUNE.

6 □□ (Dolby): Press this pushbutton to reduce background noise. **DOLBY NR ON** will appear on the display. Press it again to turn Dolby NR off.

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.

EQ (Equalizer): Press **EQ** to select the desired preset equalization setting while playing a cassette. The equalization will be automatically set whenever you play a cassette tape. See “EQ” listed previously for more information.

△ SEEK ▽: Press the up or down arrow to search for the next or previous selection on the tape. Your tape must have at least three seconds of silence between each selection for seek to work. You can skip nine selections up or down on the tape. Choose how many selections you want to skip. Press the **SEEK** arrow that many times. The number of selections to be skipped will appear on the display.

△ **SCAN** ▽: Press and hold one of the SCAN arrows for more than two seconds until SCAN appears on the display and you hear a beep. The tape will go to the next selection, play for a few seconds, then go on to the next selection. Press this button again to stop scanning. The sound will mute and SCAN will appear on the display while scanning. The tape will scan in forward only.

BAND: Press this button to listen to the radio when a tape is playing. The tape will stop but remain in the player. The inactive tape or CD will remain safely inside the radio for future listening.

CD TAPE: Press this button to switch between playing a cassette tape and a compact disc, if both are loaded, when listening to the radio. The display will show tape and CD icons.

⏏ (**Eject**): Press this button, located next to the cassette tape slot, to eject a tape. Eject may be activated with either the ignition or radio off. Cassettes may be loaded with the radio and ignition off if this button is pressed first.

Cassette Tape Messages

If an error occurs while trying to play a cassette tape, it could be for one of the following reasons:

TIGHT TAPE: This message is displayed when the tape is tight and the player can't turn the tape hubs. Remove the tape. Hold the tape with the open end down and try to turn the right hub counterclockwise with a pencil. Turn the tape over and repeat. If the hubs do not turn easily, your tape may be damaged and should not be used in the player. Try a new tape to make sure your player is working properly.

BROKEN TAPE: This message is displayed when the tape is broken. Try a new tape.

WRAPPED TAPE: This message is displayed when the tape is wrapped around the tape head. Attempt to get the cassette out. Try a new tape.

CLEAN PLAYER: 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.

If any error occurs repeatedly or if an error can't be corrected, contact your dealer. If your radio displays an error message, write it down and provide it to your dealer when reporting the problem.

CD Adapter Kits

It is possible to use a portable CD player adapter kit with your cassette tape player after disabling the tight/loose tape sensing feature on your tape player.

To disable the feature, use the following steps:

- Turn the ignition to ON or ACCESSORY.
- Turn the radio off.
- Press and hold the CD TAPE button. The radio will display READY and flash the cassette symbol.
- Insert the adapter into the cassette slot. It will power up the radio and begin playing.

This override routine will remain active until the eject button is pressed.

Playing a Compact Disc

With the ignition on, insert a disc partway into the slot, label side up. The player will pull it in and the disc should begin playing. If you want to insert a CD when the ignition is off, first press the eject symbol or push the RCL knob. If you insert a CD with the radio off and the ignition on, it will start to play.

When the disc is inserted, the CD symbol will be displayed. If you select an EQ setting for your CD, it will be activated each time you play a CD.

As each new track starts to play, the track number will appear on the display.

If an error appears on the display, see “Compact Disc Messages” later in this section.

▶▶ 1 (Forward): Press and hold this pushbutton to advance quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

RDM 3 (Random): Press this pushbutton to hear the tracks in random, rather than sequential, order. RDM and the track number will appear on the display.

4 ◀◀ (Reverse): Press and hold this pushbutton to reverse quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

EQ (Equalizer): Press EQ to select the desired preset equalization setting while playing a compact disc. The equalization will be automatically set whenever you play a compact disc. See “EQ” listed previously for more information.

△ **SEEK** ▽: Press the down arrow while playing a CD to go to the start of the current track if more than eight seconds have played. Press the up arrow to go to the next track. If you hold the button or press it more than once, the player will continue moving backward or forward through the disc.

△ **SCAN** ▽: Press and hold one of the SCAN arrows for more than two seconds until SCAN appears on the display and you hear a beep. The disc will go to the next track, play for a few seconds, then go on to the next track. Press this button again to stop scanning. The sound will mute while scanning. SCAN and the track number will appear on the display.

RCL (Recall): Push this button to see how long the current track has been playing. To change what is normally shown on the display (track or elapsed time), push the button until you see the display you want, then hold the button until the display flashes. While elapsed time is showing, CD TIME will appear on the display.

BAND: Press this button to listen to the radio when a CD is playing.

CD TAPE: Press this button to switch between playing a cassette tape and a compact disc if both are loaded, when listening to the radio. The inactive tape or CD will remain safely inside the radio for future listening. The display will show tape and CD icons.

⏏ (**Eject**): Press this button, located next to the CD slot, to eject a CD. Eject may be activated with either the ignition or radio off. CDs may be loaded with the radio and ignition off if this button is pressed first.

Compact Disc Messages

CHECK CD: If this message appears on the radio display and the disc comes out, it could be for one of the following reasons:

- The road is too rough. The disc should play when the road is smoother.
- The disc is dirty, scratched, wet or upside down.
- The air is very humid. If so, wait about an hour and try again.

If the CD is not playing correctly, for any other reason, try a known good CD.

If any error occurs repeatedly or if an error can't be corrected, contact your dealer. If your radio displays an error message, write it down and provide it to your dealer when reporting the problem.

AM-FM Stereo with Six-Disc Compact Disc Player with Programmable Equalization and Radio Data System (RDS) (If Equipped)



Playing the Radio

PWR (Power): Push this knob to turn the system on and off.

VOLUME: Turn the knob clockwise to increase volume. Turn it counterclockwise to decrease volume.

AUTO VOL (Automatic Volume): Your system has a feature called automatic volume. With this feature, your audio system adjusts automatically to make up for road and wind noise as you drive.

Set the volume at the desired level. Press this button to select MIN, MED or MAX. Each higher choice allows for more volume compensation at faster vehicle speeds. Then, as you drive, automatic volume increases the volume, as necessary, to overcome noise at any speed. The volume level should always sound the same to you as you drive. If you don't want to use automatic volume, select OFF.

RCL (Recall): Push this knob to display the station being played or to display the clock. Pushing this knob with the ignition off will display the clock

Finding a Station

AM FM: Press this button to switch between AM, FM1 and FM2. The display shows your selection.

TUNE: Turn this knob to select radio stations.

◀ **SEEK** ▶: Press the right or left arrow to go to the next or previous station and stay there. The sound will mute while seeking.

◀ **SCAN** ▶: Press and hold either SCAN arrow for two seconds until SC appears on the display and you hear a beep. The radio will go to a station, play for a few seconds, then go on to the next station. Press either SCAN arrow again to stop scanning. If you press SCAN for more than four seconds, the radio will change to preset scan mode. The sound will mute while scanning.

To scan preset stations, press and hold either SCAN arrow for more than four seconds, PRESET SCAN will appear on the display. You will hear a double beep. The radio will go to a preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. Press either SCAN arrow again to stop scanning presets. The sound will mute while scanning.

Setting Preset Stations

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) by performing the following steps:

1. Turn the radio on.
2. Press AM FM to select AM, FM1 or FM2.

3. Tune in the desired station.
4. Press AUTO EQ to select the equalization that best suits the type of station selected.
5. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the station you set will return and the equalization that you selected will also be automatically selected for that pushbutton.
6. Repeat the steps for each pushbutton.

Setting the Tone (Bass/Treble)

AUDIO: Push the AUDIO knob until BASS, MID or TREB appears on the display. Turn the knob to increase or decrease. When you use this knob, the radio's tone setting will switch to custom. If a station is weak or noisy, you may want to decrease the treble.

To adjust bass, midrange or treble to the middle position, select BASS, MID or TREB and push and hold the AUDIO knob. The radio will produce one beep and adjust the display level to zero.

To adjust all tone and speaker controls to the middle position, push and hold the AUDIO knob when no tone or speaker control is displayed. The radio will produce one beep and CENTERED will appear on the display.

AUTO EQ (Automatic Equalization): This feature allows you to choose preset bass, midrange and treble equalization settings designed for country, jazz, talk, pop, rock and classical program types.

The program type last chosen will appear on the display when you first press AUTO EQ. Each time you press this button, another program type will appear on the display and AUTO EQ will switch to one of the preset program types.

To return to the manual mode (CUSTOM), press the AUTO EQ button until CUSTOM appears on the display. Then you will be able to manually adjust the bass, midrange and treble using the AUDIO knob.

Adjusting the Speakers (Balance/Fade)

AUDIO: To adjust the balance between the right and left speakers, push the AUDIO knob until BAL appears on the display. Turn the knob to adjust the sound to the left or right speakers. The middle position balances the sound between the speakers.

To adjust the fade between the front and rear speakers, push and hold the AUDIO knob until FAD appears on the display. Turn the knob to adjust the sound to the front or rear speakers. The middle position balances the sound between the speakers.

To adjust the balance and fade to the middle position, select balance or fade and push and hold the AUDIO knob. The radio will beep once and will adjust the display level to the middle position.

To adjust all tone and speaker controls to the middle position, push and hold the AUDIO knob when tone or speaker controls are not displayed. The radio will produce one beep and CENTERED will appear on the display.

Using RDS

Your audio system is equipped with a Radio Data System (RDS). RDS mode gives you many useful new features. With RDS, the radio can do the following:

- 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, and
- receive and display messages from radio stations.

RDS features are only available for use on FM stations which broadcast RDS information. The RDS features of your radio rely upon receiving specific RDS information from these stations. These features will only work when the RDS information is available. In rare cases, a radio station may broadcast incorrect information that will cause the radio features to work improperly. If this happens, contact the radio station.

When you are tuned to an RDS station, the station name will appear on the display, instead of the frequency. Most RDS stations provide their station name, the time of day and a Program Type (PTY) for their current programming.

Finding a PTY Station

P-TYPE (Program Type): This button is used to turn on and off Program Type (PTY) selections. PTY and the light next to the button will turn on. The last selected PTY will appear on the display for five seconds.

Turn the P-TYPE knob to select the PTY you want to listen to. Press the SEEK arrows to find radio stations for the PTY you want to listen to. The last PTY selected will be used for seek or scan modes. If a station with the selected PTY is not found, NONE FOUND will appear on the display. If both P-TYPE and TRAF are on, the radio will search for stations with traffic announcements and the selected PTY.

To use the PTY interrupt feature, press and hold the P-TYPE button until you hear a beep on the PTY you want to interrupt on. When you are listening to a compact disc, the last selected RDS FM station will interrupt play if that selected program type format is broadcast.

AM FM (Alternate Frequency): Alternate frequency allows the radio to switch to a stronger station with the same program type. Press and hold AM FM for two seconds to turn alternate frequency on. AF ON will appear on the display. The radio may switch to stronger stations. Press and hold AM FM again for two seconds to turn alternate frequency off. AF OFF will appear on the display. The radio will not switch to other stations. When you turn the ignition off and then on again, the alternate frequency feature will automatically be turned on.

Setting PTY Preset Stations

The six numbered pushbuttons let you return to your favorite PTYs. These buttons have factory PTY presets. You can set up to 12 PTYs (six FM1 and six FM2) by performing the following steps:

1. Press AM FM to select FM1 or FM2.
2. Press the P-TYPE button to activate program type mode.
3. Turn the P-TYPE knob to select a PTY.
4. Press and hold one of the six numbered pushbuttons until you hear a beep. Whenever you press that numbered pushbutton, the PTY you set will return.
5. Repeat the steps for each pushbutton.

RDS Messages

ALERT!: This type of announcement warns of national or local emergencies. You will not be able to turn off alert announcements. ALERT! appears on the display when an alert announcement plays. When an alert announcement comes on the current radio station, you will hear it, even if the volume is muted or a compact disc is playing. If the compact disc player is playing, play will stop for the announcement and resume when the announcement is finished.

INFO (Information): If the current station has a message, INFO will appear on the display. Press 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, INFO will disappear from the display until another new message is received.

TRAF (Traffic): Press this button to receive traffic announcements. The traffic announcement brackets will appear on the display. TRAF will appear on the display if the current station broadcasts traffic announcements. If the current station does not broadcast traffic announcements, the radio will seek to a station that does. When the radio finds a station that broadcasts traffic announcements, it will stop. If no station is found, NONE FOUND will appear on the display.

When a traffic announcement comes on the current radio station or a related network station, you will hear it, even if the volume is muted or a compact disc is playing. If the compact disc player was being used, the compact disc will stay in the player and resume play at the point where it stopped.

Playing a Compact Disc

If an error appears on the display, see “Compact Disc Messages” later in this section.

LOAD CD  : Press the LOAD side of this button to load CDs into the compact disc player. This compact disc player will hold up to six discs.

To insert one disc, do the following:

1. Turn the ignition on.
2. Press and release the LOAD side of the LOAD CD button.

3. Wait for the light, located to the right of the slot, to turn green.
4. Load a disc. Insert a disc partway into the slot, label side up. The player will pull the disc in.

When a disc is inserted, the CD symbol will be displayed. If you select an equalization setting for your disc, it will be activated each time you play a disc.

If the radio is on or off, the disc will begin to play automatically.

To insert multiple discs, do the following:

1. Turn the ignition on.
2. Press and hold the LOAD side of the LOAD CD button for two seconds.

You will hear a beep and the light, located to the right of the slot, will begin to flash.

3. Once the light stops flashing and turns green, load a disc. Insert a disc partway into the slot, label side up. The player will pull the disc in.

Once the disc is loaded, the light will begin flashing again. Once the light stops flashing and turns green you can load another disc. The disc player takes up to six discs. Do not try to load more than six.

To load more than one disc but less than six, complete Steps 1 through 3. When you have finished loading discs, with the radio on or off, press the LOAD side of the LOAD CD button to cancel the loading function. The radio will begin to play the last CD loaded.

When a disc is inserted, the CD symbol will be displayed. If more than one disc has been loaded, a number for each disc will be displayed. If you select an equalization setting for your disc, it will be activated each time you play a disc.

If the radio is on or off, the last disc loaded will begin to play automatically.

As each new track starts to play, the track number will appear on the display.

Playing a Specific Loaded Compact Disc

For every CD loaded, a number will appear on the radio display. To play a specific CD, first press the CD AUX button to start playing a CD. Then press the numbered pushbutton that corresponds to the CD you want to play. A small bar will appear under the CD number that is playing, and the track number will appear.

If an error appears on the radio display, see “Compact Disc Messages” later in this section.

LOAD CD  (Eject): The CD eject side of this button will eject a disc or discs, if you have multiple discs loaded. To eject a disc or discs from the disc player, perform one of the following steps:

- Press and release the CD eject side of the LOAD CD button to eject the disc that is currently playing, or
- to eject all of the discs, press the CD eject side of the LOAD CD button for two seconds, you will hear a beep, and the light will flash to let you know when a disc is being ejected.

When the CD eject side of the LOAD CD button is pressed, the receiver will eject the disc and REMOVE CD will be displayed. You can now remove the disc. If the disc is not removed, after 25 seconds, the disc will be automatically pulled back into the receiver. If you try to push the disc back into the receiver, before the 25 second time period is complete, the receiver will sense an error and will try to eject the disc several times before stopping.

Do not repeatedly press the CD eject side of the LOAD CD eject button to eject a disc after you have tried to push it in manually. The receiver's 25-second eject timer will reset at each press of eject, which will cause the receiver to not eject the disc until the 25-second time period has elapsed.

Once the player stops and the disc is ejected, remove the disc. After removing the disc, press the PWR knob off and then on again. This will clear the disc-sensing feature and enable discs to be loaded into the player again.

◀ **REV (Reverse)**: Press and hold this button to reverse quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

FWD ▶ (Forward): Press and hold this button to advance quickly within a track. You will hear sound at a reduced volume. Release it to play the passage. The display will show elapsed time.

RPT (Repeat): With repeat, you can repeat one track or an entire disc. To use repeat, do the following:

- To repeat the track you are listening to, press and release the RPT button. RPT will appear on the display. Press RPT again to turn it off.
- To repeat the disc you are listening to, press and hold the RPT button for two seconds. RPT will appear on the display. Press RPT again to turn it off.

RDM (Random): With random, you can listen to the tracks in random, rather than sequential order, on one disc or on all of the discs. To use random, do one of the following:

- To play the tracks on the disc you are listening to in random order, press and hold RDM for more than two seconds. You will hear a beep and RANDOM ONE will appear on the display. Press RDM again to turn it off.
- Press and release the RDM button to play the tracks on all of the discs that are loaded, in random order. RANDOM ALL will appear on the display. Press RDM to turn it off.

AUTO EQ (Automatic Equalization): Press AUTO EQ to select the desired preset equalization setting while playing a compact disc. The equalization will be automatically set whenever you play a compact disc. See “AUTO EQ” listed previously for more information.

◀**SEEK**▶: To seek, press the left arrow while playing a CD to go to the start of the current track, if more than 10 seconds have passed. Press the right arrow to go to the next track. If you press the button more than once, the player will continue moving backward or forward through the disc.

◀SCAN ▶: To scan one disc, press and hold either SCAN arrow for more than two seconds until SCAN appears on the display and you hear a beep. Use this feature to listen to each track of the currently selected disc for 10 seconds. The sound will mute while scanning. SCAN will appear on the display. Press either SCAN arrow again, to stop scanning.

To scan all loaded discs, press and hold either SCAN arrow for more than four seconds until DISC SCAN appears on the display and you hear a beep. Use this feature to listen to the first track for 10 seconds for each disc loaded. The sound will mute while scanning to the next track. DISC SCAN will appear on the display. Press either SCAN arrow again, to stop scanning.

P-TYPE (Program Type): Push this knob to see how long the current track has been playing. To change what is normally shown on the display (track or elapsed time), push the knob until you see the display you want, then hold the knob until the display flashes.

AM FM: Press this button to play the radio when a disc(s) is in the player.

Using Song List Mode

The integrated six-disc CD changer has a feature called song list. This feature is capable of saving 20 track selections.

To save tracks into the song list feature, perform the following steps:

1. Turn the disc player on and load it with at least one disc. See “LOAD CD” listed previously in this section for more information.
2. Check to see that the disc changer is not in song list mode. S-LIST should not appear in the display. If S-LIST is present, press the SONG LIST button to turn it off.
3. Select the desired disc by pressing the numbered pushbutton and then use the SEEK SCAN right arrow button to locate the track that you want to save. The track will begin to play.
4. Press and hold the SONG LIST button for two or more seconds to save the track into memory. When SONG LIST is pressed a beep will be heard immediately. After two seconds of pressing SONG LIST continuously, two beeps will sound to confirm that the track has been saved.
5. Repeat Steps 3 and 4 for saving other selections.

If you attempt to save more than 20 selections, S-LIST FULL will appear on the display.

To play the song list, press the SONG LIST button. One beep will be heard and S-LIST will appear on the display. The recorded tracks will begin to play in the order that they were saved.

You may seek through the song list by using the SEEK SCAN arrows. Seeking past the last saved track will return you to the first saved track.

To delete tracks from the song list, perform the following steps:

1. Turn the disc player on.
2. Press the SONG LIST button to turn song list on. S-LIST will appear on the display.
3. Press the SEEK SCAN arrows to select the desired track to be deleted.
4. Press and hold the SONG LIST button for two seconds. When pressing SONG LIST, one beep will be heard immediately. After two seconds of pressing the SONG LIST button continuously, two beeps will be heard to confirm that the track has been deleted.

After a track has been deleted, the remaining tracks are moved up the list. When another track is added to the song list, the tracks will be added to the end of the list.

To delete the entire song list, perform the following steps:

1. Turn the disc player on.
2. Press the SONG LIST button to turn song list on. S-LIST will appear on the display.
3. Press and hold the SONG LIST button for more than four seconds. A beep will be heard, followed by two beeps after two seconds and a final beep will be heard after four seconds. S-LIST EMPTY will appear on the display indicating that the song list has been deleted.

If a disc is ejected, and the song list contains saved tracks from that disc, those tracks are automatically deleted from the song list. Any tracks saved to the song list again are added to the bottom of the list.

To end song list mode, press the SONG LIST button. One beep will be heard and S-LIST will be removed from the display.

Compact Disc Messages

CHECK CD: If this message appears on the radio display, it could be due to one of the following reasons:

- The road is too rough. The disc should play when the road is smoother.
- The disc is dirty, scratched, wet or upside down.
- The air is very humid. If so, wait about an hour and try again.

If the CD is not playing correctly, for any other reason, try a known good CD.

If any error occurs repeatedly or if an error can't be corrected, contact your dealer. If your radio displays an error message, write it down and provide it to your dealer when reporting the problem.

Rear Seat Audio (RSA) (If Equipped)

This feature allows rear seat passengers to listen to and control any of the music sources: AM-FM, cassette tapes and CDs. However, the rear seat passengers can only control the music sources that the front seat passengers are not listening to. For example, rear seat passengers may listen to a cassette tape or CD through the two sets of headphones, (provided in the glove box), while the driver listens to the radio through the front speakers. The rear seat passengers have control of the volume for each set of headphones.

The front seat audio controls always have priority over the RSA controls. If the front seat passengers switch the source for the main radio to a remote source, the RSA will play the same remote source. The rear speakers will be muted when the RSA power is turned on. You may operate the RSA functions even when the main radio is off.

Primary Radio Controls

The following function is controlled by the knob on the main radio:

PWR (Power): Push this knob twice to turn RSA off.

Rear Seat Radio Controls



The following functions are controlled by the RSA system buttons:

PWR (Power): Press this button to turn RSA on or off.

VOL (Volume): Press this knob lightly so it extends. Turn the knob clockwise to increase volume and counterclockwise to decrease volume. Push the knob back into its stored position when you're not using it. The upper VOL knob controls the left headphone and the lower VOL knob controls the right headphone.

AM FM: Press this button to switch between AM, FM1 and FM2. If the front passengers are already listening to AM FM, the RSA controller will not switch between the bands and cannot change the frequency. Press this button to play a cassette tape or a compact disc when listening to the radio.

△ SEEK ▽: While listening to AM FM, press the up or down arrow to tune to the next or previous station and stay there. The sound will mute while seeking. The SEEK button is inactive if the AM FM mode on the front radio is in use.

While listening to a cassette tape, press the up arrow to hear the next selection on the tape. Press the down arrow to go back to the previous selection. The SEEK button is inactive if the tape mode on the front radio is in use.

While listening to a CD, press the up arrow to hear the next track on the CD. Press the down arrow to go back to the start of the current track (if more than eight seconds have played). The SEEK button is inactive if the CD mode on the front radio is in use.

To scan stations, press and hold one of the SEEK arrows until the radio goes into scan mode. The radio will scan to a station, play for a few seconds, then go on to the next station. Press SEEK again to stop scanning. The scan function is inactive if the AM-FM mode on the front radio is in use.

P.SET PROG (Preset Program): The front passengers must be listening to a different source for each of these functions to work:

- Press this button to scan through the preset radio stations set on the pushbuttons on the main radio. The radio will go to a preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. Press this button again to stop scanning presets. The sound will mute while scanning.
- When a cassette tape is playing, press this button to go to the other side of the tape.
- When a CD is playing, press this button to select a disc.

TAPE CD: Press this button to switch between playing a cassette tape or a compact disc when listening to the radio. The inactive tape or compact disc will remain safely inside the radio for future listening.

Rear Audio Controller (RAC) (Option)



If your vehicle has this option, you can control certain radio functions using the buttons on your Rear Audio Controller (RAC).

▲ SEEK ▼: Press the up or down arrow to tune to the next or previous radio station. If the cassette tape or the compact disc player is playing, the player will advance with the up arrow and reverse with the down arrow.

AM FM: Press this button to choose AM, FM1 or FM2. Press this button when a cassette tape or a compact disc is playing, to listen to the radio.

PRESET: Press this button to scan through the preset radio stations set on the pushbuttons on the main radio. The radio will go to a preset station stored on your pushbuttons, play for a few seconds, then go on to the next preset station. Press this button again to stop scanning presets. The sound will mute while scanning.

PLAY: Press this button to play a cassette tape or a compact disc when listening to the radio.

MUTE: Press this button to silence the system. Press it again, or any other radio button, to turn on the sound.

▲VOL (Volume) ▼: Press the up or down arrow to increase or decrease volume.

Theft-Deterrent Feature

THEFTLOCK[®] is designed to discourage theft of your radio. The feature works automatically by learning a portion of the Vehicle Identification Number (VIN). If the radio is moved to a different vehicle, it will not operate and **LOCKED** will be displayed.

With **THEFTLOCK** activated, your radio will not operate if stolen.

Audio Steering Wheel Controls (If Equipped)

If your vehicle has this feature, you can control certain radio and remote playback functions using the buttons on your steering wheel.



PRESET: Press this button to play a station you have programmed on the radio preset pushbuttons. The radio will go to a preset station, play for a few seconds, then go to the next station. Press this button again to stop scanning the preset stations. If a cassette tape is playing, press this button to play the other side of the tape.

If your vehicle has the six-disc compact disc audio system and multiple discs are loaded, each press of **PRESET** will take you to the next disc.

AM FM: Press this button to choose AM, FM1 or FM2. If a cassette tape or a compact disc is playing, it will stop and the radio will play.

▲ **SEEK** ▼ Press the up or down arrow to tune to the next or previous radio station. If a cassette tape or a compact disc is playing, the tape or the CD, will advance with the up arrow and reverse with the down arrow.

▲ **VOL (Volume)** ▼: Press the up or down arrow to increase or decrease volume.

PLAY: Press this button to play a cassette tape or a compact disc when listening to the radio.

MUTE: Press this button to silence the system. Press it again, or any other radio button, to turn mute off.

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.

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 do the following:

- 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, Delphi Electronics radio or other systems, and even damage them. Your vehicle's systems may 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 CLEAN PLAYER 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 dealer (GM Part No. 12344789).

When cleaning the cassette tape player with the recommended non-abrasive cleaning cassette, it is possible that the cassette may eject, because the cut tape detection feature on your radio may recognize it 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 CD TAPE button for five seconds. The tape symbol on the display will flash for two seconds.
4. 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.

After you clean the player, press and hold the eject button for five seconds to reset the CLEAN PLAYER indicator. The radio will display --- 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 side without writing 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.

Integrated Windshield Antenna

The antenna in your vehicle is a very thin, metal layer in the windshield. If you look near the edges of the windshield, you can see the outline of the antenna. The connector is at the top of the windshield, where the headliner ends.

If you experience difficulty with remote transmitters, such as a garage door opener, try pointing the device through the very top of the windshield.



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	Your Driving, the Road and Your Vehicle	4-18	Driving at Night
4-3	Defensive Driving	4-20	Driving in Rain and on Wet Roads
4-4	Drunken Driving	4-23	City Driving
4-7	Control of a Vehicle	4-24	Freeway Driving
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4-10	Traction Control System (If Equipped)	4-26	Highway Hypnosis
4-12	All-Wheel-Drive (AWD) System (Option)	4-26	Hill and Mountain Roads
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4-15	Passing	4-34	Loading Your Vehicle
4-16	Loss of Control	4-36	Towing a Trailer



Your Driving, the Road and Your Vehicle

Whenever we drive, we're taking on an important responsibility. This is true for any motor vehicle -- passenger car, van, truck or sport utility. Driver behavior, the driving environment, and the vehicle's design all affect how well a vehicle performs.

But statistics show that the most important factor, by far, is how we drive. Knowing how these three factors work together can help you understand how your vehicle handles and what you can do to avoid many types of crashes, including a rollover crash.

Driver Behavior

The single most important thing is this: everyone in the vehicle, including the driver, should buckle up. See "Safety Belts" in the Index. In fact, most serious injuries and fatalities to unbelted occupants can be reduced or prevented by the use of safety belts. In a rollover crash, an unbelted person is significantly more likely to die than a person wearing a seat belt. In addition, avoiding excessive speed, sudden or abrupt turns and drunken or aggressive driving can help make trips safer and avoid the possibility of a crash, especially a rollover crash. This section provides many useful tips to help you drive more safely.

Driving Environment

You can also help avoid a rollover or other type of crash by being prepared for driving in inclement weather, at night, or during other times where visibility or traction may be limited (such as on curves, slippery roads or hilly terrain). Unfamiliar surroundings can also have hidden hazards.

To help you learn more about driving in different conditions, this section contains information about city, freeway, and off-road driving, as well as other hints for driving in various weather conditions.

Vehicle Design

According to the U.S. Department of Transportation, utility vehicles have a significantly higher rollover rate than other types of vehicles. Utility vehicles do have a higher ground clearance and a narrower track or shorter wheelbase than passenger cars to make them more capable for off-road driving. Specific design characteristics like these give the driver a better view of the road, but also give utility vehicles a higher center of gravity than other types of vehicles. This means that you shouldn't expect a utility vehicle to handle the same way a vehicle with a lower center of gravity, like a car, would in similar situations. But driver behavior factors are far more often the cause of a utility vehicle rollover than are environmental or vehicle factors. Safe driver behavior and understanding the environment in which you'll be driving can help avoid a rollover crash in any type of vehicle, including utility vehicles.

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, about 16,000 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 an increasing number of U.S. states, and throughout Canada, sets the legal limit at 0.08 percent. In some other countries, the limit is even lower. For example, it is 0.05 percent in both France and Germany. 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.

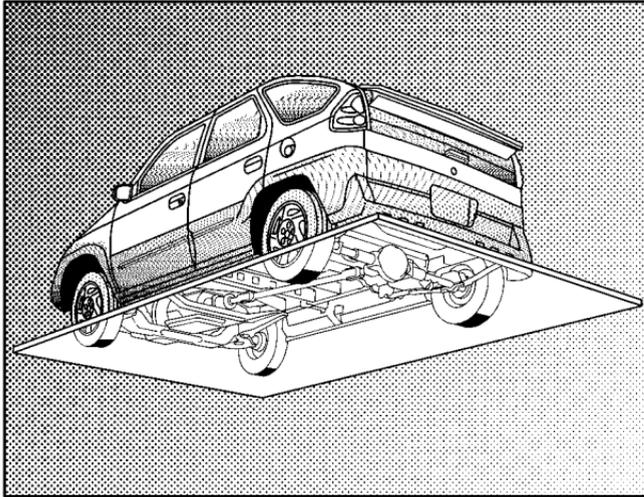
There’s something else about drinking and driving that many people don’t know. Medical research shows that alcohol in a person’s system can make crash injuries worse, especially injuries to the brain, spinal cord or heart. This means that when anyone who has been drinking -- driver or passenger -- is 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. Also see "Traction Control System" in the Index.

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.

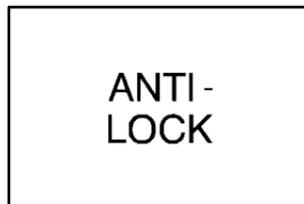
Avoid needless heavy braking. Some people drive in spurts -- heavy acceleration followed by heavy braking -- rather than keeping pace with traffic. This is a mistake. Your brakes may not have time to cool between hard stops. Your brakes will wear out much faster if you do a lot of heavy braking. If you 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.

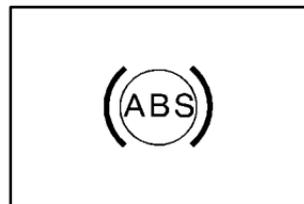
Anti-Lock Brake System (ABS)

Your vehicle has anti-lock brakes. ABS is an advanced electronic braking system that will help prevent a braking skid.

When you start your engine, or when you 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 or pulses a little. This is normal.



United States



Canada

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.



Let's say the road is wet and you're driving safely. Suddenly, an animal jumps out in front of you. You slam on the brakes and continue braking. 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 wheel.

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. This can help you 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 feel a slight brake pedal pulsation or notice some noise, 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 (If Equipped)

Your vehicle may have 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 ACTIVE message will come on when the traction control system is limiting wheel spin. See "TRACTION ACTIVE Message" in the Index. You may feel or hear the system working, but this is normal.

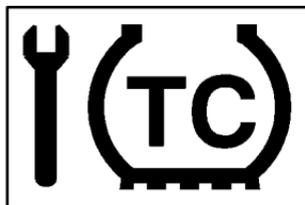
If your vehicle is in cruise control when the traction control system begins to limit wheel spin, the cruise control will automatically disengage. When road conditions allow you to safely use it again, you may reengage the cruise control. See "Cruise Control" in the Index.



United States

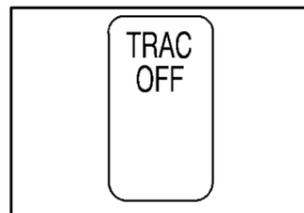
If this message comes on and stays on or comes on while you are driving, there's a problem with your traction control system.

See "Service Traction System Warning Message" in the Index. When this warning message is on, the TRAC OFF light will come on to remind you that the system will not limit wheel spin. Adjust your driving accordingly.



Canada

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 or snow and rocking the vehicle is required. See "Rocking Your Vehicle" in the Index.



To turn the system off, press the TRAC OFF button on the instrument panel switchbank.

If the system is limiting wheel spin when you press the button, the message will go off, but the system will not turn off until there is no longer a current need to limit wheel spin. The TRAC OFF light will come on to remind you the system is off. You can turn the system back on at any time by pressing the button again. The traction control system warning message should go off.

All-Wheel Drive (AWD) System (Option)

If your vehicle has all-wheel drive (AWD), the AWD system operates automatically without any action required by the driver. If the front drive wheels begin to slip, the rear wheels will automatically begin to drive the vehicle as required. There may be a slight engagement noise during hard use but this is normal.

During heavy AWD applications, the engine torque may be reduced to protect AWD system components. If the vehicle is exposed to extended heavy AWD usage, the AWD system will shut itself off to protect the system from overheating. When the system cools down, the AWD system will activate itself again automatically; this cool-down can take up to 20 minutes depending on outside temperature and vehicle use. See “AWD Disable Warning Message” in the Index.

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.

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.

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.

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.

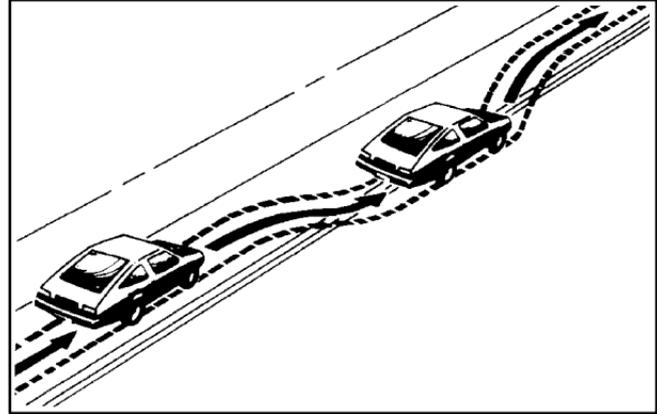


An emergency like this requires close attention and a quick decision. If you are holding the steering wheel at the recommended 9 and 3 o'clock positions, you can turn it a full 180 degrees very quickly without removing either hand. But you have to act fast, steer quickly, and just as quickly straighten 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. If you have the “Traction Control System,” remember: It helps avoid only the acceleration skid. If you do not have this system, or if the system is off, then an acceleration skid is also best handled by easing your foot off the accelerator pedal.

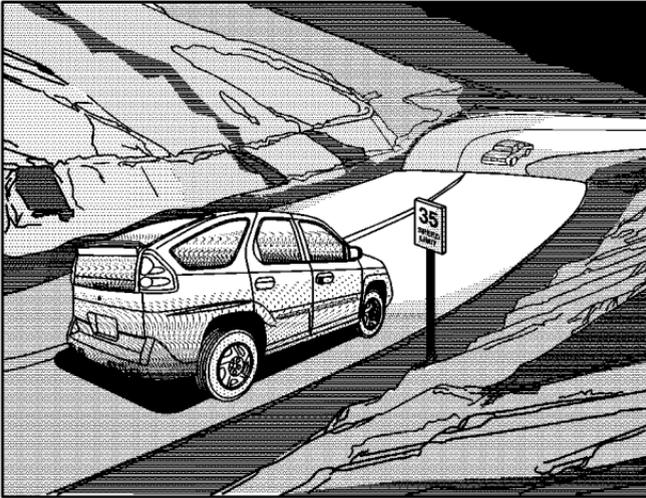
If your vehicle starts to slide, ease your foot off the accelerator pedal and quickly steer the way you want the vehicle to go. If you start steering quickly enough, your vehicle may straighten out. Always be ready for a second skid if it occurs.

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

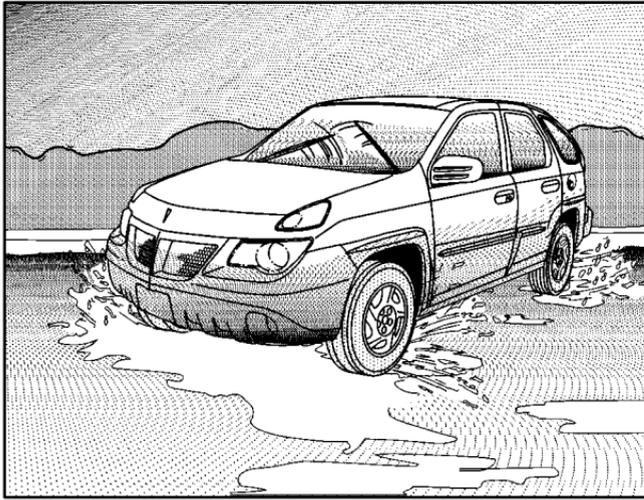


Rain and wet roads can mean driving trouble. On a wet road, you can't stop, accelerate or turn as well because your tire-to-road traction isn't as good as on dry roads.

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 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 the 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 Pontiac 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 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:

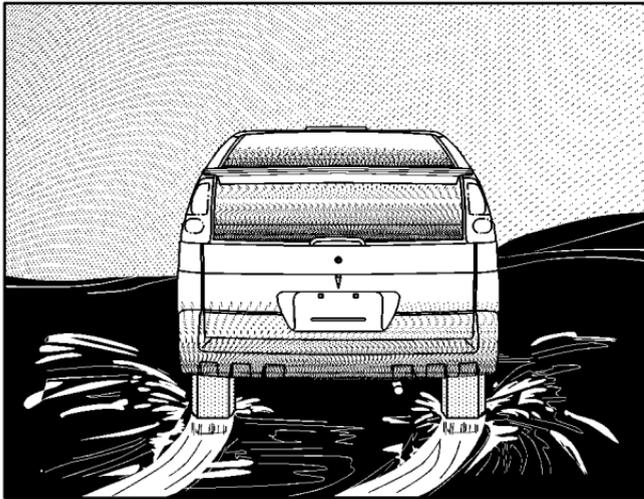
- Have your vehicle in good shape for winter.
- You may want to put winter emergency supplies in your vehicle.

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 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.

If you have traction control, keep the system on. It will improve your ability to accelerate when driving on a slippery road. But you can turn the traction 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. Even though your vehicle has a traction system, you'll want to slow down and adjust your driving to the road conditions. See "Traction Control System" in the Index.

If you don't have a traction system, accelerate gently. Try not to break the gentle traction. If you accelerate too fast, the drive wheels will spin and polish the surface under the tires even more.

Your anti-lock brakes improve your vehicle's stability when you make a hard stop on a slippery road. Even though you have an 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.

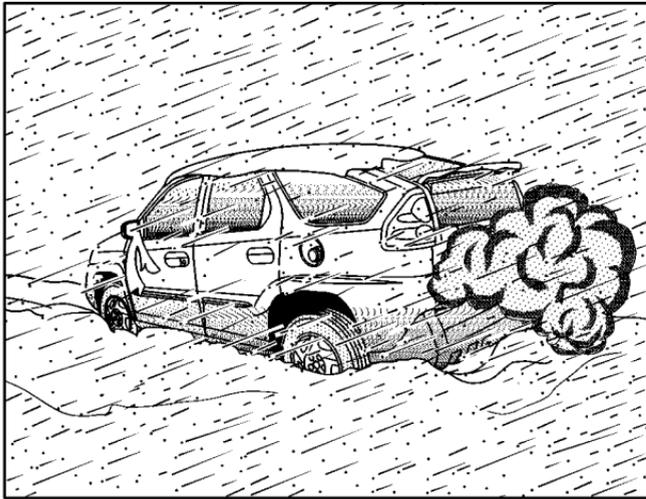
If You're Caught in a Blizzard



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

Recreational vehicle towing means towing your vehicle behind another vehicle -- such as behind a motorhome. The two most common types of recreational vehicle towing are known as “dinghy towing” (towing your vehicle with all four wheels on the ground) and “dolly towing” (towing your vehicle with two wheels on the ground and two wheels up on a device known as a “dolly”).

With the proper preparation and equipment, many vehicles can be towed in these ways. See “Dinghy Towing” and “Dolly Towing,” following.

Here are some important things to consider before you do recreational vehicle towing:

- What’s the towing capacity of the towing vehicle? Be sure you read the tow vehicle manufacturer’s recommendations.
- How far will you tow? Some vehicles have restrictions on how far and how long they can tow.
- Do you have the proper towing equipment? See your dealer or trailering professional for additional advice and equipment recommendations.
- Is your vehicle ready to be towed? Just as you would prepare your vehicle for a long trip, you’ll want to make sure your vehicle is prepared to be towed. See “Before Leaving on a Long Trip” in the Index.

Dinghy Towing

Your vehicle was not designed to be towed with all of its wheels on the ground. If you have a two-wheel-drive vehicle, it can be towed with two of its wheels on the ground. See “Dolly Towing” following. If you have an all-wheel-drive vehicle, it cannot be towed with any of its wheels on the ground. It can be towed with car carrier equipment.

NOTICE:

Towing an all-wheel-drive vehicle with all four wheels on the ground, or even with only two of its wheels on the ground, will damage drivetrain components. Don't tow an all-wheel-drive vehicle if any of its wheels will be on the ground.

Dolly Towing

If you have a two-wheel-drive vehicle, it can be towed with two of its wheels on the ground. To dolly tow your vehicle, do the following:

1. Put the front wheels on a dolly.
2. Put the vehicle in PARK (P).
3. Set the parking brake and then remove the key.
4. Clamp the steering wheel in a straight-ahead position with a clamping device designed for towing.
5. Release the parking brake.

If you have an all-wheel-drive vehicle, it cannot be towed with any of its wheels on the ground. It can be towed with car carrier equipment.

NOTICE:

Towing an all-wheel-drive vehicle with all four wheels on the ground, or even with only two of its wheels on the ground, will damage drivetrain components. Don't tow an all-wheel-drive vehicle if any of its wheels will be on the ground.

Loading Your Vehicle

The diagram shows a rectangular label with the following fields:

- Top left: A small square box.
- Top center: A long horizontal box.
- Below top center: Three boxes labeled "GVWR", "GAWR FRT", and "GAWR RR".
- Below these: Three smaller boxes.
- Middle: A large horizontal box.
- Below middle: A horizontal box.
- Bottom left: "MODEL:" followed by a box.
- Bottom left: "TIRE SIZE" followed by a box.
- Bottom left: "RIM" followed by a box.
- Bottom left: "SP." followed by a box.
- Bottom right: "COLD TIRE PRESSURE" followed by three stacked boxes.
- Bottom: "SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION." followed by a box.

A large, bold, black "EXAMPLE" watermark is diagonally overlaid across the center of the label.

The Certification/Tire label is found on the rear edge of the driver's door.

The label shows the size of your original tires and the inflation pressures needed to obtain the gross weight capacity of your vehicle. This is called the Gross Vehicle Weight Rating (GVWR). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo.

The Certification/Tire label also tells you the maximum weights for the front and rear axles, called the Gross Axle Weight Rating (GAWR). To find out the actual loads on your front and rear axles, you need to go to a weigh station and weigh your vehicle. Your dealer can help you with this. Be sure to spread out your load equally on both sides of the centerline.

Never exceed the GVWR for your vehicle or the GAWR for either the front or rear axle.

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 cargo area of your vehicle. 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.**
- **Don't leave a seat folded down unless you need to.**

Electronic Level Control (Option)

On vehicles equipped with the optional electronic level control, the rear of the vehicle is automatically kept level as you load or unload your vehicle. However, you should still not exceed the GVWR or the GAWR. See “Loading Your Vehicle” in the Index.

If the ignition key is in ACCESSORY, ON or when RAP is active, you may hear the compressor operating when you load your vehicle or shortly after you start your vehicle, and periodically as the system self-adjusts. This is normal. See “Retained Accessory Power” in the Index.

The compressor should operate for brief periods of time. If the sound continues for an extended period of time (longer than one minute) or occurs many times within one trip, your vehicle needs service.

Using heavier suspension components to get added durability might not change your weight ratings. Ask your dealer to help you load your vehicle the right way.

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. 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.

NOTICE:

Pulling a trailer improperly can damage your vehicle and result in costly repairs not covered by your warranty. To pull a trailer correctly, follow the advice in this part, and see your dealer for important information about towing a trailer with your vehicle. Additional rear axle maintenance is required for a vehicle used to tow a trailer. See “Scheduled Maintenance Services” in the Index.

Your vehicle can tow a trailer. 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 section. 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 500 miles (800 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.
- You can use THIRD (3) (or, as you need to, a lower gear) when towing a trailer. Operating your vehicle in THIRD (3) when towing a trailer will minimize heat buildup and extend the life of your transaxle.

Three important considerations have to do with weight:

- the weight of the trailer,
- the weight of the trailer tongue
- and the weight on your vehicle's tires.

Weight of the Trailer

How heavy can a trailer safely be?

It should never weigh more than 1,400 lbs. (630 kg) with up to five occupants in the vehicle or more than 2,000 lbs. (900 kg) with up to two occupants. If you have the optional trailer towing package, your vehicle can tow up to 2,900 lbs. (1 300 kg) with up to five occupants or up to 3,500 lbs. (1 575 kg) with up to two occupants. 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.

You can ask your dealer for our trailering information or advice, or you can write us at:

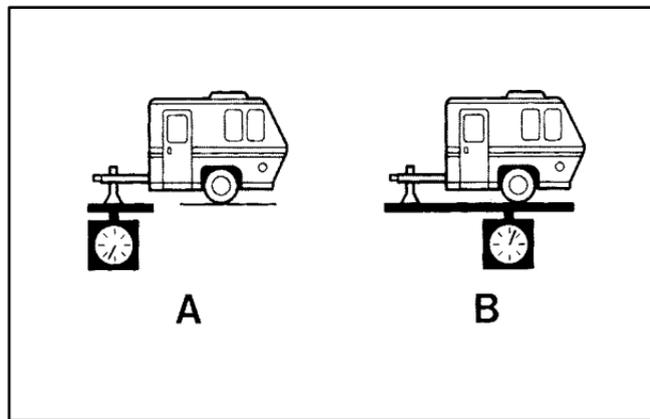
Pontiac - GMC Customer Assistance Center
P.O. Box 33172
Detroit, MI 48232-5172

In Canada, write to:

General Motors of Canada Limited
Customer Communication Centre, 163-005
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 will 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 or a weight-distributing hitch, the trailer tongue weight (A) should be 10 percent to 15 percent of the total loaded trailer weight (B). Do not exceed the maximum allowable tongue weight for your vehicle.

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 Certification/Tire Label at the rear edge of the driver's door, or see "Tire Loading" 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:

- 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-carrying 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 to help prevent the tongue from contacting 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. Never allow safety chains to drag on the ground.

Trailer Brakes

If your trailer weighs more than 1,000 lbs. (450 kg) loaded, then it needs its own brakes -- and they must be adequate. Be sure to read and follow the instructions for the trailer brakes so you'll be able to install, adjust and maintain them properly.

Because you have anti-lock brakes, do not try to tap into your vehicle's brake system. If you do, both brake systems won't work well, or at all.

Driving with a Trailer

CAUTION:

If you have a rear-most window open and you pull a trailer with your vehicle, carbon monoxide (CO) could come into your vehicle. You can't see or smell CO. It can cause unconsciousness or death. See "Engine Exhaust" in the Index. To maximize your safety when towing a trailer:

- **Have your exhaust system inspected for leaks, and make necessary repairs before starting on your trip.**
- **Keep the rear-most windows closed.**
- **If exhaust does come into your vehicle through a window in the rear or another opening, drive with your front, main heating or cooling system on and with the fan on any speed. This will bring fresh, outside air into your vehicle. Do not use recirculation because it only recirculates the air inside your vehicle. See "Comfort Controls" in the Index.**

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 has to have extra wiring.

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.

If you are towing a trailer that weighs more than 1,000 lbs. (450 kg), drive in THIRD (3) instead of AUTOMATIC OVERDRIVE (D) (or, as you need to, a lower gear). This will minimize heat build-up and extend the life of your transaxle.

Parking on Hills



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 don't shift into PARK (P) yet.
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 apply your parking brake, and then shift to PARK (P).
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
 - release the parking brake.
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 for more on this. Things that are especially important in trailer operation are automatic transaxle fluid (don't overfill), engine oil, belts, cooling system and brake system. Each of these is covered in this manual, and the Index will help you find them quickly. If you're trailering, it's a good idea to review these sections before you start your trip.

Check periodically to see that all hitch nuts and bolts are tight.



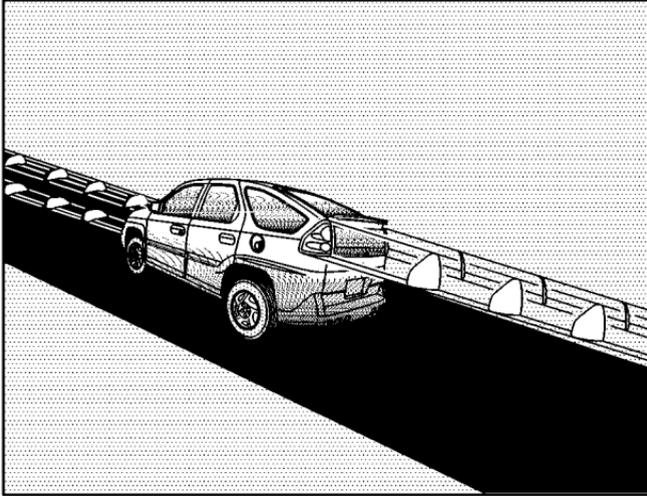
Section 5 Problems on the Road

Here you'll find what to do about some problems that can occur on the road.

5-2 Hazard Warning Flashers
5-2 Other Warning Devices
5-3 Jump Starting
5-9 Towing Your Vehicle
5-9 Engine Overheating

5-12 Cooling System
5-20 If a Tire Goes Flat
5-20 Changing a Flat Tire
5-44 Compact Spare Tire
5-46 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 flasher button is located on top of the steering column.

Your hazard warning flashers work no matter what position your key is in, and even if the key isn't in.

Press the button to make the front and rear turn signal lamps flash on and off. Press the button again to turn the 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 your battery has run down, you may want to use another vehicle and some jumper cables to start your vehicle. Be sure to 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.

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) or a manual transaxle in NEUTRAL before setting the parking brake.

NOTICE:

If you leave your radio on, it could be badly damaged. The repairs wouldn't be covered by your warranty.

3. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or in the accessory power outlet(s). Turn off the radios and all lamps that aren't needed. This will avoid sparks and help save both batteries. And it could save your radio!

4. Open the hood and locate the batteries. Find the positive (+) and negative (-) terminal locations on each vehicle.

You will not need to access your battery for jump starting. Your vehicle has a remote positive (+) jump starting terminal for that purpose. The terminal is located under a tethered cap at the front of the underhood fuse block. See "Engine Compartment Overview" in the Index for more information on location.

Flip the cap up to access the remote positive (+) terminal. You should always use the remote positive (+) terminal instead of the positive (+) terminal on the battery.



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.

 **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.

 **CAUTION:**

Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.

5. Check that the jumper cables don't have loose or missing insulation. If they do, you could get a shock. The vehicles could be damaged too.

Before you connect the cables, here are some basic things you should know. Positive (+) will go to positive (+) or to a remote positive (+) terminal if the vehicle has one. Negative (-) will go to a heavy, unpainted metal engine part or to a remote negative (-) terminal if the vehicle has one.

Don't connect positive (+) to negative (-) or you'll get a short that would damage the battery and maybe other parts too. And don't connect the negative (-) cable to the negative (-) terminal on the dead battery because this can cause sparks.

6. Connect the red positive (+) cable to the positive (+) terminal of the dead battery. Use a remote positive (+) terminal if the vehicle has one.



7. Don't let the other end touch metal. Connect it to the positive (+) terminal of the good battery. Use a remote positive (+) terminal if the vehicle has one.



8. Now connect the black negative (-) cable to the negative (-) terminal of the good battery. Use a remote negative (-) terminal if the vehicle has one.

Don't let the other end touch anything until the next step. The other end of the negative (-) cable *doesn't* go to the dead battery. It goes to a heavy, unpainted metal engine part or to a remote negative (-) terminal on the vehicle with the dead battery.

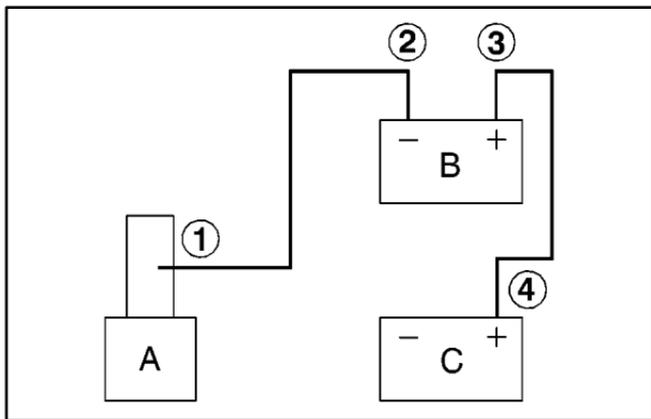


9. Connect the other end of the negative (-) cable at least 18 inches (45 cm) away from the dead battery, but not near engine parts that move. The electrical connection is just as good there, and the chance of sparks getting back to the battery is much less.

10. Now start the vehicle with the good battery and run the engine for a while.
11. Try to start the vehicle that had the dead battery. If it won't start after a few tries, it probably needs service.

NOTICE:

Damage to your vehicle may result from electrical shorting if jumper cables are removed incorrectly. To prevent electrical shorting, take care that the cables don't touch each other or any other metal. The repairs wouldn't be covered by your warranty.



Jumper Cable Removal

- A. Heavy, Unpainted Metal Engine Part or Remote Negative (-) Terminal
- B. Good Battery or Remote Positive (+) and Remote Negative (-) Terminals
- C. Dead Battery or Remote Positive (+) Terminal

To disconnect the jumper cables from both vehicles, do the following:

1. Disconnect the black negative (-) cable from the vehicle that had the dead battery.
2. Disconnect the black negative (-) cable from the vehicle with the good battery.
3. Disconnect the red positive (+) cable from the vehicle with the good battery.
4. Disconnect the red positive (+) cable from the other vehicle.
5. Return the remote positive (+) terminal cover to its original position.

Towing Your Vehicle

Consult your dealer or a professional towing service if you need to have your disabled vehicle towed. See “Roadside Assistance” in the Index. If you want to tow your vehicle behind another vehicle for recreational purposes (such as behind a motorhome), see “Recreational Vehicle Towing” in the Index.

Engine Overheating

You will find an engine coolant temperature gage on your vehicle’s instrument panel. See “Engine Coolant Temperature Gage” in the Index. You also have an engine coolant temperature warning message on your instrument panel. See “Engine Coolant Temperature Warning Message” in the Index.

Overheated Engine Protection Operating Mode

This emergency operating mode allows your vehicle to be driven to a safe place in an emergency situation. If an overheated engine condition exists, an overheat protection mode which alternates firing groups of cylinders helps prevent engine damage. In this mode, you will notice a significant loss in power and engine performance. The temperature gage will indicate an overheat condition exists. Driving extended miles (km) and/or 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 system. 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.

CAUTION: (Continued)

CAUTION: (Continued)

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 for information on driving to a safe place in an emergency.

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 for information on driving to a safe place in an emergency.

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. Turn on your heater to full hot at the highest fan speed and open the window as necessary.
3. If you're in a traffic jam, shift to NEUTRAL (N); otherwise, shift to the highest gear while driving -- AUTOMATIC OVERDRIVE (D).

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.

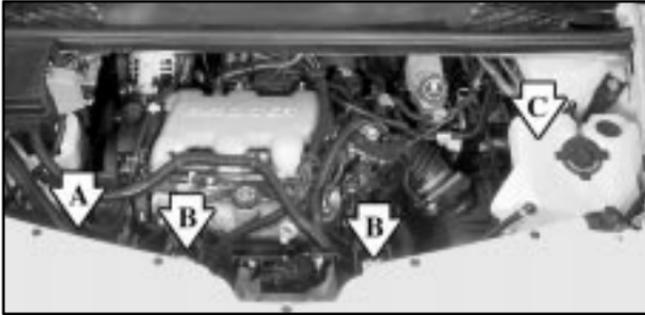
If the warning continues, pull over, stop, and park your vehicle right away.

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. Radiator Pressure Cap
- B. Electric Engine Cooling Fans
- C. Coolant Recovery Tank

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 recovery tank is boiling, don't do anything else until it cools down. The vehicle should be parked on a level surface.



The coolant level should be at or above the FULL COLD mark. If it isn't, you may have a leak at the pressure cap or 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.

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.

NOTICE:

Engine damage from running your engine without coolant isn't covered by your warranty. See "Overheated Engine Protection Operating Mode" in the Index for information on driving to a safe place in an emergency.

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.

How to Add Coolant to the Coolant Recovery Tank

If you haven't found a problem yet, but the coolant level isn't at or above the FULL COLD mark, add a 50/50 mixture of *clean, drinkable water* and DEX-COOL[®] engine coolant at the coolant recovery tank. See "Engine Coolant" in the Index for more information.

CAUTION:

Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid such as 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. Use the recommended coolant and the proper coolant mixture.



⚠ 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 the coolant in the coolant recovery tank is at or above the FULL COLD mark, start your vehicle.

If the overheat warning continues, there's one more thing you can try. You can add the proper coolant mixture directly to the radiator, but be sure the cooling system is cool before you do it.

⚠ 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 radiator

CAUTION: (Continued)

CAUTION: (Continued)

pressure cap -- even a little -- they can come out at high speed. Never turn the cap when the cooling system, including the radiator pressure cap, is hot. Wait for the cooling system and the radiator pressure cap to cool if you ever have to turn the pressure cap.



How to Add Coolant to the Radiator

NOTICE:

Your engine has a specific radiator fill procedure. Failure to follow this procedure could cause your engine to overheat and be severely damaged.



1. You can remove the radiator pressure cap when the cooling system, including the radiator pressure cap and upper radiator hose, is no longer hot. Turn the pressure cap slowly counterclockwise 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 pressure cap, but now push down as you turn it. Remove the pressure cap.

⚠ 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.



Housing



Bypass Tube

3. After the engine cools, open the coolant air bleed valves.

There are two bleed valves. One is located on the thermostat housing. The other is located on the thermostat bypass tube.



4. Fill the radiator with the proper DEX-COOL[®] coolant mixture, up to the base of the filler neck. See “Engine Coolant” in the Index for more information about the proper coolant mixture.

If you see a stream of coolant coming from an air bleed valve, close the valve. Otherwise, close the valves after the radiator is filled.

5. Rinse or wipe any spilled coolant from the engine and the compartment.



6. Start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fans.
7. By this time, the coolant level inside the radiator filler neck may be lower. If the level is lower, add more of the proper DEX-COOL[®] coolant mixture through the filler neck until the level reaches the base of the filler neck.



8. Then replace the pressure cap. At any time during this procedure if coolant begins to flow out of the filler neck, reinstall the pressure cap. Be sure the arrows on the pressure cap line up like this.



9. Then fill the coolant recovery tank to the FULL COLD mark.
10. Put the cap back on the coolant recovery tank.

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.

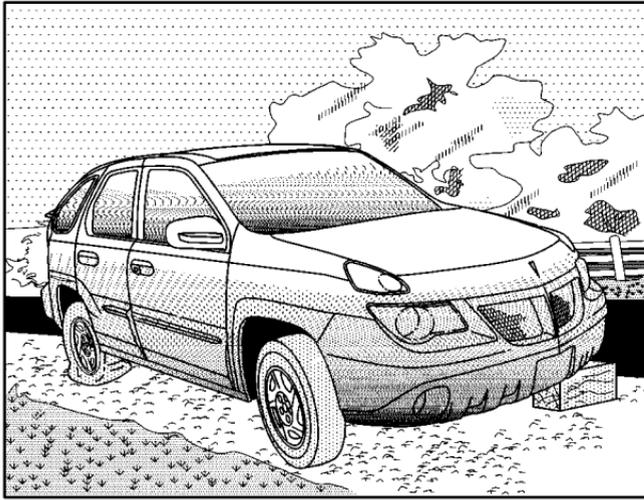


CAUTION:

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. Set the parking brake firmly.**
- 2. Put the shift lever in PARK (P).**
- 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.



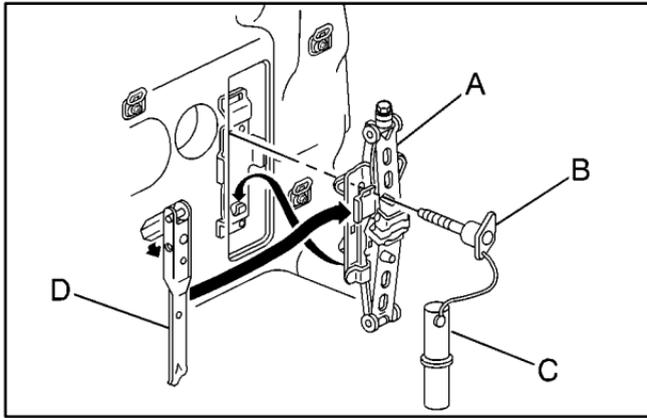
The following steps will tell you how to use the jack and change a tire.

Removing the Spare Tire and Tools



The equipment you'll need is located in the storage compartment at the rear of the vehicle, on the passenger's side.

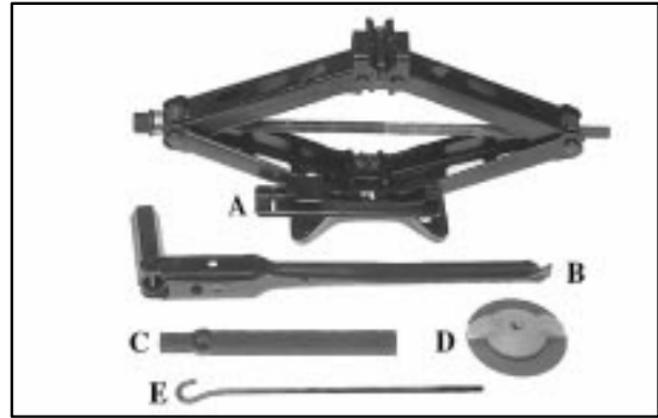
1. Remove the optional side convenience net.
2. Open the jack storage compartment by lifting up the tab and pulling the cover off.



- A. Jack
- B. Wing Nut and Screw
- C. Jacking Instructions
- D. Folding Wrench

Remove the jack and jacking tools by turning the wing bolt counterclockwise. Slightly lift up the jack from the bracket tab and then take it out of the storage compartment.

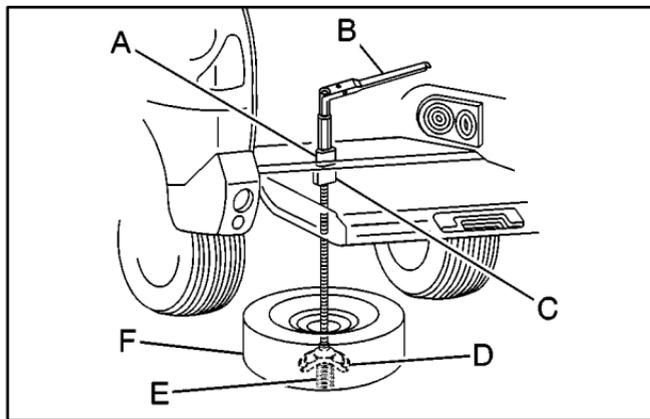
Separate the jack and remove the folding wrench from the jack.



The tools you'll be using include the jack (A), folding wrench (B), extension tube (C), wing bolt (D), and J-Hook (E).

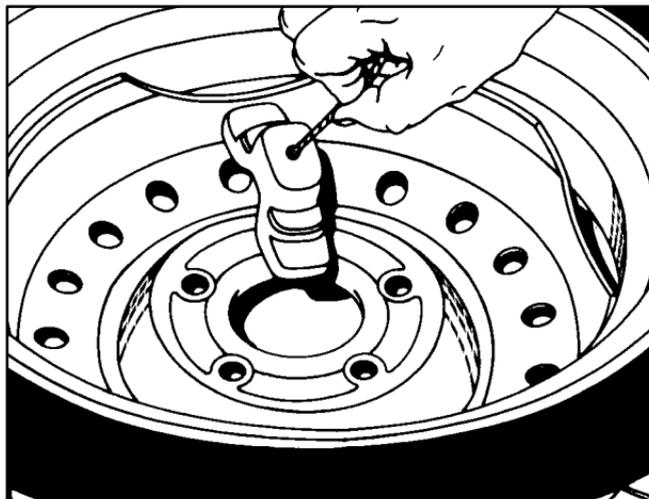
Removing the Spare Tire (Vehicles without the Sliding Rear Convenience/Cargo Tray)

The compact spare tire is located under the vehicle, ahead of the rear bumper. Use the spare tire hoist to raise, lower and store the compact spare. See “Compact Spare Tire” later in this section for more information about the compact spare.



- | | |
|-------------------|---------------|
| A. Hoist Shaft | D. Retainer |
| B. Folding Wrench | E. Spring |
| C. Hoist Assembly | F. Spare Tire |

1. Flip the rear cargo area carpet cut out, to expose the hoist shaft.
2. Attach the folding wrench into the hoist shaft.
3. Turn the folding wrench counterclockwise to lower the spare tire to the ground. Continue turning the wrench until the spare tire can be pulled out from under the vehicle.



4. To remove the spare tire from the cable, tilt the retainer and slip it through the wheel opening.

5. After removing the spare tire, turn the wrench clockwise to raise the cable back up.

Do not store a full-size or a flat road tire under the vehicle. See “Storing a Flat (Vehicles without the Sliding Rear Convenience/Cargo Tray)” and “Storing a Flat (Vehicles with the Sliding Rear Convenience/Cargo Tray)” later in this section.

To continue changing the flat tire see “Removing the Flat Tire and Installing the Spare Tire” later in this section.

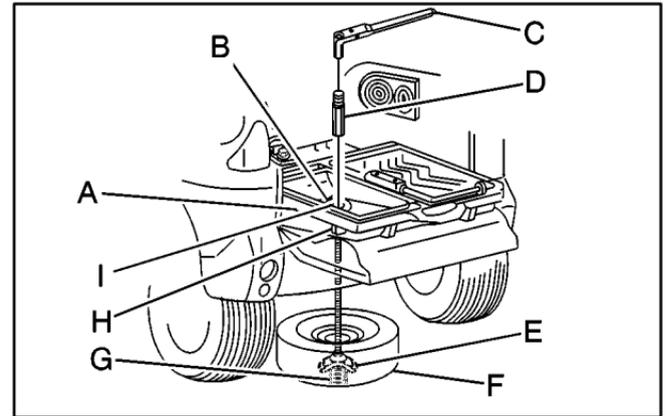


If the spare tire will not lower, the secondary latch may be engaged and causing the tire not to lower. Do the following to check the cable:

1. Check under the vehicle to see if the cable is visible.
2. If not visible, see “Secondary Latch System” later in this section.
3. If visible, first try to tighten the cable by turning the folding wrench clockwise until you hear two clicks or feel it skip twice. You cannot over-tighten the cable.
4. Loosen the cable by turning the wrench counterclockwise three or four turns.
5. Repeat this procedure at least two times.
6. If you still cannot lower the spare tire to the ground, see “Secondary Latch System” later in this section.
7. If the spare tire did lower to the ground, continue with Step 4 under “Removing the Spare Tire (Vehicles without the Sliding Rear Convenience/Cargo Tray)”.

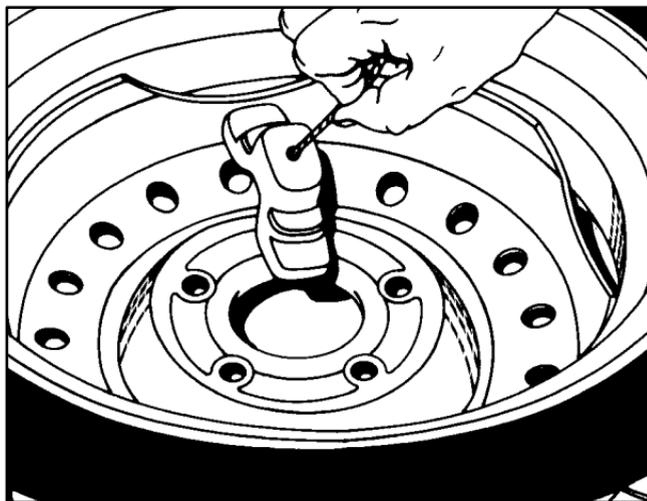
Removing a Spare Tire (Vehicles with the Sliding Rear Convenience/Cargo Tray (Option))

The compact spare tire is located under the vehicle, ahead of the rear bumper. Use the spare tire hoist to raise, lower and store the compact spare. See “Compact Spare Tire” later in this section for more information about the compact spare.



- | | |
|--|-------------------------|
| A. Sliding Rear Convenience/Cargo Tray | D. Extension Tube |
| B. Storage Compartment | E. Retainer |
| C. Folding Wrench | F. Compact Spare Tire |
| | G. Spring |
| | H. Hoist Shaft Assembly |
| | I. Hoist Shaft |

1. Push the release lever located in front of the handle of the sliding rear tray to release the pin from the floor track assembly.
2. Pull the sliding rear tray toward you without lifting it up.
3. You will hear a click when the sliding rear tray is locked into the extended position. This is where the sliding rear tray needs to be in order to be able to remove the spare tire.
4. Open the driver's side storage compartment door of the sliding rear tray.
5. Remove the cap on the bottom of the storage compartment and flip the carpet cut out, to expose the hoist shaft.
6. Remove the extension tube that is attached at the front of the storage compartment.
7. Insert one end of the extension tube to the hoist shaft and attach the folding wrench to the other end of the extension tube.
8. Turn the folding wrench counterclockwise to lower the spare tire to the ground. Continue turning the wrench until the spare tire can be pulled out from under the vehicle.



9. To remove the spare tire from the cable, tilt the retainer and slip it through the wheel opening.
10. After removing the spare tire, turn the wrench clockwise to raise the cable back up.

Do not store a full-size or a flat road tire under the vehicle. See “Storing a Flat (Vehicles without the Sliding Rear Convenience/Cargo Tray)” and “Storing a Flat (Vehicles with the Sliding Rear Convenience/Cargo Tray)” later in this section.

To continue changing the flat tire see “Removing the Flat Tire and Installing the Spare Tire” later in this section.



If the spare tire will not lower, the secondary latch may be engaged and causing the tire not to lower. Do the following to check the cable:

1. Check under the vehicle to see if the cable is visible.
2. If not visible, see “Secondary Latch System” later in this section.
3. If visible, first try to tighten the cable by turning the folding wrench clockwise until you hear two clicks or feel it skip twice. You cannot over-tighten the cable.
4. Loosen the cable by turning the wrench counterclockwise three or four turns.
5. Repeat this procedure at least two times.
6. If you still cannot lower the spare tire to the ground, see “Secondary Latch System” later in this section.
7. If the spare tire did lower to the ground, continue with Step 9 under “Removing the Spare Tire (Vehicles with the Sliding Rear Convenience/ Cargo Tray)”.

Secondary Latch System

Your vehicle has an underbody mounted tire hoist assembly equipped with a secondary latch system. It's designed to stop the compact spare tire from suddenly falling off your vehicle if the cable holding the spare tire is damaged. For the secondary latch to work, the tire must be stowed with the valve stem pointing down.

See “Storing the Spare Tire and Tools” in the Index for instructions on storing the compact spare tire correctly.

CAUTION:

Before beginning this procedure read all the instructions. Failure to read and follow the instructions could damage the hoist assembly and you and others could get hurt. Read and follow the instructions listed below.

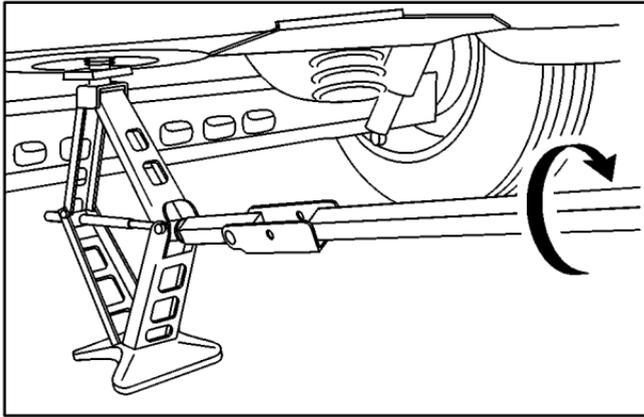
Front-Wheel Drive

To release the spare tire from the secondary latch, do the following:

CAUTION:

Someone standing too close during the procedure could be injured by the jack. If the spare tire does not slide off the jack completely, make sure no one is behind you or on either side of you as you pull the jack out from under the spare.

If the cable is not visible, start this procedure at Step 2.



1. Turn the wrench counterclockwise until approximately 6 inches (15 cm) of cable is exposed.
2. Attach the folding wrench to the jack and raise the jack at least 10 turns.
3. Place the jack under the vehicle, ahead of the rear bumper. Position the center lift point of the jack under the center of the spare tire.



4. Turn the folding wrench clockwise to raise the jack until it lifts the secondary latch spring.
5. Keep raising the jack until the spare tire stops moving upward and is held firmly in place, this lets you know that the secondary latch has released and the spare tire is balancing on the jack.



6. Lower the jack by turning the folding wrench counterclockwise. Keep lowering the jack until the spare tire slides off the jack



7. Disconnect the wrench from the jack and carefully remove the jack. Use one hand to push against the spare while firmly pulling the jack out from under the spare tire with the other hand.
8. When the spare tire has been completely lowered, tilt the retainer and slip it through the wheel opening.
9. If the cable is hanging, turn the wrench clockwise to raise the cable back up.

Have the hoist assembly inspected as soon as you can. You will not be able to store a spare or flat tire using the hoist assembly until it has been repaired or replaced.

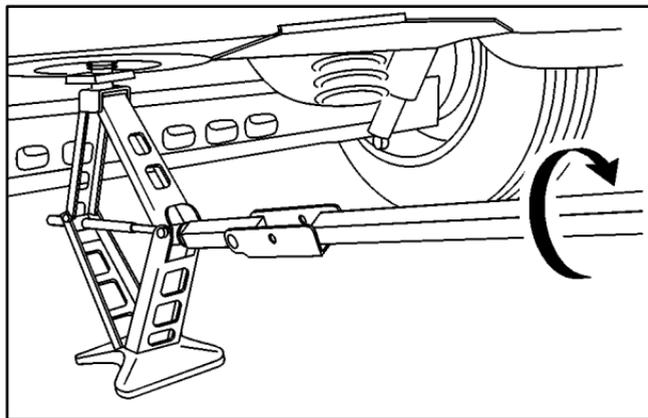
All-Wheel Drive

To release the spare tire from the secondary latch, do the following:

CAUTION:

Someone standing too close during the procedure could be injured by the jack. If the spare tire does not slide off the jack completely, make sure no one is behind you or on either side of you as you pull the jack out from under the spare.

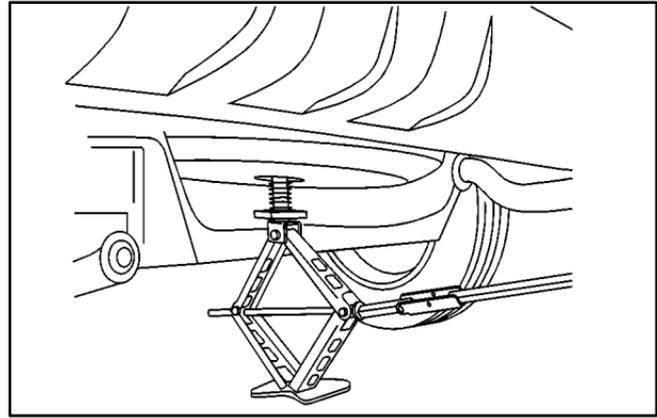
If the cable is not visible, start this procedure at Step 2.



1. Turn the wrench counterclockwise until approximately 6 inches (15 cm) of cable is exposed.
2. Attach the folding wrench to the jack and raise the jack at least 10 turns.
3. Place the jack under the vehicle, ahead of the rear bumper. Position the center lift point of the jack under the center of the spare tire.



4. Turn the folding wrench clockwise to raise the jack until it lifts the secondary latch spring.
5. Keep raising the jack until the spare tire stops moving upward and is held firmly in place, this lets you know that the secondary latch has released



6. Lower the jack by turning the folding wrench counterclockwise. Keep lowering the jack until the spare tire is resting on the folding wrench.



7. Grasp the spare tire with both hands and pull it out from under the vehicle.

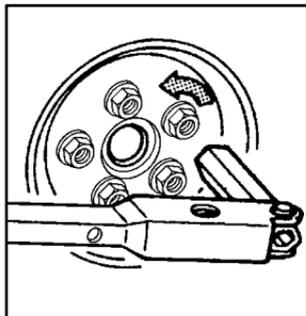
8. Reach under the vehicle and remove the folding wrench and jack.
9. When the spare tire has been completely lowered, tilt the retainer and slip it through the wheel opening.
10. If the cable is hanging, turn the wrench clockwise to raise the cable back up.

Have the hoist assembly inspected as soon as you can. You will not be able to store a spare or flat tire using the hoist assembly until it has been repaired or replaced.

Removing the Flat Tire and Installing the Spare Tire

1. If there is a wheel cover, loosen the plastic nut caps with the wheel wrench. They won't come off. Then, using the flat end of the wheel wrench, pry along the edge of the cover until it comes off. Be careful; the edges may be sharp. Don't try to remove the cover with your bare hands.

If your vehicle has aluminum wheels, remove the wheel nut caps using the wheel wrench.

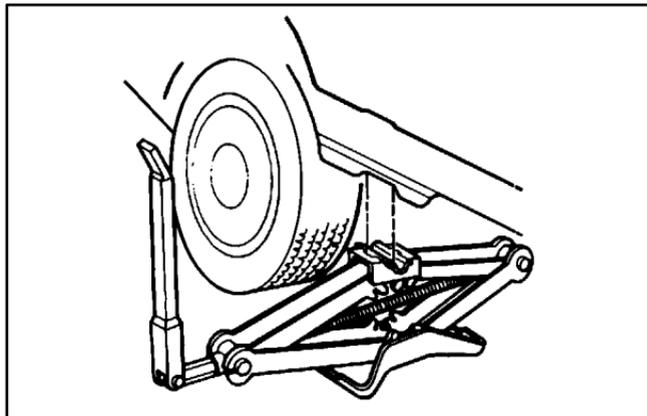


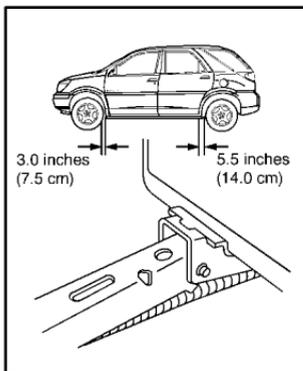
2. Loosen the wheel nuts -- but do not remove them -- using the folding wrench. (Turn the handle about 180 degrees, then flip the handle back to the starting position. This avoids taking the wrench off the lug nut for each turn.)

For wheels with a wheel lock key, use the wheel lock key between the lock nut and folding wrench. The key is supplied in the front passenger door pocket.

NOTICE:

To help avoid damage to lock nut or wheel lock key, do not use an impact wrench with this key.





3. Near each wheel, there is a notch in the vehicle's body. Position the jack and raise the jack head until it fits firmly into the notch in the vehicle's frame nearest the flat tire.

NOTICE:

Do not place the jack under the rear axle control arms. Only use the areas shown for proper jack location.

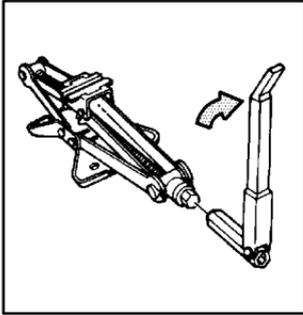
Do not raise the vehicle yet. Put the compact spare tire near you.

⚠ 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.

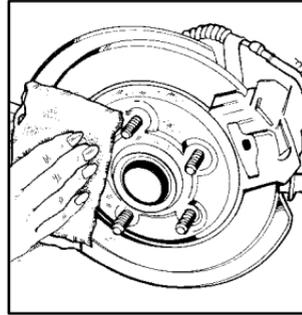
⚠ CAUTION:

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.



4. Attach the folding wrench to the jack, and turn the wrench clockwise to raise the jack head 3 inches (7.6 cm).

5. Raise the vehicle by turning the folding wrench clockwise in the jack. Raise the vehicle far enough off the ground so there is enough room for the spare tire to fit under the wheel well.
6. Remove all the wheel nuts and take off the flat tire.



7. Remove any rust or dirt from the wheel bolts, mounting surfaces and spare wheel.

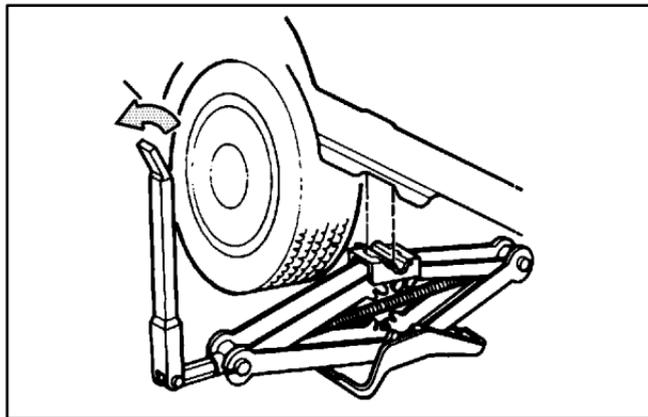
⚠ CAUTION:

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.

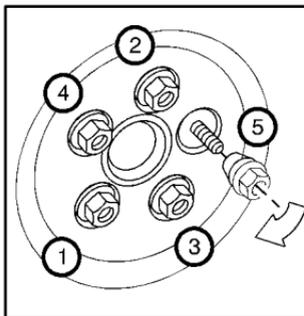
⚠ CAUTION:

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.

8. Install the spare tire and put the wheel nuts back on with the rounded end of the nuts toward the wheel. Tighten each nut by hand until the wheel is held against the hub.



9. Lower the vehicle by attaching the folding wheel wrench to the jack and turning the wrench counterclockwise. Lower the jack completely.



10. Tighten the wheel nuts firmly in a crisscross sequence, as shown.

⚠ 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.

11. Don't try to put a wheel cover on the compact spare tire. It won't fit. Store the wheel cover securely in the rear of the vehicle 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 a Flat or 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.

CAUTION:

The underbody-mounted spare tire needs to be stored with the valve stem pointing down. If the spare tire is stored with its valve stem pointing upwards, its secondary latch won't work properly, and the spare tire could loosen and suddenly fall from your vehicle. If this happened when your vehicle was being driven, the tire might contact a person or another vehicle, causing injury and, of course, damage to itself as well. Be sure the underbody-mounted spare tire is stored with its valve stem pointing down.

Storing the Spare Tire and Tools

1. Lay the compact spare tire on the ground at the rear of the vehicle. Position the compact spare tire so the valve stem is pointed down facing the rear of the vehicle.
2. Lower the cable to the ground. See “Removing the Spare Tire without the Sliding Rear Convenience/Cargo Tray” or “Removing the Spare Tire with the Sliding Rear Convenience/Cargo Tray” in the Index.
3. Tilt the retainer downward and slip it through the center hole of the spare tire.

Make sure the retainer is fully seated across the underside of the wheel.
4. Attach the folding wrench to the hoist shaft.

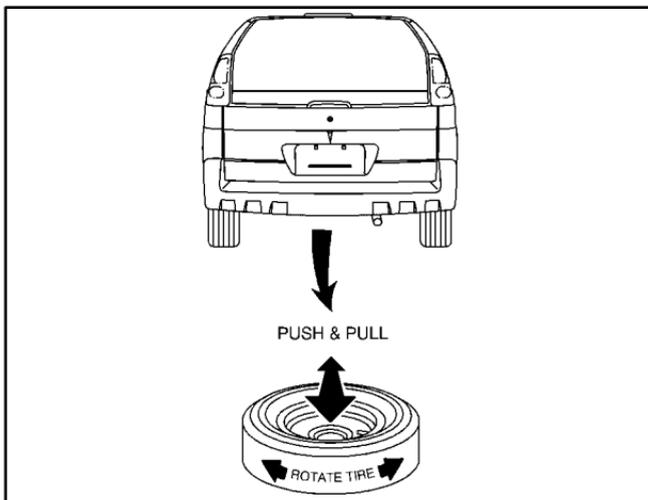
Use the extension tube if you have the optional sliding rear convenience/cargo tray.

5. Turn the folding wrench clockwise to lift the spare tire.

For all-wheel-drive vehicles, when the tire reaches the stabilizer bar, move the tire over the bar, then continue to turn the folding wrench clockwise to lift the spare tire.

6. When the tire is almost in the stored position, turn the tire so the valve stem is towards the rear of the vehicle.

This will help when you check and maintain tire pressure in the spare.
7. Raise the tire fully against the underside of the vehicle. Continue turning the folding wrench until you feel more than two clicks. This indicates that the compact spare tire is secure and the cable is tight. The spare tire hoist cannot be overtightened.



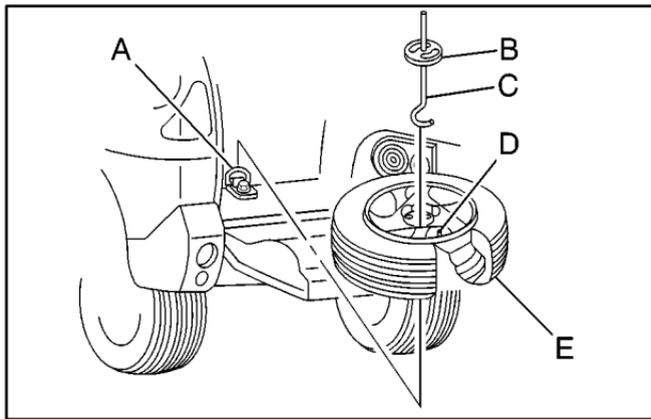
8. Make sure the tire is stored securely. Push, pull, and then try to rotate or turn the tire. If the tire moves, use the folding wrench to tighten the cable.

Put back all tools as they were stored in the jack storage compartment and put the compartment cover back on.

To put the cover back on, slip the tabs on the bottom of the cover into the bottom of the cover opening. Push the cover in place and push down the tab on the top of the cover so that it rests in the groove. This secures the cover in place.

When you replace the compact spare with a full-size tire, reinstall the bolt-on wheel covers or the center cap (if equipped). Tighten them “hand tight” over the wheel nuts, using the folding wrench.

Storing the Flat Tire without the Sliding Rear Convenience/Cargo Tray



- A. D-ring
- B. Wing Nut
- C. J-hook

- D. Valve Stem
- E. Full-size Tire

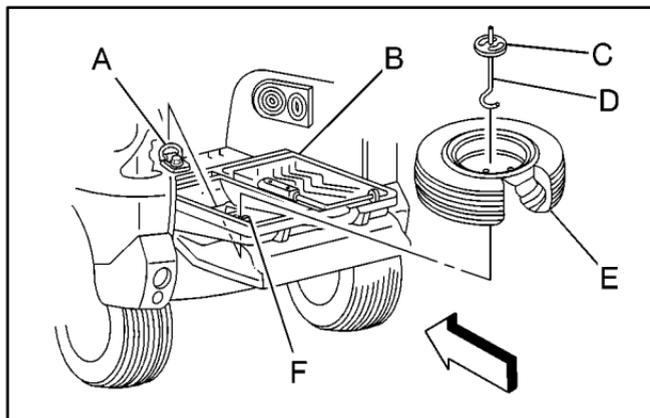
1. Flip up the D-Ring located in the rear cargo area.
2. Lay the tire in the rear cargo area of the vehicle with the valve stem up with the center hole of the tire over the D-ring.

For vehicles with aluminum wheels, remove the center trim cap by tapping the back of the cap with the folding wrench.

3. Remove the J-hook and the wing nut from the back of the jack access door. Assemble the wing nut and the J-hook.
4. Install the wing nut and the J-hook to the D-ring through the center hole of the tire.
5. Tighten the wing nut to secure the tire to the floor.
Push and pull on the tire to make sure the tire is secure and does not move.
6. Put back all tools as they were stored in the jack storage compartment. Attach the wrench back to the jack. Put the jack base on the bracket tab and sit the jack properly between the two “ears” of the bracket. Use the bolt to tighten the jack.
7. Put the compartment cover back on.

To put the cover back on, slip the tabs on the bottom of the cover into the bottom of the cover opening. Push the cover in place and push down the tab on the top of the cover so that it rests in the groove. This secures the cover in place.

Storing the Flat Tire with the Sliding Rear Convenience/Cargo Tray (Option)



- | | |
|--|---------------------------------|
| A. D-ring | D. J-hook |
| B. Sliding Rear Convenience/Cargo Tray | E. Full-size Tire |
| C. Wing Nut | F. Storage Compartment Cap Hole |

1. Push the sliding rear tray forward to the stored position.
2. Open the driver's side storage compartment door of the sliding rear tray.
3. Remove the rear cap on the bottom of the storage compartment and flip the D-ring up.
4. Lay the tire on top of the driver's side storage compartment with the valve stem down. Make sure you can see the D-ring through the center hole of the tire.
5. Remove the J-hook and the wing nut from the back of the jack access door. Assemble the wing nut and the J-hook.
6. Install the wing nut and the J-hook to the D-ring through the center hole of the tire.

7. Tighten the wing nut to secure the tire to the floor.

Push and pull on the tire to make sure the tire is secure and does not move.

8. Put back all tools as they were stored in the storage compartment. Attach the wrench back to the jack. Put the jack base on the bracket tab and sit the jack properly between the two “ears” of the bracket. Use the bolt to tighten the jack.

9. Put the compartment cover back on.

To put the cover back on, slip the tabs on the bottom of the cover into the bottom of the cover opening. Push the cover in place and push down the tab on the top of the cover so that it rests in the groove. This secures the cover in place.

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.

All-Wheel Drive (Option)

NOTICE:

After installing a compact spare tire on a vehicle with all-wheel drive you will need to drive with light to moderate acceleration, for 10 seconds, in a straight line. This action will allow the vehicle to detect the compact spare tire and disable the all-wheel drive system. The AWD DISABLE message will come on indicating that the all-wheel drive system is off. You may detect a slight pull during this time, but this is normal. Damage to the all-wheel drive system will occur, if the vehicle is driven for an extended period with a compact spare tire installed and the all-wheel drive system in operation. See "All-Wheel Drive System" and "AWD Disable Warning Message" in the Index for more information.

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. If your vehicle has traction control, 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.

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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:



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 Index.



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

Gasoline Octane

Use regular unleaded gasoline with a posted octane of 87 or higher. If the octane is less than 87, you may get a heavy knocking noise when you drive. If it is bad enough, it can damage your engine. A little pinging noise when you accelerate or drive uphill is considered normal. This does not indicate a problem exists or that a higher-octane fuel is necessary.

Gasoline Specifications

It is recommended that gasoline meet specifications which were developed by the American Automobile Manufacturers Association and endorsed by the Canadian Vehicle Manufacturers' Association for better vehicle performance and engine protection. Gasolines meeting these specifications could provide improved driveability and emission control system performance compared to other gasolines.



Canada Only

In Canada, look for the “Auto Makers’ Choice” label on the pump.

California Fuel

If your vehicle is certified to meet California Emission Standards (see the underhood emission control label), it is designed to operate on fuels that meet California specifications. If this fuel is 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 may turn on (see “Malfunction Indicator Lamp” in the Index) and your vehicle may fail a smog-check test. If this occurs, return to your authorized GM dealer for diagnosis. If it is determined that the condition is caused by the type of fuel used, repairs may not be covered by your warranty.

Additives

Some gasolines that are not reformulated for low emissions may contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT); ask the attendant where you buy gasoline whether the fuel contains MMT. General Motors does not recommend the use of such gasolines. Fuels containing MMT can reduce the life of spark plugs and the performance of the emission control system may be affected. The malfunction indicator lamp may turn on. If this occurs, return to your authorized GM dealer for service.

To provide cleaner air, all gasolines in the United States are now required to contain additives that will help prevent engine and fuel system deposits from forming, allowing your emission control system to work properly. You should not have to add anything to your fuel. 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 fuel containing methanol. 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.

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 fuel cap is located on the driver's side of the vehicle.



While refueling, let the fuel cap hang by the tether as shown.

To remove the fuel cap, turn it slowly to the left (counterclockwise). The fuel 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 cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel 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 fuel 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.

The malfunction indicator lamp (SERVICE ENGINE SOON or CHECK ENGINE light) will come on if the fuel cap is not properly installed.

NOTICE:

If you need a new fuel 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 may damage your fuel tank and emissions system. 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 fuel, 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

To open the hood, do the following:



1. Pull the hood release handle, located on the driver's side under the instrument panel.

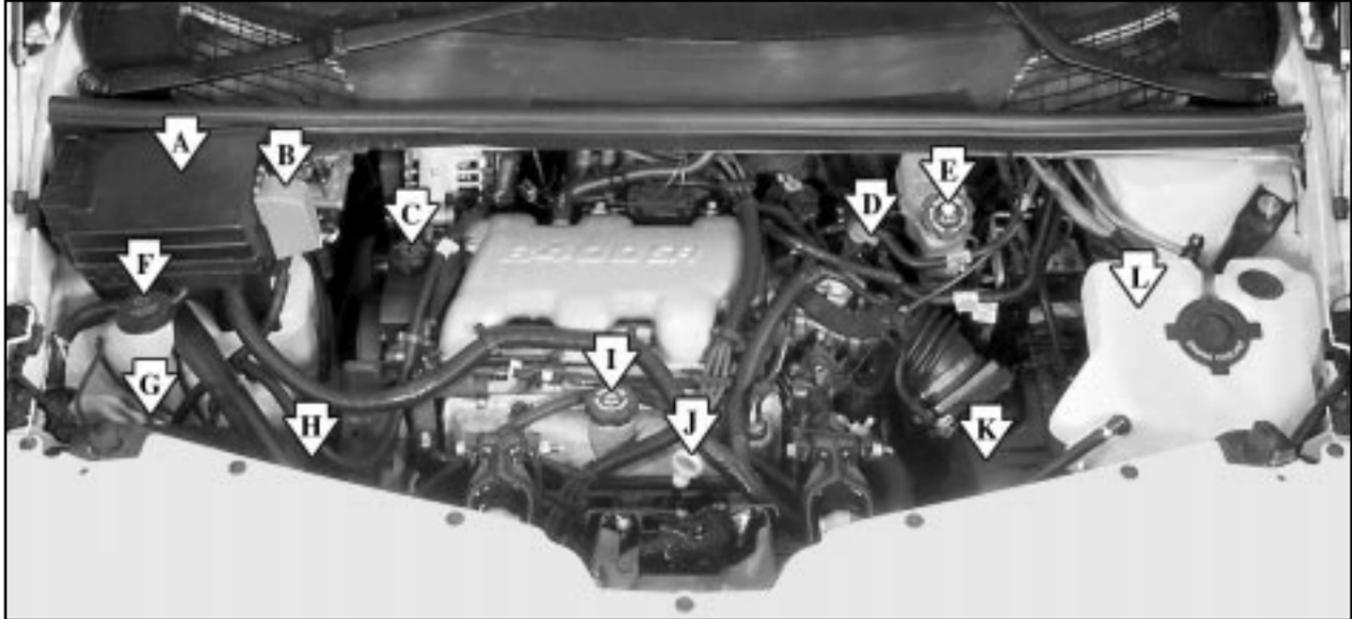


2. Go to the front of the vehicle and slide the secondary hood release from left to right.
3. Lift the hood.

Before closing the hood, be sure all filler caps are on properly, then let the hood down and close it firmly.

Engine Compartment Overview

When you lift the hood, you'll see these items:



A. Underhood Fuse Block

B. Remote Positive (+) Terminal

C. Power Steering Fluid Reservoir

D. Automatic Transaxle
Fluid Dipstick

E. Brake Master Cylinder

F. Windshield Washer
Fluid Reservoir

G. Battery

H. Radiator Pressure Cap

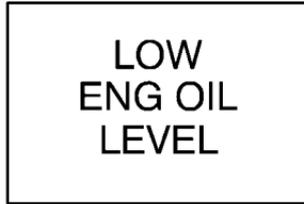
I. Engine Oil Fill Cap

J. Engine Oil Dipstick

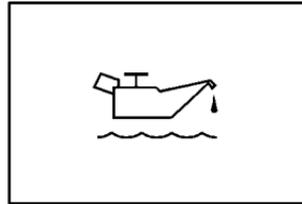
K. Engine Air Cleaner/Filter

L. Engine Coolant Reservoir

Engine Oil



United States



Canada

If the low engine oil level message appears on the instrument cluster, it means you need to check your engine oil level right away. For more information, see “Low Engine Oil Level Message” in the Index.

You should check your engine oil level regularly; this is an added reminder.

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.

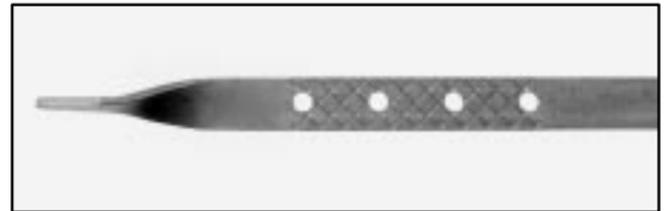


The engine oil dipstick is located at the front of the engine compartment, near the center. The dipstick handle has a bright, yellow loop design for easy identification.

See “Engine Compartment Overview” in the Index for more information on location.

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 below the cross-hatched area, 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 engine oil 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 cross-hatched area that shows the proper operating range, your engine could be damaged.



The engine oil fill cap is located just behind the engine oil dipstick. Your vehicle may have a cap with text and a graphic or just a graphic as shown above. See "Engine Compartment Overview" in the Index for more information on location.

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

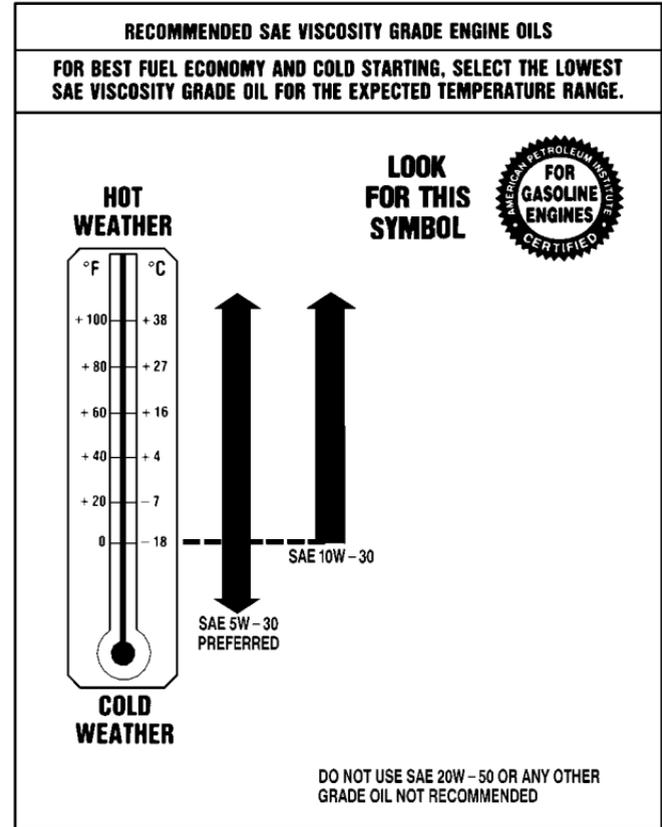
Oils recommended for your vehicle can be identified by looking for the starburst symbol.

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 in the chart shown previously, 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 (GM Oil Life System™)

Your vehicle has a computer system that lets you know when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on mileage. Based on driving conditions, the mileage at which an oil change will be indicated can vary considerably. For the oil life system to work properly, you must reset the system every time the oil is changed.

When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary. A change engine oil message will come on. Change your oil as soon as possible within the next two times you stop for fuel. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, your engine oil and filter must be changed at least once a year and at this time the system must be reset. It is also important to check your oil regularly and keep it at the proper level.

If the system is ever reset accidentally, you must change your oil at 3,000 miles (5 000 km) since your last oil change. Remember to reset the oil life system whenever the oil is changed.

How to Reset the Change Engine Oil Message

The GM Oil Life System™ calculates when to change your engine oil and filter based on vehicle use. Anytime your oil is changed, reset the system so it can calculate when the next oil change is required. If a situation occurs where you change your oil prior to a change engine oil message being turned on, reset the system.

If your vehicle does not have the optional Driver Information Center (DIC), do the following:

1. With the ignition switch in ON but the engine off, fully push and release the accelerator pedal slowly three times within five seconds.
2. Turn the key to OFF.

If the CHANGE ENGINE OIL message comes back on, the engine oil life monitor has not reset. Repeat the procedure.

If your vehicle has the optional DIC, do the following:

1. Turn the ignition to ON with the engine off.
2. Press the MODE button until the DIC reads OIL LIFE LEFT/HOLD SET TO RESET.

3. Press and hold the SET button until 100% is displayed.

You will hear three chimes and the CHANGE ENGINE OIL message will go off. If the CHANGE ENGINE OIL message comes back on, the system has not reset. Repeat the procedure.

What to Do with Used Oil

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 threat to the environment. If you change your own oil, be sure to drain all the oil from the filter before disposal. Never 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 at the front of the engine compartment on the driver's side of the vehicle, under the engine coolant reservoir.

See “Engine Compartment Overview” in the Index for more information on location.

Checking or Replacing the Engine Air Cleaner/Filter

To check or replace the filter, do the following:

1. Remove the two clamps on the duct.
2. Remove the duct.
3. Unlatch the two hooks on top of the engine air cleaner/filter housing.
4. Remove and replace the engine air cleaner/filter.
5. Align the tabs located on the bottom of the panel with the slots at the of the housing.
6. Latch the hooks to secure the panel in place. If the panel moves easily, check that the tabs are seated correctly in the slots.
7. Put the duct back on and reinstall the clamps.



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 (If Equipped)

Passenger compartment air, both outside and recirculated air, is routed through a passenger compartment filter, which is part of a two-piece filter system. The filter removes certain contaminants from the air, including pollen and dust particles, as well as odors such as exhaust or fuel fumes. Reductions in airflow, which may occur more quickly in dusty areas, indicate that the filter needs to be replaced early. For how often to change the air filter, see "Scheduled Maintenance" in the Index.

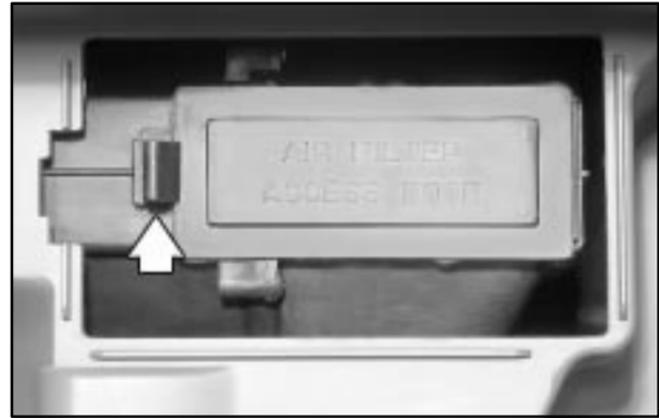
The access panel for the passenger compartment air filter is located in the back of the glove box.

To replace the filter, do the following:

1. Open the glove box.



2. Pull the tab up and out on the outer access panel.



3. Then squeeze the tab on the left of the inner access panel to open the door.
4. The first air filter will pull straight out. To remove the second, reach in and slide it toward the opening. Pull the second filter out.

5. Replace the filters by reversing Step 4. Make sure the filters are inserted so that the sealing foam is angled in the same direction on both filters.

For the type of filter to use, see “Normal Maintenance Replacement Parts” in the Index.

6. Close the inner access door, while squeezing the tab. Be sure it is tightly closed.
7. Snap the outer access panel into the back of the glove box.

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.

If you do not use your vehicle under any of these conditions, change the fluid and filter at 100,000 miles (166 000 km).

See “Scheduled Maintenance Services” in the Index.

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. Too little fluid could cause the transaxle to overheat. 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.

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:



The dipstick is located toward the back of the engine compartment, next to the brake master cylinder.

The dipstick handle is a bright red loop. See “Engine Compartment Overview” in the Index for more information on location.

1. 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.

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 Index.

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.

All-Wheel Drive (Option)

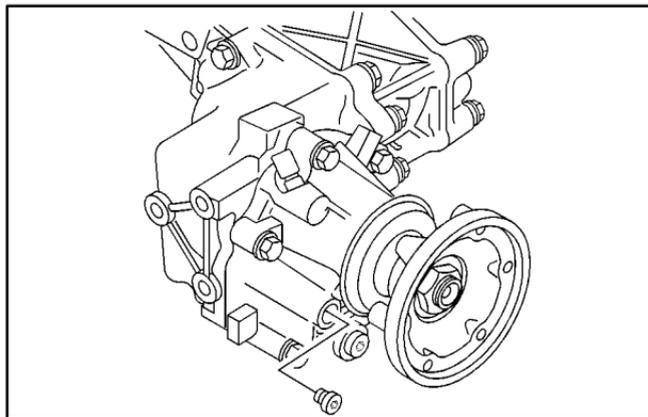
If you have an all-wheel-drive vehicle, be sure to perform the lubricant checks described in this section. However, they have two additional systems that need lubrication.

Transfer Case (Power Transfer Unit)

When to Check Lubricant

Refer to the Maintenance Schedule to determine how often to check the lubricant. See “Periodic Maintenance Inspections” in the Index.

How to Check Lubricant



To get an accurate reading, the vehicle should be on a level surface.

If the level is below the bottom of the filler plug hole, you'll need to add some lubricant. Add enough lubricant to raise the level to the bottom of the filler plug hole.

What to Use

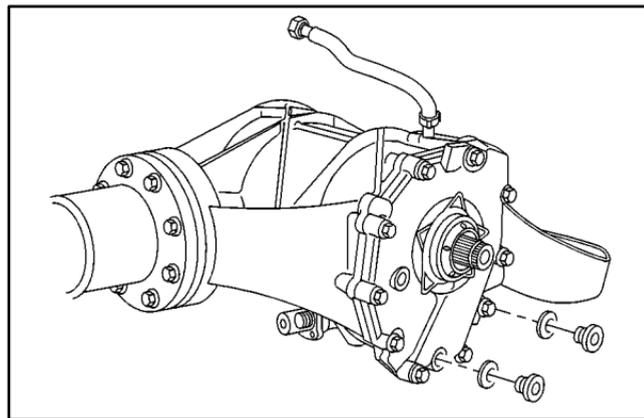
Refer to the Maintenance Schedule to determine what kind of lubricant to use. See “Recommended Fluids and Lubricants” in the Index.

Carrier Assembly-Differential (Rear Drive Module)

When to Check and Change Lubricant

Refer to the Maintenance Schedule to determine how often to check the lubricant and when to change it. See “Scheduled Maintenance Services” in the Index.

How to Check Lubricant



To get an accurate reading, the vehicle should be on a level surface.

If the level is below the bottom of the filler plug hole, you'll need to add some lubricant. Add enough lubricant to raise the level to the bottom of the filler plug hole. A fluid loss could indicate a problem; check and have it repaired, if needed.

What to Use

Refer to the Maintenance Schedule to determine what kind of lubricant to use. See “Recommended Fluids and Lubricants” in the Index.

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 such as 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 engine coolant reservoir is located in the engine compartment on the driver's side of the vehicle. See "Engine Compartment Overview" in the Index for more information on location.

The vehicle must be on a level surface. When your engine is cold, the coolant level should be at FULL COLD, or a little higher. When your engine is warm, the level should be above the FULL COLD mark or a little higher.

Adding Coolant

If you need more coolant, add the proper DEX-COOL[®] coolant mixture *at the coolant recovery tank*.

CAUTION:

Turning the radiator pressure cap when the engine and radiator are hot can allow steam and scalding liquids to blow out and burn you badly. With the coolant recovery tank, you will almost never have to add coolant at the radiator. Never turn the radiator pressure cap -- even a little -- when the engine and radiator are hot.

Add coolant mixture at the recovery tank, but be careful not to spill it.

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.

Occasionally check the coolant level in the radiator. For information on how to add coolant to the radiator, see "Cooling System" in the Index.

Radiator Pressure Cap

NOTICE:

Your radiator 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 arrows on the cap line up with the overflow tube on the radiator filler neck.

See “Engine Compartment Overview” in the Index for more information on location.

Power Steering Fluid



The power steering fluid reservoir is located to the right of the remote positive (+) terminal, at the back of the engine compartment.

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. See “Engine Compartment Overview” in the Index for reservoir location.

How to Check Power Steering Fluid

Turn the key off, let the engine compartment cool down, 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.

When the engine compartment is hot, the level should be at the H (hot) mark. When it's cold, the level should be at the C (cold) mark. If the fluid is at the ADD mark, you should add fluid.

What to Use

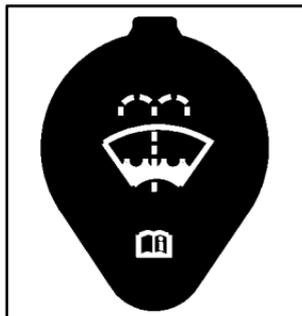
To determine what kind of fluid to use, see "Recommended Fluids and Lubricants" in the Index. Always use the proper fluid. Failure to use the proper fluid can cause leaks and damage hoses and seals.

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. See "Engine Compartment Overview" in the Index for reservoir location.

Adding Washer Fluid



Open the cap with the washer symbol on it. 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 is located in the engine compartment on the driver's side of the vehicle.

Your brake master cylinder reservoir is filled with DOT-3 brake fluid. See “Engine Compartment Overview” in the Index for the location of the reservoir.

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. See “Checking Brake Fluid” in this section.

BRAKE

United States



Canada

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. Refer to “Recommended Fluids and Lubricants” in the Index. Use new brake fluid from a sealed container only.

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 tighten wheel nuts in the proper sequence to GM torque specifications.

Brake linings should always be replaced as complete axle sets.

See “Brake System Inspection” in Section 7 of this manual 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 need 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. See "Engine Compartment Overview" in the Index for battery location.

WARNING: Battery posts, terminals and related accessories contain lead and lead compounds, chemicals known to the State of California to cause cancer and reproductive harm. Wash hands after handling.

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 type of bulbs, 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. Open the hood.



2. Push in on the headlamp and lift up the headlamp retaining clip partway, but do not remove.

3. Unsnap the headlamp assembly by pulling it forward, away from the vehicle.
4. Disconnect the electrical connector by pulling back on the locking tab, located on the electrical connector, to separate the two connectors.



5. Remove the bulb access cover.

6. Turn the bulb socket one-quarter of a turn clockwise.
7. Pull the bulb assembly out from the lamp housing.

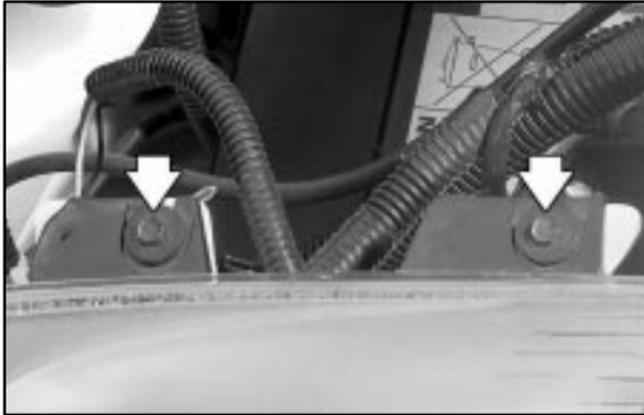


8. Unhook the electrical connector by lifting up the gray tabs and separate the connector from the bulb base.

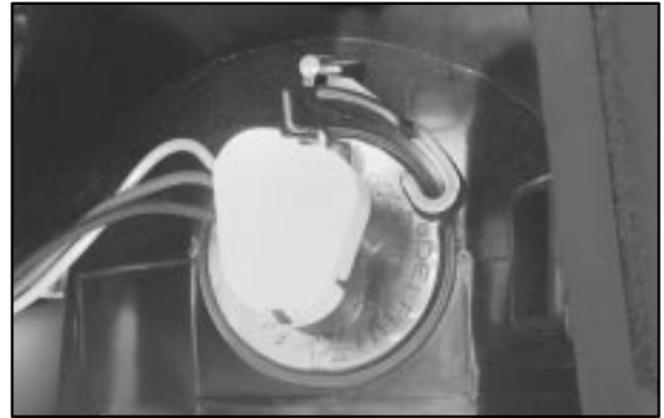
9. Install the new bulb into the electrical connector. Push the bulb firmly enough so that the gray tabs hook over the tab on the bulb.
10. Carefully put the bulb assembly back into the lamp housing and turn the bulb socket one-quarter of a turn counterclockwise.
11. Reinstall the bulb access cover making sure it is in place.
12. Align the retaining clips on the back of the headlamp with the rectangular holes in the mounting panel.
13. Push firmly on both ends of the headlamp to snap it into position.
14. Push the retaining clip down to its original position.

Front Turn Signal/Parking/Sidemarkers Lamps

1. Open the hood.



2. Remove the two inboard screws attaching the lamp to the fender bracket.
3. Unsnap the lamp assembly by lifting straight up.
4. Pull the lamp assembly away from the vehicle.



5. Unscrew the bulb socket from the lamp assembly by pressing the tab while turning it counterclockwise.

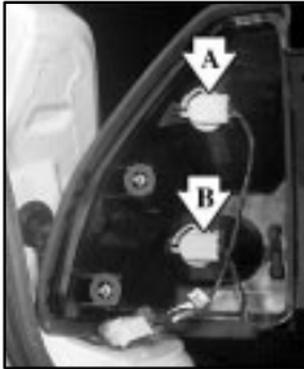
6. Replace the bulb by pulling the old one out and gently pushing the new one into the lamp socket.
7. Line up the tabs on the socket with the gaps in the socket holes and screw the bulb socket back into the lamp housing until a click is heard (the tab popping back out).
8. To reinstall the lamp assembly, align the tapered pin on the bottom of the lamp with the plastic socket on the fender bracket. Push down until the pin snaps into the socket.
9. Reinstall the two screws that were removed in Step 2.

Stop Lamps/Taillamps/Back-up Lamps

1. Open the liftgate and the tailgate.
2. Remove the two screws from the taillamp housing.



3. Gently turn the lamp outboard, then pull the assembly firmly rearward.



- A. Stop/Taillamps
- B. Back-up Lamps

4. Unscrew the bulb socket from the lamp assembly by pressing the tab while turning the bulb socket counterclockwise.

5. Replace the bulb by pulling the old one out and gently pushing the new one into the bulb socket.
6. Line up the tabs on the bulb socket with the gaps in the socket holes and screw the bulb socket back into the lamp housing. You will hear a click.
7. To reinstall, align the pins on the back of the lamp with the sockets on the outboard side of the lamp opening.
8. Push forward until the pins snap into the socket.
9. Reinstall the screws removed in Step 2.

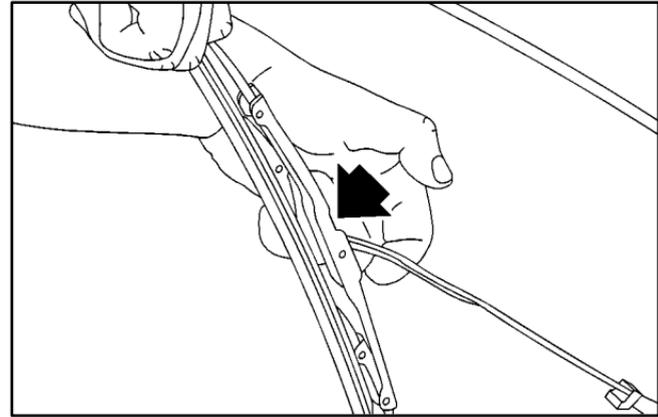
Windshield Wiper Blade Replacement

Windshield wiper blades should be inspected at least twice a year for wear or cracking. See “Wiper Blade Check” in the Index for more information.

Replacement blades come in different types and are removed in different ways. For proper type and length, see “Normal Maintenance Replacement Parts” in the Index.

Here’s how to remove the wiper blades:

1. Turn the wipers on to the lowest intermittent setting.
2. Turn off the ignition while the wipers are at the outer positions of the wipe pattern. The blades are more accessible for removal/replacement while in this position.
3. Pull the windshield wiper arm away from the windshield or backglass.



4. Push the release clip, located at the connecting point of the blade and the arm, in the up position. Then, pull the blade assembly down toward the glass to remove it from the wiper arm.
5. Push the new wiper blade securely on the wiper arm until you hear the release clip “click” 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 Pontiac 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.**

Inflation -- Tire Pressure

The Certification/Tire label, which is 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).

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

NOTICE: (Continued)

NOTICE: (Continued)

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

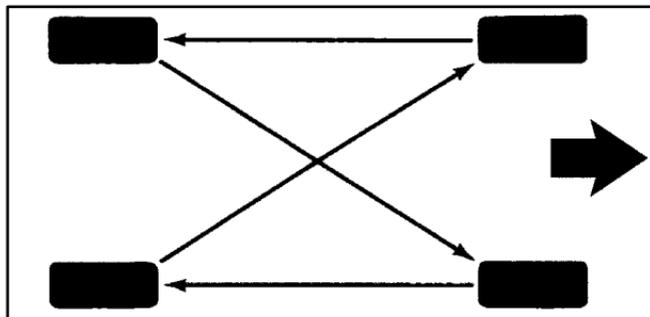
Use a good quality pocket-type gage to check tire pressure. You can't tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they're underinflated.

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. Make sure the spare tire is stored securely. Push, pull, and then try to rotate or turn the tire. If it moves, use the folding wrench to tighten the cable. See “Storing a Flat or Spare Tire and Tools” in the Index.

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 Index for scheduled rotation intervals.



When rotating your tires, always use the correct rotation pattern shown here.

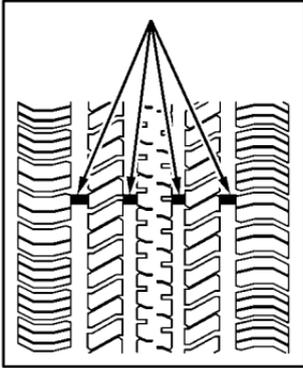
Don’t include the compact spare tire in your tire rotation.

After the tires have been rotated, adjust the front and rear inflation pressures as shown on the Certification/Tire 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 Certification/Tire 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

Quality grades can be found where applicable on the tire sidewall between tread shoulder and maximum section width. For example:

Treadwear 200 Traction AA Temperature A

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 a crash. If you have to replace a wheel, use a new GM original equipment wheel.

Tire Chains

CAUTION:

If your vehicle has P215/70R16 or P235/55R17 size tires, don't use tire chains, there's not enough clearance.

Tire chains used on a vehicle without the proper amount of clearance can cause damage to the brakes, suspension or other vehicle parts.

CAUTION: (Continued)

CAUTION: (Continued)

The area damaged by the tire chains could cause you to lose control of your vehicle and you or others may be injured in a crash.

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 for front-wheel-drive vehicles. If your vehicle has all-wheel drive, install traction devices on either the front tires or all four tires, but never on the rear tires only.

NOTICE:

If your vehicle has a tire size other than P215/70R16 or P235/55R17 size 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, or for all-wheel-drive vehicles, the front or all four (but never rear only) 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 cleaners for the cleaning of 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.

Using Cleaner on Fabric

1. Vacuum and brush the area to remove any loose dirt.
2. Always clean a whole trim panel or section. Mask surrounding trim along stitch or welt lines.
3. Follow the directions on the container label.
4. Apply cleaner with a clean sponge. Don't saturate the material and don't rub it roughly.
5. As soon as you've cleaned the section, use a sponge to remove any excess cleaner.
6. Wipe cleaned area with a clean, water-dampened towel or cloth.
7. Wipe with a clean cloth and let dry.

Special Fabric Cleaning Problems

Stains caused by such things as catsup, coffee (black), egg, fruit, fruit juice, milk, soft drinks, vomit, urine and blood can be removed as follows:

1. Carefully scrape off excess stain, then sponge the soiled area with cool water.
2. If a stain remains, follow the cleaner instructions described earlier.
3. If an odor lingers after cleaning vomit or urine, treat the area with a water/baking soda solution: 1 teaspoon (5 ml) of baking soda to 1 cup (250 ml) of lukewarm water.
4. Let dry.

Stains caused by candy, ice cream, mayonnaise, chili sauce and unknown stains can be removed as follows:

1. Carefully scrape off excess stain.
2. First, clean with cool water and allow to dry completely.
3. If a stain remains, follow the cleaner instructions described earlier.

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.

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.

NOTICE:

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 a full-strength glass cleaning liquid. 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 Index.

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 only 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 aluminum 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, Pontiac 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 or stainless steel.
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.
1052929	16 oz. (0.473 L)	Chrome and Wire Wheel Cleaner	Removes dirt and grime from chrome wheels and wire wheel covers.
12377964	16 oz. (0.473 L)	Finish Enhancer	Removes dust, fingerprints and surface contaminants. Spray on wipe off.
12377965	16 oz. (0.473 L)	Swirl Remover Polish	Removes swirl marks, fine scratches and other light surface contamination.
12377966	16 oz. (0.473 L)	Cleaner Wax	Removes light scratches and oxidation and protects finish.
12378188	15 oz. (0.443 L)	Foaming Tire Shine–Low Gloss	Cleans, shines and protects in one easy step. No wiping necessary.
12378401	16 oz. (0.473 L)	Wash Wax Concentrate	Medium foaming shampoo. Cleans and lightly waxes. Biodegradable and phosphate free.
12378488	8 oz. (0.237 L)	Spot Lifter	Quickly and easily removes spots and stains from carpets, vinyl and cloth upholstery.
<p>See your General Motors parts department for these products. See "Recommended Fluids and Lubricants" in the Index.</p>			

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 inside of the access panel, located on the driver's side of the rear of the vehicle. 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 is protected by different fuses located in the underhood fuse block. An electrical overload may cause the lamps to go off and remain that way. If this happens, replace the right fuse with one of the same kind and correct amperage.

Windshield Wipers

The windshield wiper motor is protected by an internal circuit breaker and a fuse. If the motor overheats due to heavy snow, etc., the wiper will stop until the motor cools. If the overload is caused by some electrical problem, be sure to get it fixed.

Power Windows and Other Power Options

Circuit breakers in the floor console fuse block protect the power windows and other power accessories. When the current load is too heavy, the circuit breaker opens and closes, protecting the circuit until the problem is fixed.

Fuses and Circuit Breakers

The wiring circuits in your vehicle are protected from short circuits by a combination of fuses, circuit breakers and fusible thermal links.

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 you ever have a problem on the road and don't have a spare fuse, you can borrow one that has the same amperage or use one of the spare fuses in the underhood fuse and relay center. Just 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 right amperage. Replace it as soon as you can.

There are two fuse blocks in your vehicle: the floor console fuse block and the underhood fuse block.

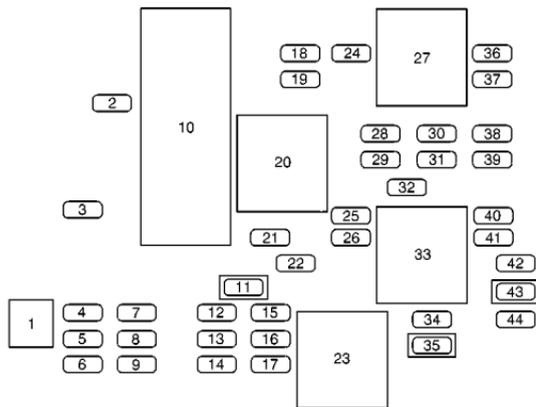
Floor Console Fuse Block



The floor console fuse block is located to the right of the shift lever.

The fuses marked spare are available if a replacement fuse is needed.

Pull the door open to access the fuse block.



Fuses	Usage
1	Fuse Puller
2	Steering Wheel Radio Controls
3	Power Door Locks
4	Spare
5	Spare
6	Spare

Fuses	Usage
7	Spare
8	Spare
9	Spare
10	Turn Signal and Hazard Lamp Flashers
11	Power Seats
12	Electronic Level Control (ELC) Compressor
13	Liftglass and Endgate
14	Rear Auxiliary Power Outlet
15	ELC Compressor Relay and Height Sensor
16	Heated Mirrors
17	Power Mirrors
18	Ignition 1 Module
19	Turn Signal Switch and NSBU Switch

Fuses	Usage
21	Rear Defogger
22	Air Bag Module
24	Canister Vent Solenoid and TCC Switch
25	HVAC Blower Motor
26	HVAC Mode and Temperature Motors and Head-Up Display
28	Not Used
29	Windshield Wipers and Washer
30	Instrument Panel Cluster, BCM, PASS-Key [®] III
31	Park Lock Ignition Key Solenoid
32	Not Used
34	Power Sunroof
35	Power Windows
36	Map Lamps, Courtesy Lamps and Instrument Panel Lights

Fuses	Usage
37	Radio
38	UQ3 Radio Amplifier
39	Head-Up Display
40	Hazard Flashers
41	Instrument Panel Cluster, HVAC Control, Security LED and Remote Keyless Entry Module
42	PASS-Key [®] III
44	Body Control Module (BCM)
	Relays
20	Rear Defogger Relay
23	IGN3 Relay
27	Accessory Relay
33	Retained Accessory Power Relay
	Diode
43	Accessory Diode

Underhood Fuse Block

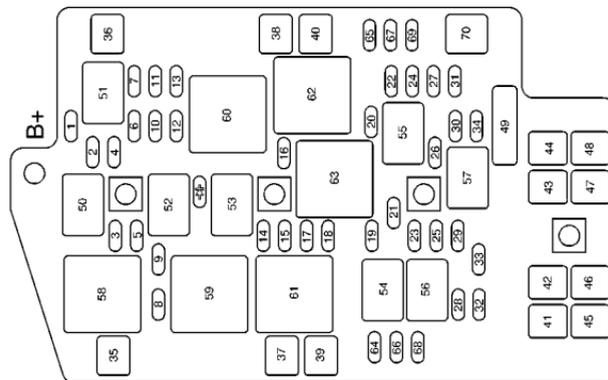


This fuse block is located in the engine compartment, to the rear of the windshield washer fluid reservoir.

See “Engine Compartment Overview” in the Index for more information on location.

The fuses marked spare are available if a replacement fuse is needed.

To remove the cover, press the two tabs in and lift up the cover.



Mini Fuses

Usage

- | | |
|---|---|
| 1 | Fuel Pump |
| 2 | Air Conditioning
Compressor Clutch |
| 3 | Horn |
| 4 | Engine Controls - Emissions
and Sensors |
| 5 | Power Control Module
(PCM) - Battery Power |

Mini Fuses	Usage	Mini Fuses	Usage
6	Anti-Lock Brakes (ABS) Control Module	21	Air Pump - Emissions Controls
7	Transaxle Solenoids	22	Spare
8	Spare	23	Passenger's High-Beam Headlamp
9	ABS Solenoid Valves	24	Spare
10	Oxygen Sensors - Emissions Control	25	Spare
11	Injectors	26	Front Fog Lamps
12	Spare	27	Ignition Relay, Neutral Start Switch, Powertrain Control Module (PCM)
13	Engine Controls	28	Battery Control Module - Battery Power
14	Daytime Running Lamps (DRL)	29	Spare
15	Passenger's Low-Beam Headlamp	30	All-Wheel Drive (AWD) Module
16	Spare	31	Cruise Control
17	Driver's Low-Beam Headlamp	32	Front Power Outlets, Cigar Lighter, OnStar [®]
18	Driver's High-Beam Headlamp	33	Automatic Transaxle Shift Lock Control System
19	Ignition Switch Battery Power	34	Spare
20	Parking Lamps - Front and Rear		

J-Style Fuse	Usage
35	Starter Solenoid Battery Fuse
36	ABS Motor
37	Spare
38	Spare
39	Engine Cooling Fan
40	Engine Cooling Fan
41	Main Battery Fuse for Retained Accessory Power Relay and Accessory Relay
42	Main Battery Fuse for Heated Seats, Air
43	Spare
44	Spare
45	Main Battery Fuse for Power Outlets, Level Control, Power Seats and Mirrors and Body Computer
46	Spare

J-Style Fuse	Usage
47	Main Battery Fuse for HVAC Blower and Ignition 3 relay
48	Main Battery fuse for Ignition Switch, Radio, Heads-Up Display, Remote Keyless Entry, Instrument Cluster, Air Conditioning and Body Computer
Maxi Breaker Usage	
49	Spare
Micro Relay Usage	
50	Horn
51	Fuel Pump
52	Air Conditioning Clutch
53	Daytime Running Lamps (DRL)
54	Low-Beam Headlamps
55	Parking Lamps
56	High-Beam Headlamps
57	Fog Lamps

Mini Relay	Usage
58	Starter Relay
59	Cooling Fan
60	Ignition 1 Relay
61	Cooling Fan
62	Cooling Fan
63	Air Pump

Spare Fuses	Usage
64	Spare
65	Spare
66	Spare
67	Spare
68	Spare
69	Spare

Fuse Puller

70 Fuse Puller

Diode



Diode for Air Conditioning
Compressor Clutch

Replacement Bulbs

Headlamps	
High-beam	9005
Low-beam	9006
Front Turn Signal/Parking/ Sidemarker Lamps	3057NA
Stop/Taillamps (Top)	3057K
Back-up Lamps (Bottom)	3155K

Capacities and Specifications

The following approximate capacities are given in English and metric conversions.

Please refer to “Recommended Fluids and Lubricants” in the Index for more information.

Automatic Transaxle

Pan Removal and Replacement	7.4 quarts (7.0 L)
Complete Overhaul	10.0 quarts (9.5 L)

AWD Automatic Transaxle

Pan Removal and Replacement	8.7 quarts (8.2 L)
Complete Overhaul	10.8 quarts (10.2 L)

Rear Differential Fluid

Capacity	2.1 quarts (2.0 L)
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Transfer Case Fluid

Capacity	0.613 pints (290.1 ml)
----------------	------------------------

Cooling System

9.6 quarts (9.1 L)

Engine Oil with Filter

4.5 quarts (4.3 L)

Fuel Capacity

18.0 U.S. gallons (68.1 L)

Wheel Nut Torque

100 lb-ft (140 N-m)

All capacities are approximate. When adding, be sure to fill to the appropriate level, as recommended in this manual.

Engine Specifications

Engine VIN Code	E
Engine Type	V6
Firing Order	1-2-3-4-5-6

Air Conditioning Refrigerant Capacity

If you do your own service work, you'll need the proper service manual. See "Doing Your Own Service Work" in the Index for additional information. It is recommended that service work on your air conditioning system be performed by a qualified technician.

Air Conditioning Refrigerant R134a	1.7 lbs. (0.8 kg)
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Use Refrigerant Oil, R134a Systems

Normal Maintenance Replacement Parts

Engine Air Cleaner/Filter	1208C *
Engine Oil Filter	PF 47 *
Passenger Compartment Air Filter Kit ...	10302760
Spark Plugs	41-940 *
	Gap: 0.060 inches (1.5 mm)
Windshield Wiper Blade	
Driver's Side Length	24.0 inches (61.0 cm)
Passenger's Side Length	22.0 inches (55.9 cm)
Type	Shepherd's Hook

* ACDelco[®] part number.



Section 7 Maintenance Schedule

This section covers the maintenance required for your vehicle. Your vehicle needs these services to retain its safety, dependability and emission control performance.

7-2	Introduction	7-20	Part C: Periodic Maintenance Inspections
7-4	Part A: Scheduled Maintenance Services	7-22	Part D: Recommended Fluids and Lubricants
7-5	Scheduled Maintenance	7-24	Part E: Maintenance Record
7-15	Part B: Owner Checks and Services		

IMPORTANT:
KEEP ENGINE OIL
AT THE PROPER
LEVEL AND CHANGE AS
RECOMMENDED



***Protection
Plan***

Have you purchased the GM Protection Plan? The Plan supplements your new vehicle warranties. See your Warranty and Owner Assistance booklet or your dealer for details.

Introduction

Your Vehicle and the Environment

Proper vehicle maintenance not only helps to keep your vehicle in good working condition, but also helps the environment. All recommended maintenance procedures are important. Improper vehicle maintenance can even affect the quality of the air we breathe. Improper fluid levels or the wrong tire inflation can increase the level of emissions from your vehicle. To help protect our environment, and to keep your vehicle in good condition, please maintain your vehicle properly.

Maintenance Requirements

Maintenance intervals, checks, inspections and recommended fluids and lubricants as prescribed in this manual are necessary to keep your vehicle in good working condition. Any damage caused by failure to follow recommended maintenance may not be covered by warranty.

How This Section is Organized

This maintenance schedule is divided into five parts:

“Part A: Scheduled Maintenance Services” explains what to have done and how often. Some of these services can be complex, so unless you are technically qualified and have the necessary equipment, you should let your dealer’s service department or another qualified service center do these jobs.

CAUTION:

Performing maintenance work on a vehicle can be dangerous. In trying to do some jobs, you can be seriously injured. Do your own maintenance work only if you have the required know-how and the proper tools and equipment for the job. If you have any doubt, have a qualified technician do the work.

If you want to get the service information, see “Service and Owner Publications” in the Index.

“Part B: Owner Checks and Services” tells you what should be checked and when. It also explains what you can easily do to help keep your vehicle in good condition.

“Part C: Periodic Maintenance Inspections” explains important inspections that your dealer’s service department or another qualified service center should perform.

“Part D: Recommended Fluids and Lubricants” lists some recommended products necessary to help keep your vehicle properly maintained. These products, or their equivalents, should be used whether you do the work yourself or have it done.

“Part E: Maintenance Record” is a place for you to record and keep track of the maintenance performed on your vehicle. Keep your maintenance receipts. They may be needed to qualify your vehicle for warranty repairs.

Part A: Scheduled Maintenance Services

Using Your Maintenance Schedule

We at General Motors want to help you keep your vehicle in good working condition. But we don't know exactly how you'll drive it. You may drive very short distances only a few times a week. Or you may drive long distances all the time in very hot, dusty weather. You may use your vehicle in making deliveries. Or you may drive it to work, to do errands or in many other ways.

Because of all the different ways people use their vehicles, maintenance needs vary. You may need more frequent checks and replacements. So please read the following and note how you drive. If you have any questions on how to keep your vehicle in good condition, see your dealer.

This part tells you the maintenance services you should have done and when you should schedule them. If you go to your dealer for your service needs, you'll know that GM-trained and supported service people will perform the work using genuine GM parts.

The proper fluids and lubricants to use are listed in Part D. Make sure whoever services your vehicle uses these. All parts should be replaced and all necessary repairs done before you or anyone else drives the vehicle.

This schedule is for vehicles that:

- carry passengers and cargo within recommended limits. You will find these limits on your vehicle's Certification/Tire label. See "Loading Your Vehicle" in the Index.
- are driven on reasonable road surfaces within legal driving limits.
- use the recommended fuel. See "Fuel" in the Index.

Scheduled Maintenance

The services shown in this schedule up to 100,000 miles (166 000 km) should be repeated after 100,000 miles (166 000 km) at the same intervals for the life of this vehicle. The services shown at 150,000 miles (240 000 km) should be repeated at the same interval after 150,000 miles (240 000 km) for the life of this vehicle.

See “Owner Checks and Services” and “Periodic Maintenance Inspections” following.

Footnotes

† *The U.S. Environmental Protection Agency or the California Air Resources Board has determined that the failure to perform this maintenance item will not nullify the emission warranty or limit recall liability prior to the completion of the vehicle’s useful life. We, however, urge that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded.*

+ *A good time to check your brakes is during tire rotation. See “Brake System Inspection” under “Periodic Maintenance Inspections” in Part C of this schedule.*

Scheduled Maintenance

Engine Oil and Chassis Lubrication Scheduled Maintenance

Change engine oil and filter as indicated by the GM Oil Life System™ (or every 12 months, whichever occurs first). Reset the system.

Your vehicle has a computer system that lets you know when to change the engine oil and filter. This is based on engine revolutions and engine temperature, and not on mileage. Based on driving conditions, the mileage at which an oil change will be indicated can vary considerably. For the oil life system to work properly, you must reset the system every time the oil is changed.

When the system has calculated that oil life has been diminished, it will indicate that an oil change is necessary. A change engine oil message will come on.

Change your oil as soon as possible within the next two times you stop for fuel. It is possible that, if you are driving under the best conditions, the oil life system may not indicate that an oil change is necessary for over a year. However, your engine oil and filter must be changed at least once a year and at this time the system must be reset. It is also important to check your oil regularly and keep it at the proper level.

If the system is ever reset accidentally, you must change your oil at 3,000 miles (5 000 km) since your last oil change. Remember to reset the oil life system whenever the oil is changed. See “Oil Life System” in the Index for information on resetting the system.

An Emission Control Service.

Lubricate chassis components with each engine oil and filter change. Lubricate the suspension, steering linkage, transaxle shift linkage, and the underbody contact points and linkage.

Scheduled Maintenance

ENGINE OIL CHANGE		
DATE	ACTUAL MILEAGE	SERVICED BY:

ENGINE OIL CHANGE		
DATE	ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

ENGINE OIL CHANGE		
DATE	ACTUAL MILEAGE	SERVICED BY:

ENGINE OIL CHANGE		
DATE	ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

7,500 Miles (12 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

15,000 Miles (25 000 km)

- Inspect engine air cleaner filter if you are driving in dusty conditions. Replace filter if necessary.
An Emission Control Service. (See footnote †.)
- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

22,500 Miles (37 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

DATE	
ACTUAL MILEAGE	SERVICED BY:

DATE	
ACTUAL MILEAGE	SERVICED BY:

DATE	
ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

30,000 Miles (50 000 km)

- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)
- Replace engine air cleaner filter.
An Emission Control Service.

DATE	
ACTUAL MILEAGE	SERVICED BY:

37,500 Miles (62 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

DATE	
ACTUAL MILEAGE	SERVICED BY:

45,000 Miles (75 000 km)

- Inspect engine air cleaner filter if you are driving in dusty conditions. Replace filter if necessary.
An Emission Control Service. (See footnote †.)
- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

DATE	
ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

50,000 Miles (83 000 km)

- Change automatic transaxle fluid and filter 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.

If you do not use your vehicle under any of these conditions, change the fluid and filter at 100,000 miles (166 000 km).

DATE	
ACTUAL MILEAGE	SERVICED BY:

52,500 Miles (87 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

DATE	
ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

60,000 Miles (100 000 km)

- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)
- Inspect engine accessory drive belt.
An Emission Control Service.
- Replace engine air cleaner filter.
An Emission Control Service.

67,500 Miles (112 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

75,000 Miles (125 000 km)

- Inspect engine air cleaner filter if you are driving in dusty conditions. Replace filter if necessary.
An Emission Control Service. (See footnote †.)
- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

DATE	
ACTUAL MILEAGE	SERVICED BY:

DATE	
ACTUAL MILEAGE	SERVICED BY:

DATE	
ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

82,500 Miles (137 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

DATE	
ACTUAL MILEAGE	SERVICED BY:

90,000 Miles (150 000 km)

- If Equipped: Replace passenger compartment air filter. If you drive regularly under dusty conditions, the filter may require replacement more often.
- Replace engine air cleaner filter.
An Emission Control Service.
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

DATE	
ACTUAL MILEAGE	SERVICED BY:

97,500 Miles (162 500 km)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

DATE	
ACTUAL MILEAGE	SERVICED BY:

Scheduled Maintenance

100,000 Miles (166 000 km)

- Inspect spark plug wires.
An Emission Control Service.
- Replace spark plugs.
An Emission Control Service.
- Change automatic transaxle fluid and filter 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.
- If you haven't used your vehicle under severe service conditions listed previously and, therefore, haven't changed your automatic transaxle fluid, change both the fluid and filter.

150,000 Miles (240 000 km)

- Drain, flush and refill cooling system (or every 60 months since last service, whichever occurs first). See "Engine Coolant" in the Index for what to use. Inspect hoses. Clean radiator, condenser, pressure cap and neck. Pressure test the cooling system and pressure cap.
An Emission Control Service.

DATE	
ACTUAL MILEAGE	SERVICED BY:

DATE	
ACTUAL MILEAGE	SERVICED BY:

Part B: Owner Checks and Services

Listed in this part are owner checks and services which should be performed at the intervals specified to help ensure the safety, dependability and emission control performance of your vehicle.

Be sure any necessary repairs are completed at once. Whenever any fluids or lubricants are added to your vehicle, make sure they are the proper ones, as shown in Part D.

At Each Fuel Fill

It is important for you or a service station attendant to perform these underhood checks at each fuel fill.

Engine Oil Level Check

Check the engine oil level and add the proper oil if necessary. See “Engine Oil” in the Index for further details.

Engine Coolant Level Check

Check the engine coolant level and add DEX-COOL[®] coolant mixture if necessary. See “Engine Coolant” in the Index for further details.

Windshield Washer Fluid Level Check

Check the windshield washer fluid level in the windshield washer tank and add the proper fluid if necessary. See “Windshield Washer Fluid” in the Index for further details.

At Least Once a Month

Tire Inflation Check

Make sure tires are inflated to the correct pressures. Don't forget to check your spare tire. See “Tires” in the Index for further details.

Cassette Deck Service

Clean cassette deck. Cleaning should be done every 50 hours of tape play. See “Audio Systems” in the Index for further details.

At Least Twice a Year

Restraint System Check

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. Have any torn or frayed safety belts replaced.

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

Wiper Blade Check

Inspect wiper blades for wear or cracking. Replace blade inserts that appear worn or damaged or that streak or miss areas of the windshield. Also see “Wiper Blades, Cleaning” in the Index.

Spare Tire Check

At least twice a year, after the monthly inflation check of the spare tire determines that the spare is inflated to the correct tire inflation pressure, make sure that the spare tire is stored securely. Push, pull, and then try to rotate or turn the tire. If it moves, use the folding wrench to tighten the cable. See “Storing the Spare Tire and Tools” in the Index.

Weatherstrip Lubrication

Silicone grease on weatherstrips will make them last longer, seal better, and not stick or squeak. Apply silicone grease with a clean cloth. During very cold, damp weather more frequent application may be required. See “Recommended Fluids and Lubricants” in the Index.

Automatic Transaxle Check

Check the transaxle fluid level; add if needed. See “Automatic Transaxle Fluid” in the Index. A fluid loss may indicate a problem. Check the system and repair if needed.

At Least Once a Year

Key Lock Cylinders Service

Lubricate the key lock cylinders with the lubricant specified in Part D.

Body Lubrication Service

Lubricate all key lock cylinders, hood latch assemblies, secondary latches, pivots, spring anchor and release pawl, hood and door hinges, rear folding seats, liftgate hinges. Part D tells you what to use. More frequent lubrication may be required when exposed to a corrosive environment.

Starter Switch Check



When you are doing this check, the vehicle could move suddenly. If it does, you or others could be injured. Follow the steps below.

1. Before you start, be sure you have enough room around the vehicle.
2. Firmly apply both the parking brake and the regular brake. See “Parking Brake” in the Index if necessary.

Do not use the accelerator pedal, and be ready to turn off the engine immediately if it starts.
3. Try to start the engine in each gear. The starter should work only in PARK (P) or NEUTRAL (N). If the starter works in any other position, your vehicle needs service.

Automatic Transaxle Shift Lock Control System Check

CAUTION:

When you are doing this check, the vehicle could move suddenly. If it does, you or others could be injured. Follow the steps below.

1. Before you start, be sure you have enough room around the vehicle. It should be parked on a level surface.
2. Firmly apply the parking brake. See “Parking Brake” in the Index if necessary.

Be ready to apply the regular brake immediately if the vehicle begins to move.

3. With the engine off, turn the key to the ON position, but don't start the engine. Without applying the regular brake, try to move the shift lever out of PARK (P) with normal effort. If the shift lever moves out of PARK (P), your vehicle needs service.

Ignition Transaxle Lock Check

While parked, and with the parking brake set, try to turn the ignition key to OFF in each shift lever position.

- The key should turn to OFF only when the shift lever is in PARK (P).
- The key should come out only in OFF.

Parking Brake and Automatic Transaxle PARK (P) Mechanism Check

CAUTION:

When you are doing this check, your vehicle could begin to move. You or others could be injured and property could be damaged. Make sure there is room in front of your vehicle in case it begins to roll. Be ready to apply the regular brake at once should the vehicle begin to move.

Park on a fairly steep hill, with the vehicle facing downhill. Keeping your foot on the regular brake, set the parking brake.

- To check the parking brake's holding ability: With the engine running and transaxle in NEUTRAL (N), slowly remove foot pressure from the regular brake pedal. Do this until the vehicle is held by the parking brake only.
- To check the PARK (P) mechanism's holding ability: With the engine running, shift to PARK (P). Then release the parking brake followed by the regular brake.

Underbody Flushing Service

At least every spring, use plain water to flush any corrosive materials from the underbody. Take care to clean thoroughly any areas where mud and other debris can collect.

Part C: Periodic Maintenance Inspections

Listed in this part are inspections and services which should be performed at least twice a year (for instance, each spring and fall). *You should let your dealer's service department or other qualified service center do these jobs. Make sure any necessary repairs are completed at once.*

Proper procedures to perform these services may be found in a service manual. See "Service and Owner Publications" in the Index.

Steering, Suspension and Front Drive Axle Boot and Seal Inspection

Inspect the front and rear suspension and steering system for damaged, loose or missing parts, signs of wear or lack of lubrication. Inspect the power steering lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc. Clean and then inspect the drive axle boot seals for damage, tears or leakage. Replace seals if necessary.

Exhaust System Inspection

Inspect the complete exhaust system. Inspect the body near the exhaust system. Look for broken, damaged, missing or out-of-position parts as well as open seams, holes, loose connections or other conditions which could cause a heat build-up in the floor pan or could let exhaust fumes into the vehicle. See "Engine Exhaust" in the Index.

Fuel System Inspection

Inspect the complete fuel system for damage or leaks.

Engine Cooling System Inspection

Inspect the hoses and have them replaced if they are cracked, swollen or deteriorated. Inspect all pipes, fittings and clamps; replace as needed. Clean the outside of the radiator and air conditioning condenser. To help ensure proper operation, a pressure test of the cooling system and pressure cap is recommended at least once a year.

Throttle System Inspection

Inspect the throttle system for interference or binding, and for damaged or missing parts. Replace parts as needed. Replace any components that have high effort or excessive wear. Do not lubricate accelerator and cruise control cables.

Transfer Case (Power Transfer Unit) and Carrier Assembly - Differential (Rear Drive Module) All-Wheel Drive Inspection

Every 12 months or at engine oil change intervals, check rear differential and transfer case and add lubricant when necessary. A fluid loss could indicate a problem; check and have it repaired, if needed. Check vent hoses at transfer case and differential for kinks and proper installation.

Brake System Inspection

Inspect the complete system. Inspect brake lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc. Inspect disc brake pads for wear and rotors for surface condition. For vehicles with rear drum brakes, also inspect drum brake linings for wear and cracks. Inspect other brake parts, including drums, wheel cylinders, calipers, parking brake, etc. Check parking brake adjustment. You may need to have your brakes inspected more often if your driving habits or conditions result in frequent braking.

Part D: Recommended Fluids and Lubricants

Fluids and lubricants identified below by name, part number or specification may be obtained from your dealer.

USAGE	FLUID/LUBRICANT
Engine Oil	Engine oil with the American Petroleum Institute Certified for Gasoline Engines starburst symbol of the proper viscosity. To determine the preferred viscosity for your vehicle's engine, see "Engine Oil" in the Index.
Engine Coolant	50/50 mixture of clean, drinkable water and use only GM Goodwrench [®] DEX-COOL [®] or Havoline [®] DEX-COOL [®] Coolant. See "Engine Coolant" in the Index.

USAGE	FLUID/LUBRICANT
Hydraulic Brake System	Delco Supreme 11 [®] Brake Fluid (GM Part No. 12377967 or equivalent DOT-3 brake fluid).
Windshield Washer Solvent	GM Optikleen [®] Washer Solvent (GM Part No. 1051515) or equivalent.
Power Steering System	GM Power Steering Fluid (GM Part No. 1052884 - 1 pint, 1050017 - 1 quart, or equivalent).
Automatic Transaxle	DEXRON [®] -III Automatic Transmission Fluid.
Key Lock Cylinders	Multi-Purpose Lubricant, Superlube [®] (GM Part No. 12346241 or equivalent).

USAGE	FLUID/LUBRICANT
Chassis Lubrication	Chassis Lubricant (GM Part No. 12377985 or equivalent) or lubricant meeting requirements of NLGI # 2, Category LB or GC-LB.
Carrier Assembly - Differential (Rear Drive Module) and Transfer Case (Power Transfer Unit)	VERSATRAK Fluid (GM Part No. 12378514).

USAGE	FLUID/LUBRICANT
Hood Latch Assembly, Secondary Latch, Pivots, Spring Anchor and Release Pawl	Lubriplate [®] Lubricant Aerosol (GM Part No. 12346293 or equivalent) or lubricant meeting requirements of NLGI # 2, Category LB or GC-LB.
Hood and Door Hinges	Multi-Purpose Lubricant, Superlube [®] (GM Part No. 12346241 or equivalent).
Rear Folding Seat	Multi-Purpose Lubricant, Superlube [®] (GM Part No. 12346241 or equivalent).
Weatherstrip Conditioning	Dielectric Silicone Grease (GM Part No. 12345579 or equivalent).

Part E: Maintenance Record

After the scheduled services are performed, record the date, odometer reading and who performed the service in the boxes provided after the maintenance interval. Any additional information from “Owner Checks and Services” or “Periodic Maintenance” can be added on the following record pages. Also, you should retain all maintenance receipts. Your owner information portfolio is a convenient place to store them.

Maintenance Record			
DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED



Section 8 Customer Assistance Information

Here you will find out how to contact Pontiac if you need assistance. This section also tells you how to obtain service publications and how to report any safety defects.

8-2	Pontiac Cares	8-8	Canadian Roadside Assistance
8-2	What Makes Up Pontiac Cares?	8-8	Courtesy Transportation
8-3	Customer Satisfaction Procedure	8-10	Warranty Information
8-5	Customer Assistance for Text Telephone (TTY) Users	8-10	Reporting Safety Defects to the United States Government
8-5	Customer Assistance Offices	8-11	Reporting Safety Defects to the Canadian Government
8-6	GM Mobility Program for Persons with Disabilities	8-11	Reporting Safety Defects to General Motors
8-6	Pontiac Roadside Assistance Program		

Pontiac Cares



With PONTIAC CARES, you are never more than a phone call away from having your concern taken care of.

The PONTIAC CARES philosophy and elements are designed to make you realize that Pontiac recognizes you as a valuable customer, appreciates your purchase decision, and is dedicated to taking care of the most important person ... YOU! PONTIAC CARES is: A valuable feature that comes with every Pontiac, a feature that offers a multitude of benefits that can give you safety, security, comfort and convenience.

What Makes Up Pontiac Cares?

- A 3 year/36,000 mile (60 000 km) Bumper-to-Bumper Warranty
- Customer Assistance
- Roadside Assistance
- Courtesy Transportation

All of these elements combine to make your driving experience an enjoyable one and are discussed in greater detail in your owner's manual. Pontiac is focusing on the changing needs of our customers and is committed to giving you an exceptional level of customer care throughout your ownership experience. Our goal is to create total customer enthusiasm in our product and our services and make you the most satisfied customer in the world.

Customer Satisfaction Procedure



Your satisfaction and goodwill are important to your dealer and to Pontiac. 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 Pontiac Customer Assistance Center by calling 1-800-762-2737. 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 Pontiac, 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, you should 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 may be required to resort to this informal dispute resolution program prior to filing a 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), Pontiac has TTY equipment available at its Customer Assistance Center. Any TTY user can communicate with Pontiac by dialing: 1-800-833-PONT (7668). (TTY users in Canada can dial 1-800-263-3830.)

Customer Assistance Offices

Pontiac encourages customers to call the toll-free number for assistance. If a U.S. customer wishes to write to Pontiac, the letter should be addressed to Pontiac's Customer Assistance Center.

United States

Pontiac-GMC Customer Assistance Center
P.O. Box 33172
Detroit, MI 48232-5172

1-800-762-2737 or
1-800-833-7668 (For Text Telephone devices (TTYs))
Roadside Assistance: 1-800-ROADSIDE (762-3743)

From:

Puerto Rico: 1-800-496-9992 (English)
1-800-496-9993 (Spanish)

U.S. Virgin Islands: 1-800-496-9994
Fax Number: 313-381-0022

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: 1-800-268-6800

All Overseas Locations

Please contact the local General Motors Business Unit.

Mexico, Central America and Caribbean Islands/Countries (Except Puerto Rico and U.S. Virgin Islands)

General Motors de Mexico, S. de R.L. de C.V.
Customer Assistance Center
Paseo de la Reforma # 2740
Col. Lomas de Bezares
C.P. 11910, Mexico, D.F.

01-800-508-0000
Long Distance: 011-52 - 53 29 0 800

GM Mobility Program for Persons with Disabilities

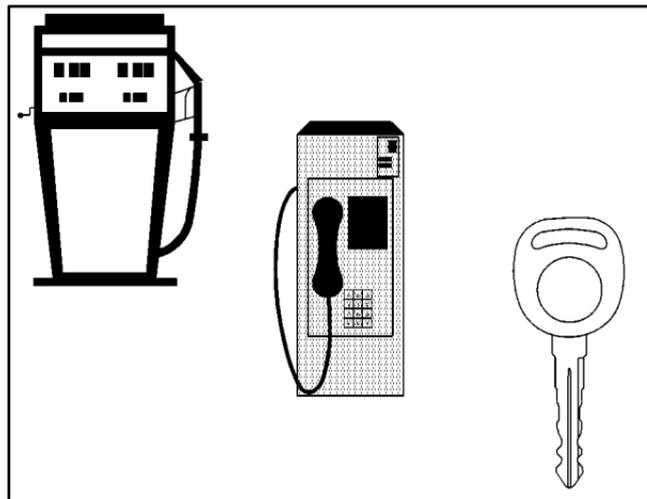


This program, available to qualified applicants, can reimburse you up to \$1,000 toward aftermarket driver or passenger adaptive equipment you may require for your vehicle (hand controls, wheelchair/scooter lifts, etc.).

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.

Pontiac Roadside Assistance Program



Security While You Travel

1-800-ROADSIDE (1-800-762-3743)

As the proud owner of a new Pontiac vehicle, you are automatically enrolled in the Pontiac Roadside Assistance program. This value-added service is intended to provide you with peace of mind as you drive in the city or travel the open road.

Pontiac's Roadside Assistance toll-free number is staffed by a team of technically trained advisors, who are available 24 hours a day, 365 days a year.

We take anxiety out of uncertain situations by providing minor repair information over the phone or making arrangements to tow your vehicle to the nearest Pontiac dealer.

We will provide the following services for 3 years/36,000 miles (60 000 km), at no expense to you:

- Fuel delivery
- Lock-out service (identification required)
- Tow to nearest dealership for warranty service
- Change a flat tire
- Jump starts

We have quick, easy access to telephone numbers of the following additional services depending on your needs:

- Hotels
- Glass replacement
- Tire repair facilities

- Rental vehicle or taxis
- Airports or train stations
- Police, fire department or hospitals

In many instances, mechanical failures are covered under Pontiac's comprehensive warranty. However, when other services are utilized, our advisors will explain any payment obligations you might incur.

For prompt and efficient assistance when calling, please provide the following information to give the advisor:

- Location of vehicle
- Telephone number of your location
- Vehicle model, year and color
- Mileage of vehicle
- Vehicle Identification Number (VIN)
- Vehicle license plate number

Pontiac reserves the right to limit services or reimbursement to an owner or driver when, in Pontiac's judgement, the claims become excessive in frequency or type of occurrence.

While we hope you never have the occasion to use our service, it is added security while traveling for you and your family. Remember, we're only a phone call away. Pontiac Roadside Assistance -- 1-800-ROADSIDE or 1-800-762-3743, text telephone (TTY) users, call 1-888-889-2438.

Canadian Roadside Assistance

Vehicles purchased in Canada have an extensive Roadside Assistance program accessible from anywhere in Canada or the United States. Please refer to the Warranty and Owner Assistance Information book or call 1-800-268-6800 for emergency services.

Courtesy Transportation

Pontiac 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 Pontiac 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 overnight 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 \$30.00 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 1-800-762-2737, or write:

Pontiac-GMC Customer Assistance Center
P.O. Box 33172
Detroit, MI 48232-5172

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

SERVICE PUBLICATIONS ORDERING INFORMATION

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 GM transmissions, transaxles and transfer cases.

RETAIL SELL PRICE: \$50.00

Service Bulletins

Service Bulletins give technical service information needed to knowledgeable 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 specifically for owners and intended to provide basic operational information about the vehicle. The owner's manual will include the Maintenance Schedule for all models.

In-Portfolio: Includes a Portfolio, Owner's Manual and Warranty Booklet.

RETAIL SELL PRICE: \$35.00

Without Portfolio: Owner's Manual only.

RETAIL SELL PRICE: \$25.00

Current and 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.

ORDER TOLL FREE: 1-800-551-4123 – Monday-Friday 8:00 AM – 6:00 PM Eastern Time

Visit Helm, Inc. on the World Wide Web at: www.helminc.com

For Credit Card Orders Only (VISA-MasterCard-Discover)

Helm, Incorporated • P.O. Box 07130 • Detroit, MI 48207

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Note to Canadian Customers: All listed prices are quoted in U.S. funds. Canadian residents are to make checks payable in U.S. funds.