

SAFARI®

GMC

Do one thing. Do it well.™

2000

2000 GMC Safari Owner's Manual

Litho in U.S.A.
Part Number X2010 A

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



We support voluntary technician certification.

For Canadian Owners Who Prefer a French Language Manual:

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

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

How to Use this Manual

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

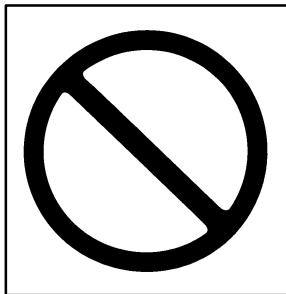
Safety Warnings and Symbols

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



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

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



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

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 Damage Warnings

Also, in this book you will find these notices:

NOTICE:

These mean there is something that could damage your vehicle.

Vehicle Symbols

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

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

CAUTION
POSSIBLE
INJURY



PROTECT
EYES BY
SHIELDING



CAUSTIC
BATTERY
ACID COULD
CAUSE
BURNS



AVOID
SPARKS OR
FLAMES



SPARK OR
FLAME
COULD
EXPLODE
BATTERY



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

DOOR LOCK
UNLOCK



FASTEN
SEAT
BELTS



POWER
WINDOW



AIR BAG



These symbols have to do with your lamps:

MASTER
LIGHTING
SWITCH



TURN
SIGNALS



PARKING
LAMPS



HAZARD
WARNING
FLASHER



DAYTIME
RUNNING
LAMPS



FOG LAMPS



These symbols are on some of your controls:

WINDSHIELD
WIPER



WINDSHIELD
WASHER



WINDSHIELD
DEFROSTER



REAR
WINDOW
DEFOGGER



VENTILATING
FAN



These symbols are used on warning and indicator lights:

ENGINE
COOLANT
TEMP



BATTERY
CHARGING
SYSTEM



BRAKE



COOLANT



ENGINE OIL
PRESSURE



ANTI-LOCK
BRAKES



Here are some other symbols you may see:

FUSE



LIGHTER



HORN



SPEAKER

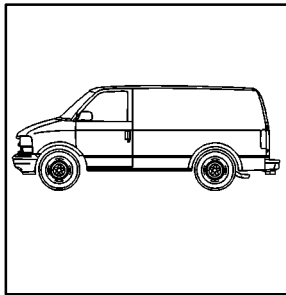


FUEL

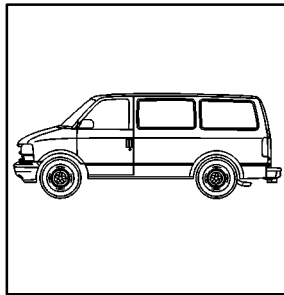


Model Reference

This manual covers these models:

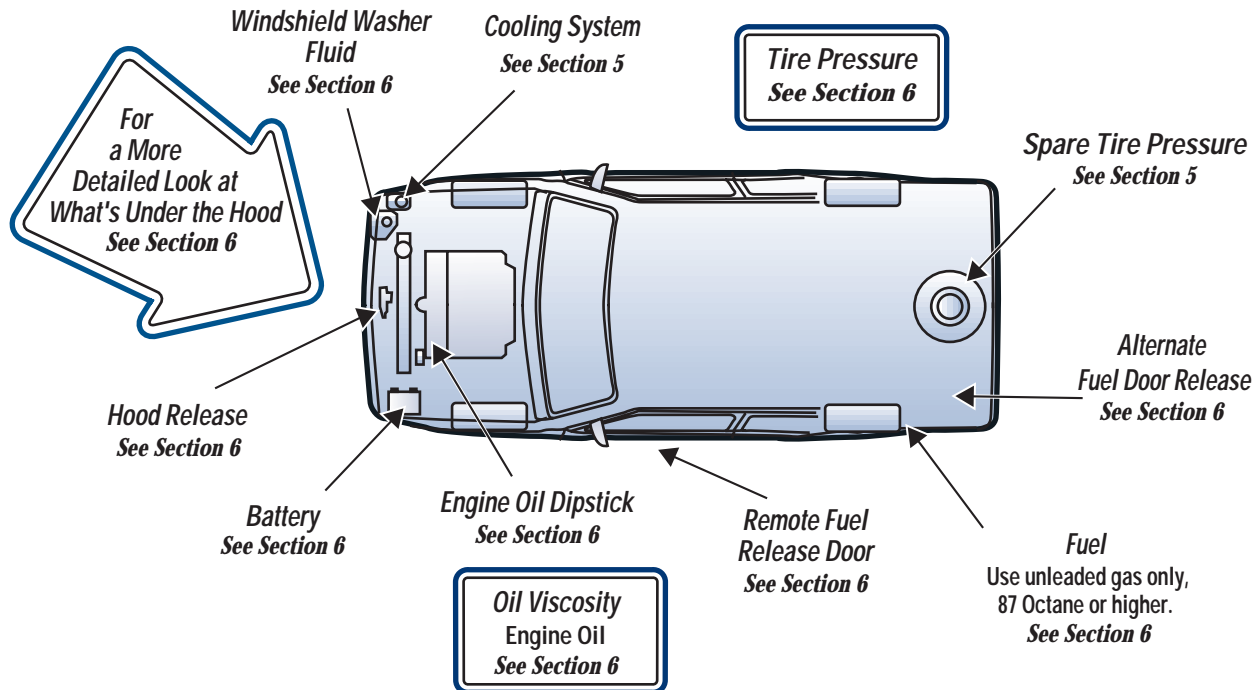


Cargo Van



Passenger Van

Service Station Guide



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.

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Seats and Seat Controls

This section tells you about the seats -- how to adjust them, take them out and put them back in. It also tells you about bucket and bench seats, power seats and head restraints.

Manual Front Seats

CAUTION:

You can lose control of the vehicle if you try to adjust a manual driver's seat while the vehicle is moving. The sudden movement could startle and confuse you, or make you push a pedal when you don't want to. Adjust the driver's seat only when the vehicle is not moving.

2-Way Front Seat



The bucket seats can be adjusted forward or rearward by the lever located at the front of the seat.

Move the seat adjustment lever at the front of the seat toward the driver's door to unlock it. Slide the seat to where you want it. Then release the lever and try to move the seat with your body, to make sure the seat is locked into place.

Manual Lumbar Support (If Equipped)



If you have this feature, there will be a knob located on the inboard side of the driver and passenger bucket 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.

Power Seats (If Equipped)

If you have this feature, there will be a control pad located on the inboard side of the driver and passenger bucket seats.



The front control makes the front of the seat go up and down.

The center control makes the whole seat go forward, rearward, up or down.

The rear control makes the rear of the seat go up and down.

Reclining Seatbacks

There is a lever located on the inside of the seat to adjust the seatback.



You can adjust the seatback by lifting the lever and leaning back. Release the lever to lock the seatback where you want it. Pull up on the lever, lean forward and the seat will go to an upright position.



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

Head restraints are fixed on some models and adjustable on others. Slide an adjustable head restraint up or down so that the top of the restraint is closest to the top of your ears. This position reduces the chance of a neck injury in a crash.

Seatback Latches (Non-Touring Bench Seats)



The seatback lever is located on the right rear of your seat.



To fold your non-touring bench seatback forward, pull up on the latch release lever while pulling the seatback toward the rear of the vehicle.

After the latch has been released, push the seatback toward the front of the vehicle until it locks in place. To raise the seatback, unlock the seatback latch by pushing up on the lever while pushing down on the upper edge of the seatback. Move the seatback into the upright position. Make sure the seatback is locked when it is back in the upright position.

 **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.

Rear Seats

Bucket Seats

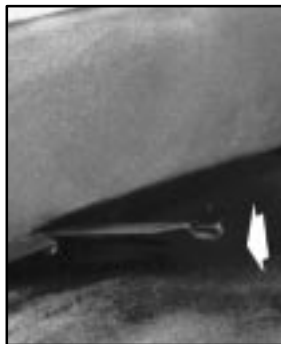


You may have rear bucket seats with an adjustment release bar located at the front of the seats. These seats can be adjusted forward or rearward with the release bar. Pull the release bar up to release the seat bottom and slide the seat where you want it. Then let go of the release bar and try to move the seat with your body, to make sure the seat is locked into place.

Bench Seats

If you have bench seats in your vehicle, each seat can carry up to three passengers. They can also be removed to increase storage space.

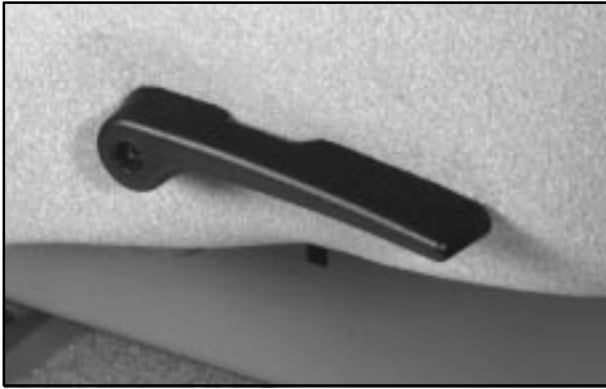
The center bench and rear bench seats can be adjusted forward or rearward by the lever at the front of the seat.



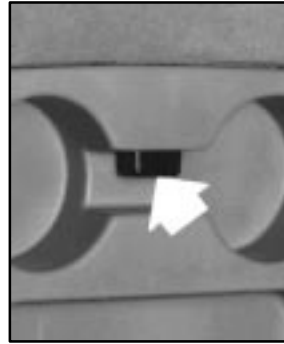
Move the seat adjustment lever located at the front of the seat toward the passenger's side to unlock it. Slide the seat to where you want it. Then release the lever and try to move the seat with your body, to make sure the seat is locked into place.

The non-touring center bench seat has a pivoting right armrest. The left armrest can also be used as a storage compartment.

The optional touring bench seats come with moveable armrests, individual reclining seatbacks, adjustable headrests and a fold-down center armrest console.



To adjust your seatback, pull up on the lever located on the lower outside of the seat.

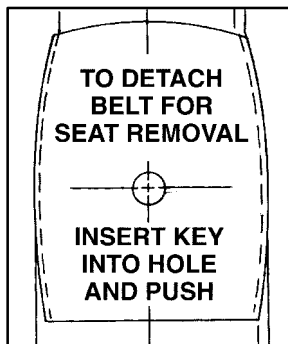


To raise or lower the center console, press the button located between the beverage holders. Sit in the center seating position only when the console is in an upright and locked position.

For details about headrests, see “Head Restraints” in this section.

Removing the Rear Seats

To remove the rear seats, do the following:



1. If you are removing the center seat, remove the right lap-shoulder belt. To do this, press the tip of a key into the release hole of the safety belt attachment while pulling up on the safety belt.



2. If you have a safety belt guide on your seat, pull the safety belt all the way out through the guide.

3. To store the safety belt while the second row seat is removed, pull the belt out and put both buckles in the passenger's side rear storage bin.

Route the belt out of the forward edge of the storage bin. Close the cover to retain the belt.

4. Pull up on the seatback latch on the right rear of the seat. Push the seatback down until it locks in place (non-touring bench seats only).



5. Lift up on the left and the right seat release levers at the same time. The latches are near the floor on the rear legs of the seat.



6. Lift up on the rear of the seat to remove the seat assembly from the rear latch pins. Then, pull back and lift the seat out of the vehicle.

Your seat release latch lever is sprung with a two-stage mechanism. To fully release the latch, two levels of lift effort will be required. First, a low effort to overcome the first stage and then a moderate effort to fully release the latch.

Replacing the Rear Seats



- Lower the seat into position. Make sure the front retainers are hooked onto the anchor pins.



- Pull the seat down to latch the rear retainers. Make sure the seat is locked in by pulling up and down on the seat.

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.

- To raise the seatback on vehicles equipped with the non-touring seat:

A. Unlock the seatback latch by pushing up on the latch release lever at the right rear of the seat, while pushing down on the upper edge of the seatback.

B. Move the seatback into the upright position.

C. Make sure the seatback is locked when it is back in the upright position.

If you are replacing the center seat, connect the right lap-shoulder belt to the attachment on the seat cushion. If you have a safety belt guide on your seat, pull the belt through the guide before reattaching the lap-shoulder belt to the side of the seat. The release hole should be facing outward.

If you installed the safety belt with the release hole facing inward (toward the seat), slide the plastic cover up so you can see the buckle. Disconnect the seat belt. Slide the cover back down and reinstall the belt correctly.



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.

Safety Belts: They're for Everyone

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

And it explains the air bag system.

CAUTION:

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

CAUTION:

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



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

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

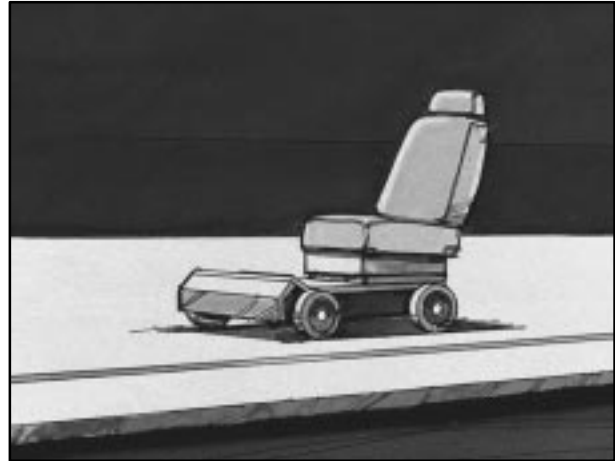
You never know if you'll be in a crash. If you do have a crash, you don't know if it will be a bad one.

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

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

Why Safety Belts Work

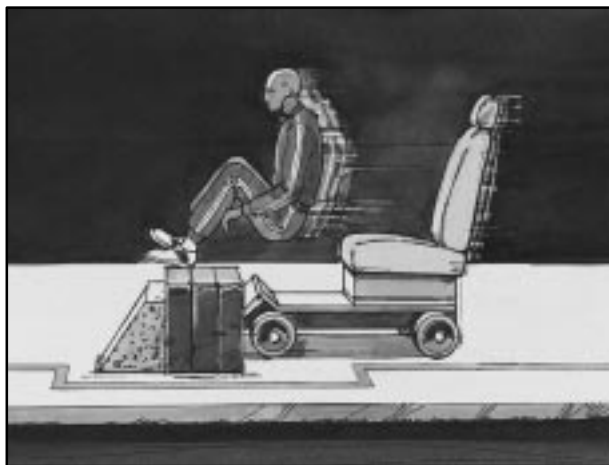
When you ride in or on anything, you go as fast as it goes.



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



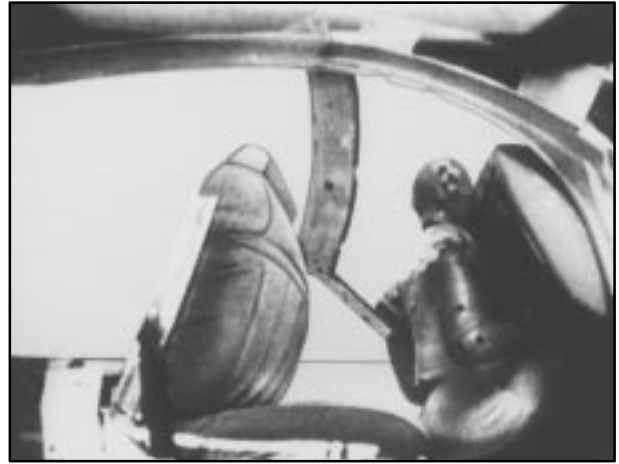
Put someone on it.



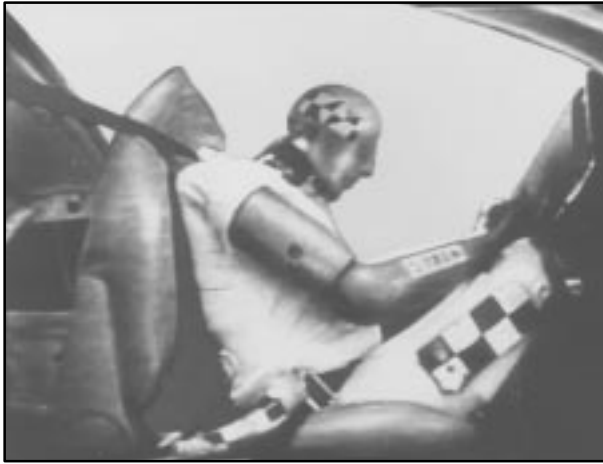
Get it up to speed. Then stop the vehicle. The rider doesn't stop.



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



or the instrument panel ...



or the safety belts!

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

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

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

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

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

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

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

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

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

Safety belts are for everyone.

How to Wear Safety Belts Properly

Adults

This part is only for people of adult size.

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

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

We'll start with the driver position.

Driver Position

This part describes the driver's restraint system.

Lap-Shoulder Belt

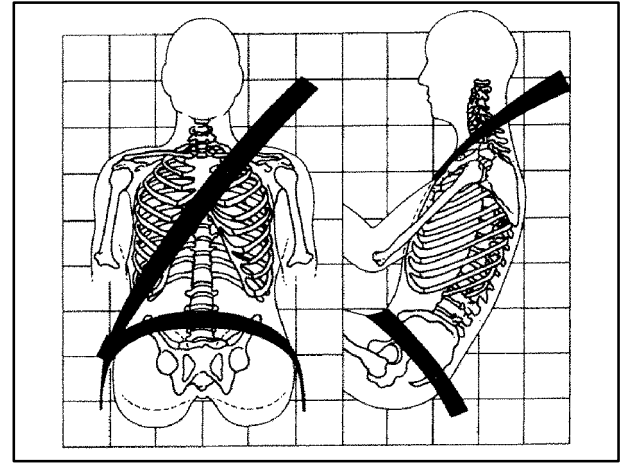
The driver has a lap-shoulder belt. Here's how to wear it properly.

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



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



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.

Shoulder Belt Height Adjuster

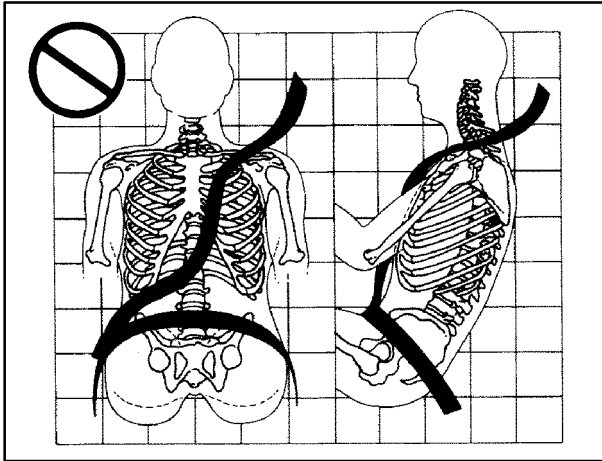
Before you begin to drive, move the shoulder belt adjuster to the height that is right for you.



To move it down, push in at the top of the arrows 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 in 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?

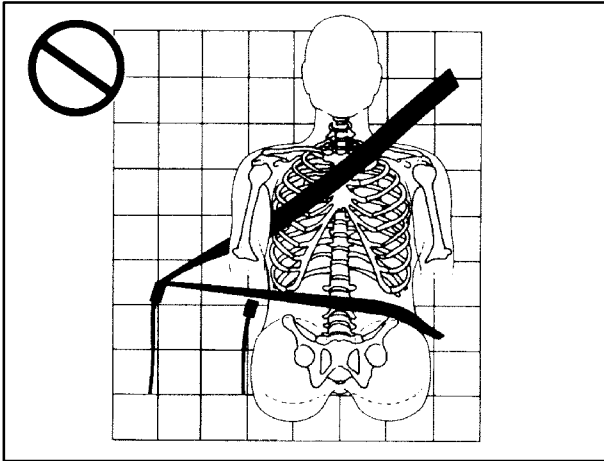


A: The shoulder belt is too loose. It won't give nearly as much protection this way.

⚠ 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?

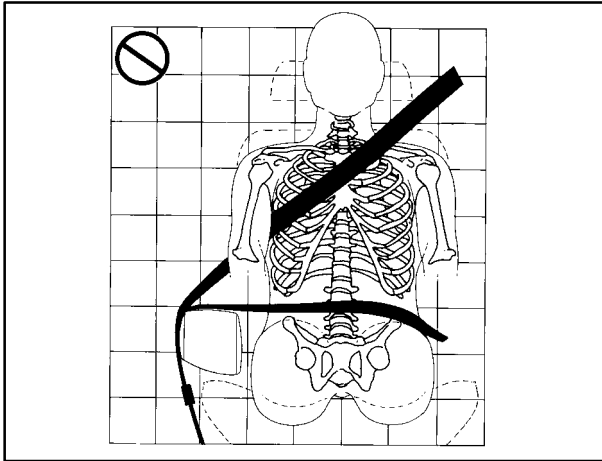


A: The belt is buckled in the wrong place.

⚠ 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?

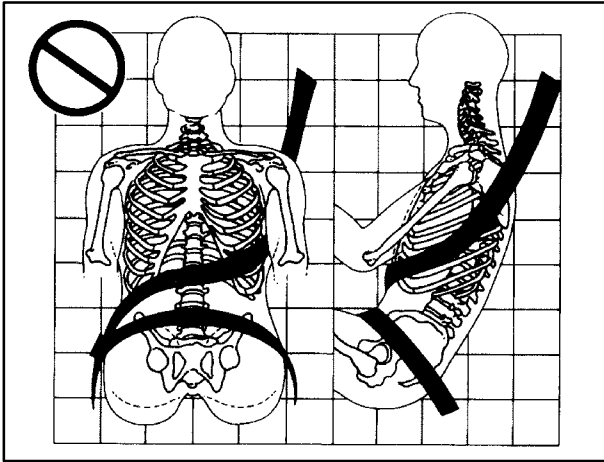


A: The belt is over an armrest.

⚠ 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?

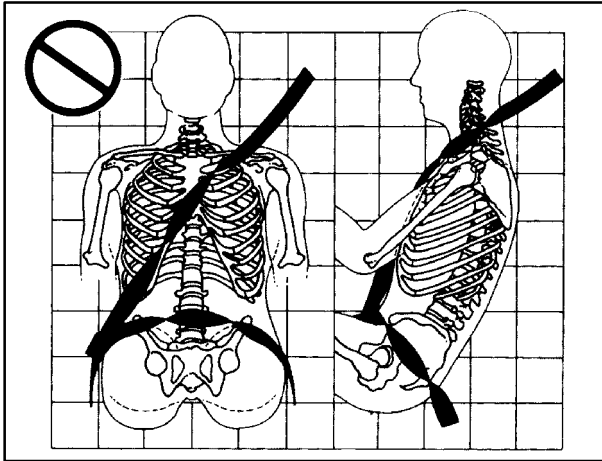


A: The shoulder belt is worn under the arm. It should be worn over the shoulder at all times.

⚠ 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.

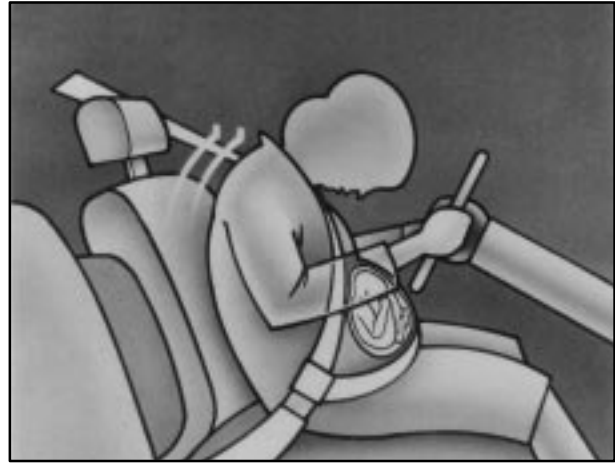


To unlatch the belt, just push the button on the buckle. The belt should go back out of the way.

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

Safety Belt Use During Pregnancy

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



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

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

Right Front Passenger Position

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

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

Air Bag System

This part explains the air bag system.

Your vehicle has air bags -- one air bag for the driver and another 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 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 system:

CAUTION:

You can be severely injured or killed in a crash if you aren't wearing your safety belt -- even if you have air bags. Wearing your safety belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Air bags are "supplemental restraints" to the safety belts. All air bags are designed to work with safety belts, but don't replace them. Air bags are designed to work only in moderate to severe crashes where the front of your vehicle hits something. They aren't designed to inflate at all in rollover, rear, side or low-speed frontal crashes. And, for unrestrained occupants, air bags may provide less protection in frontal crashes than more forceful air bags have provided in the past. Everyone in your vehicle should wear a safety belt properly -- whether or not there's an air bag for that person.

 **CAUTION:**

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 before and during a crash. Always wear your safety belt, even with air bags. The driver should sit as far back as possible while still maintaining control of the vehicle.

 **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

CAUTION: (Continued)

CAUTION: (Continued)

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."

**AIR
BAG**

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

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 System Works



Where are the air bags?

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



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



CAUTION:

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

When should an air bag inflate?

An air bag is designed to inflate in a moderate to severe frontal or near-frontal crash. The air bag will inflate only if the impact speed is above the system's designed "threshold level." If your vehicle goes straight into a wall that doesn't move or deform, the threshold level is about 9 to 14 mph (14 to 23 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 air bag is not designed to inflate in rollovers, side impacts or rear impacts, because inflation would not help the occupant.

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. Inflation is determined by the angle of the impact and how quickly the vehicle slows down in frontal or near-frontal impacts.

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. 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 and in the instrument panel in front of the right front passenger.

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. Air bags supplement 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 air bags would not help you in many types of collisions, including rollovers, rear impacts and side impacts, primarily because an occupant's motion is not toward 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.

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, or the instrument panel for the right front passenger's bag -- 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 vents in the deflated air bags. Air bag inflation doesn't prevent the driver from seeing or from 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 door.

- Air bags are designed to inflate only once. After they inflate, 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 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. Some modules also record speed, engine rpm, brake and throttle data.
- Let only qualified technicians work on your air bag system. Improper service can mean that your 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, the bag may not work properly. You may have to replace the air bag module in the steering wheel or both the air bag module and the instrument panel for the right front passenger's 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 system in several places around your vehicle. You don't want the system to inflate while someone is working on your vehicle. Your dealer and the service manual have information about servicing your vehicle and the air bag system. To purchase a service manual, see "Service and Owner Publications" in the Index.

CAUTION:

For up to 10 minutes 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 wires wrapped with yellow tape or yellow connectors. They are probably part of the air bag system. Be sure to follow proper service procedures, and make sure the person performing work for you is qualified to do so.

The air bag system does not need regular maintenance.

Adding Equipment to Your Air Bag-Equipped Vehicle

Q: If I add a push bumper or a bicycle rack to the front of my vehicle, will it keep the air bags from working properly?

A: As long as the push bumper or bicycle rack is attached to your vehicle so that the vehicle's basic structure isn't changed, it's not likely to keep the air bags from working properly in a crash.

Q: Is there anything I might add to the front of the vehicle that could keep the air bags from working properly?

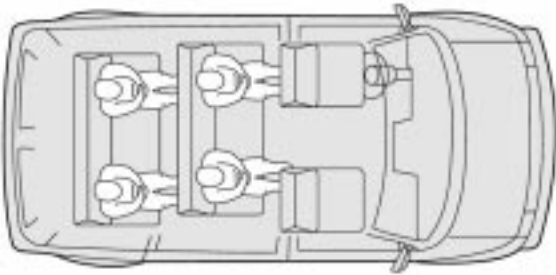
A: Yes. If you add things that change your vehicle's frame, bumper system, front end sheet metal or height, they may keep the air bag system from working properly. Also, the air bag system may not work properly if you relocate any of the air bag sensors. If you have any questions about this, you should contact Customer Assistance before you modify your vehicle. (The phone numbers and addresses for Customer Assistance are in Step Two of the Customer Satisfaction Procedure in this manual. See "Customer Satisfaction Procedure" in the Index.)

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

These positions have lap-shoulder belts. Here's how to wear one properly.



1. Pick up the latch plate and pull the belt across you. Don't let it get twisted.
2. Push the latch plate into the buckle until it clicks.



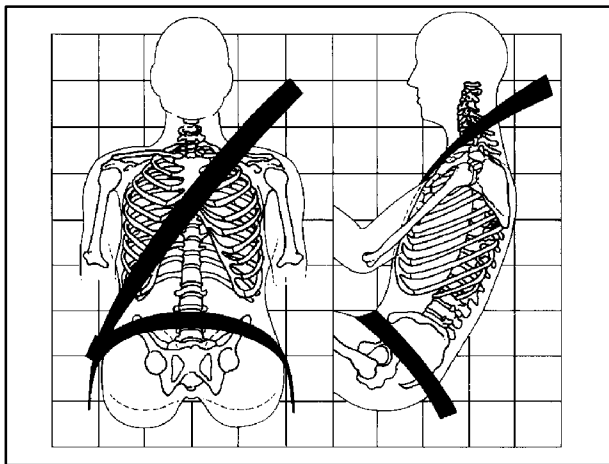
3. If the belt stops before it reaches the buckle, tilt the latch plate and keep pulling until you can buckle it. Pull up on the latch plate to make sure it is secure.

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.



4. 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.

CAUTION:

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



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

Rear Safety Belt Comfort Guides for Children and Small Adults

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

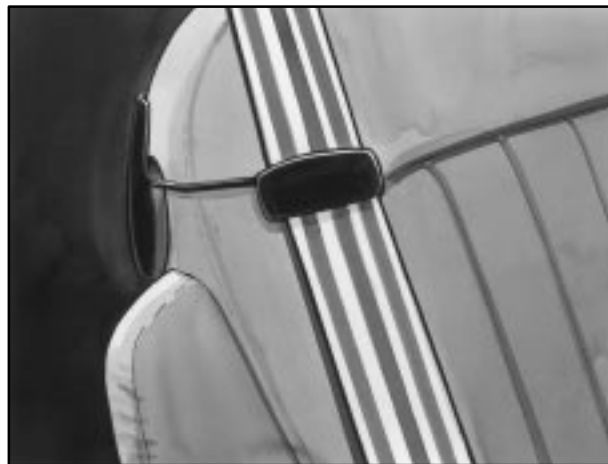
There is one guide for each outside passenger position in the rear seats. To provide added safety belt comfort for children who have outgrown child restraints and for smaller adults, the comfort guides may be installed on the shoulder belts. Here's how to install a comfort guide and use the safety belt:



1. Remove the guide from its storage clip on the side of the seatback.



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



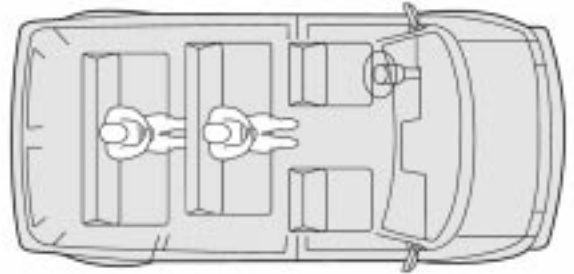
3. Be sure that the belt is not twisted and it lies flat. The elastic cord must be under the belt and the guide on top.



4. Buckle, position and release the safety belt as described in “Rear Seat 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 from the guides. Slide the guide onto the storage clip.

Center Passenger Position (Bench Seat)



Lap Belt

If your vehicle has rear bench seats, someone can sit in the center positions.



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



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

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

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

Children

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

Smaller Children and Babies (Except Cargo Vans)

CAUTION:

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

CAUTION:

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

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



⚠ CAUTION:

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

CAUTION: (Continued)

CAUTION: (Continued)

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

Secure the baby in an infant restraint.



Smaller Children and Babies (Cargo Vans)

CAUTION:

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

CAUTION:

A very young child's hip bones are so small that a regular belt might not stay low on the hips, as it should. Instead, the belt will likely be over the child's abdomen. In a crash, the belt would apply force right on the child's abdomen, which could cause serious or fatal injuries. Smaller children and babies should always be restrained in a child restraint. However, infants, who should be restrained in a rear-facing child restraint, cannot ride safely in this vehicle. The instructions for the restraint will say whether it is the right type and size for your child. If a forward-facing child restraint is suitable for your child, be sure the child is always properly restrained while riding in this vehicle.



⚠ CAUTION:

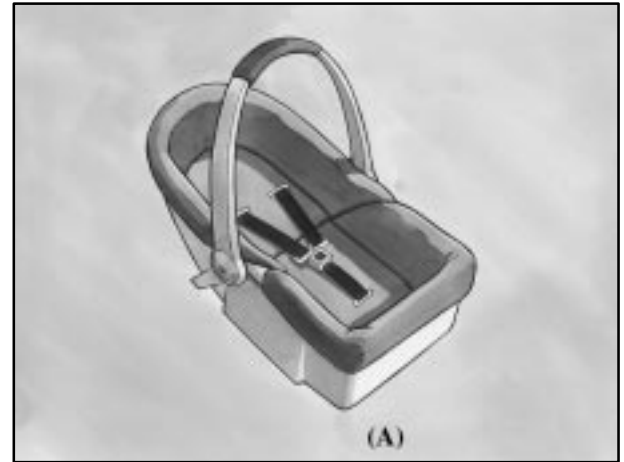
Never hold a baby in your arms while riding in a vehicle. A baby doesn't weigh much -- until a crash. During a crash a baby will become so heavy you can't hold it. For example, in a crash at only 25 mph (40 km/h), a 12-lb. (5.5 kg) baby will suddenly become a 240-lb. (110 kg) force on your arms. The baby would be almost impossible to hold.

Child Restraints

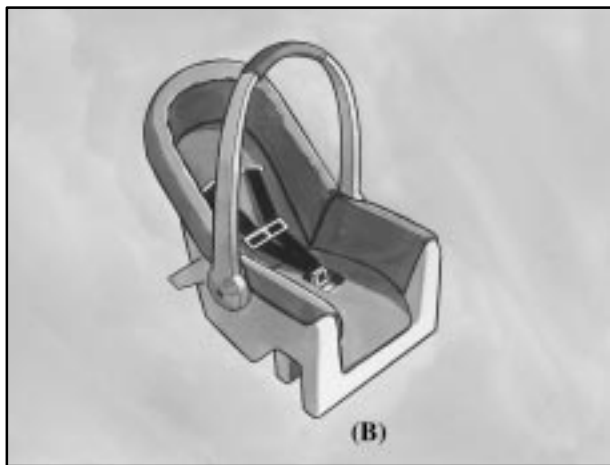
Every time infants and young children ride in vehicles, they should have protection provided by appropriate restraints.

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

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



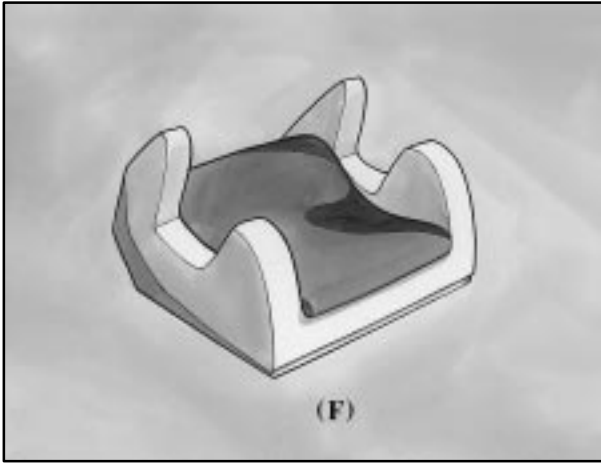
An infant car bed (A) is a special bed made for use in a motor vehicle. It's an infant restraint system designed to restrain or position a child on a continuous flat surface. With an infant car bed, make sure that the infant's head rests toward the center of the vehicle.



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



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



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

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

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

Where to Put the Restraint (Except Cargo Vans)

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



CAUTION:

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

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

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.

Where to Put the Restraint (Cargo Vans)

The child restraint must be secured properly in the passenger seat. *Never* put a rear-facing child restraint in this vehicle. Here's why:



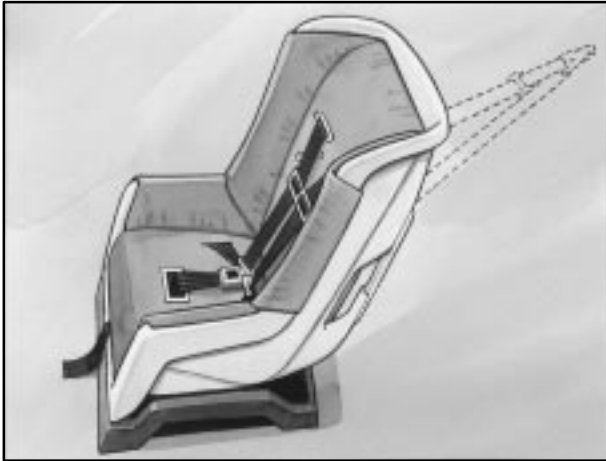
CAUTION:

A child in a rear-facing child restraint can be seriously injured or killed if the 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. Do not use a rear-facing child restraint in this vehicle.

If a forward-facing child restraint is suitable for your child, always move the passenger seat as far back as it will go.

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

Top Strap



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

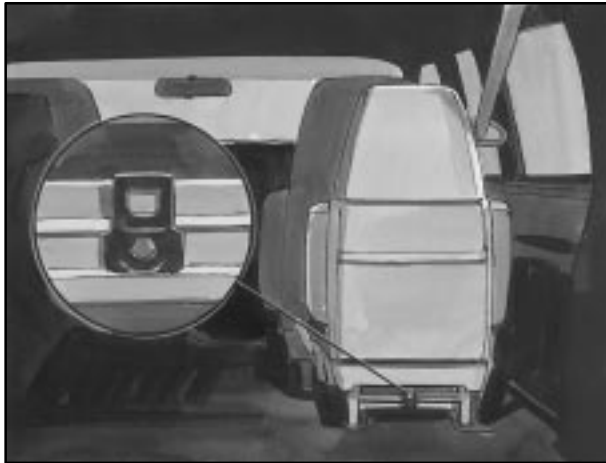
If your vehicle is a cargo van, the anchor bracket for a top strap is located at the rear of the seat cushion on the right front passenger's seat.



Cargo Van Models

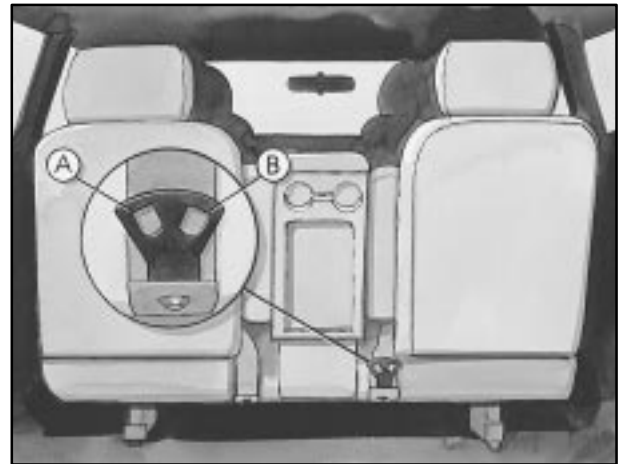
If your vehicle is a passenger van with rear seats, a child restraint with a top strap should only be used in the second or third row. Don't use a child restraint with a top strap in the right front passenger's position because there's no place to anchor the top strap.

Bucket Seats: An anchor bracket is located at the rear of the seat cushion. Anchor the top strap to this bracket.



Passenger Van Bucket Seats

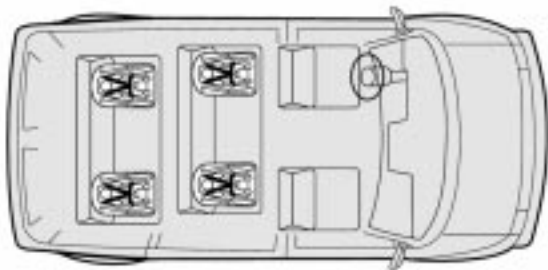
Bench Seats: An anchor bracket is located at the rear of the seat cushion for the center and right outboard positions in the second and third row. Don't use a child restraint with a top strap in the left outboard position because there's no place to anchor the top strap.



Passenger Van Bench Seats

Anchor the top strap to this bracket. For the center seating position, use anchor point (A). For the right outboard seating position, use anchor point (B). Once you have the top strap anchored, you'll be ready to secure the child restraint itself.

Securing a Child Restraint in a Rear Outside Seat Position



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

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



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.



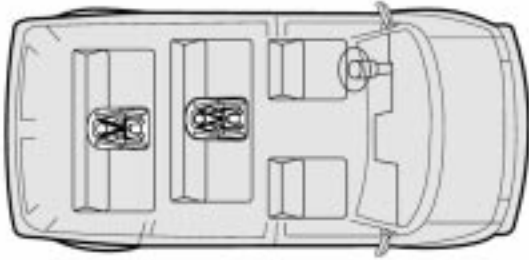
3. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.



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 a Center Seat Position (Bench Seat)



You'll be using the lap belt. 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.



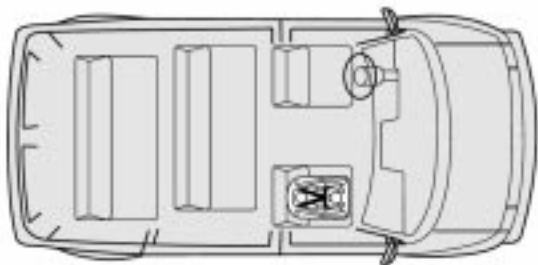
1. Make the belt as long as possible by tilting the latch plate and pulling it along the belt.
2. Put the restraint on the seat.
3. Run the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.



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. It 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. If your vehicle is a passenger van, always secure a rear-facing child restraint in a rear seat.

If your vehicle is a cargo van, do not use a rear-facing child restraint in this vehicle. If a forward-facing child restraint is suitable for your child, always move the passenger seat as far back as it will go.

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 front passenger air bag, always move the seat as far back as it will go before securing a forward-facing child restraint. (See “Seats” in the Index.)
2. Put the restraint on the seat.
3. Pick up the latch plate, and run the lap and shoulder portions of the vehicle’s safety belt through or around the restraint. The child restraint instructions will show you how.

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



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



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



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

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

Larger Children



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

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

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

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



⚠ CAUTION:

Never do this.

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

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

A: 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 rear seat outside position, see "Rear Safety Belt Comfort Guides" in the Index. If the child is so small that the shoulder belt is still very close to the child's face or neck, you might want to place the child in a seat that has a lap belt, if your vehicle has one.



⚠ 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.

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

Safety Belt Extender

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

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

Checking Your Restraint Systems

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

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

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

Replacing Restraint System Parts After a Crash

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

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



If you ever see a label on the driver's or the 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 latch plate.

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

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

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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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.





This vehicle has one double-sided key for the ignition and door locks. It will fit with either side up.

When a new vehicle is delivered, the dealer provides the owner with a pair of identical keys and a bar-coded tag.

The bar-coded tag has a code on it that tells your dealer or a qualified locksmith how to make extra keys. Keep this tag in a safe place. If you lose your keys, you'll be able to have new ones made easily using this tag.

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 keys inside. You may even have to damage your vehicle to get in. So be sure you have extra keys.

Front Doors

To open the front side door from the outside, grasp the handle and pull the door open.



To open the front side door from the inside, pull the lever toward you and push the door open.

Rear Doors

If you have the Dutch doors, you must open the hatch first. See “Hatch Release” in the Index.



Rear doors can only be opened from the outside. Open the passenger’s side rear door first. Grasp the handle and pull the door open.

Cargo Door Shown



To open the driver's side rear door, pull on the latch release handle located on the inside of the door.



To fully open the rear doors, push in on the clip and lift the check assembly up off the mounting bracket.

To close the rear doors, close the driver's side door first. Check to make sure both doors are completely closed.

The rear doors have a check assembly to keep the doors from opening beyond 90 degrees.

Do this on each door. Replace the check assemblies on the mounting brackets before closing the doors.

See "Swing-Out Windows" in the Index for important safety cautions.

Door Locks

CAUTION:

Unlocked doors can be dangerous.

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

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

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

There are several ways to lock and unlock your vehicle.

Your vehicle may be equipped with the keyless entry system. For more information, see "Keyless Entry System" in the Index.

To unlock your door from the outside, use your key.



To lock the front doors and sliding side door from the inside, slide the manual lock levers down. To unlock the front doors and the sliding side door from the inside, slide the manual lock levers up. When the red mark on the lock lever is visible, the door is unlocked.

Power Door Locks (If Equipped)



If your vehicle has power door locks, press the power door lock switch to lock or unlock all the doors at once.

The power door lock switch will lock or unlock the rear hatch and Dutch doors. See “Hatch Release” in the Index.

Every vehicle with power door locks has a pulse lock system. A pulse lock system works like this:

If the sliding door is open and you press the power door lock switch, the sliding door will not lock immediately. After you close the door, the system comes on and locks the sliding door in about five seconds.

When the key is in the ignition and the power door lock button is pressed with a door open, all doors are locked while the driver’s side door is unlocked.

All models have overriding door locks. When a door is locked, the inside door handle will not work the latch. This will help stop a door from being accidentally opened.

Leaving Your Vehicle

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

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.

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



Your 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 or transmitter resynchronization is necessary. See the instructions that follow.
- If you're still having trouble, see your dealer or a qualified technician for service.

Operation

UNLOCK: When you press UNLOCK, the driver's door will unlock automatically, the parking lamps will flash and the interior lights will go on. If you press UNLOCK again within five seconds, all doors will unlock, the parking lamps will flash and the interior lights will go on.

LOCK: Press LOCK to lock all the doors. Press LOCK again within five seconds and the horn will chirp.

REAR 2X: When you press the REAR button twice within five seconds to unlock the rear hatch or cargo doors, the parking lamps will flash and the interior lights will go on. If the engine is running, the automatic transmission must be in PARK (P) or NEUTRAL (N) for the REAR 2X button to operate.

Remote Panic Alarm

When the button with the horn symbol on the key transmitter is pressed, the horn will sound and the headlamps and taillamps will flash for up to 30 seconds. This can be turned off by pressing the horn button again, waiting for 30 second, or starting the vehicle.

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 only two transmitters matched to it.

Battery Replacement

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

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

NOTICE:

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

Use one Panasonic® three-volt, type CR2032, or equivalent battery.

Your transmitter housing snaps apart for ease in battery replacement.

To replace the battery:



1. Insert a small coin or flathead screwdriver to separate the bottom of the transmitter from the top.
2. Remove the battery and replace it with a new one, making sure the positive (+) side of the battery is facing down.
3. Snap the top and bottom together.
4. Test the operation of the transmitter with your vehicle. If the transmitter does not work, try resynchronizing the transmitter with the receiver.

Resynchronization

Resynchronization may be necessary due to the security method used by this system. The transmitter does not send the same signal twice to the receiver. The receiver will not respond to a signal it has been sent previously. This will prevent anyone from recording and playing back the signal from the transmitter.

To resynchronize your transmitter, stand close to your vehicle and simultaneously press and hold the LOCK and UNLOCK buttons on the transmitter for eight seconds. The door locks should cycle to confirm synchronization. If the locks do not cycle, see your dealer for service.

Sliding Door



To open the sliding side door, pull the handle toward the back and slide the door to the rear until it rests in the open position.

To close the sliding side door, pull the handle toward the front and slide the door forward.

Sliding Door Security Lock



Your vehicle's sliding side door is equipped with a security door lock located at the front of the sliding door.

There are two labels on your vehicle to remind you that you have this feature. One can be seen from the outside on your sliding door. It is located near the bottom of the door glass, toward the front of the door. The other label is at the front of the sliding door, near the security door lock.

This feature prevents passengers from opening the sliding side door from the inside.

To use this feature, do the following:

1. Move the lever all the way up.
2. Close the door.

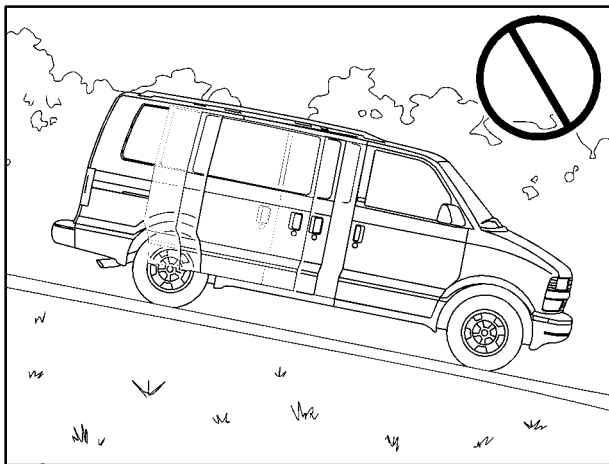
To open the sliding side door while the security lock is engaged, unlock the door and open it from the outside.

If you don't cancel the security lock feature, adults or older children who ride in the rear won't be able to open the sliding door from the inside. You should let adults and older children know how the security door lock works, and how to cancel the lock.

Canceling the Sliding Door Security Lock

To cancel the security lock:

1. Unlock the door and open it from the outside.
2. Move the lever all the way down.



⚠ CAUTION:

If your vehicle is facing downward on a steep grade (15 percent or more), the door may not stay open and could slam shut, possibly injuring someone. To make sure the door does not slam shut, be sure to hold it open until everyone is clear of the door, and only then allow it to slowly close.

Hatch

CAUTION:

It can be dangerous to drive with the rear swing-out windows, rear hatch or rear doors 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 rear swing-out windows, rear hatch or rear doors open or if electrical wiring or other cable connections must pass through the seal between the body and the rear swing-out windows, rear hatch or rear doors:

- **Make sure all other windows are shut.**
- **Turn the fan on your heating or cooling system to its highest speed with the setting on anything but MAX A/C. That will force outside air into your vehicle. See "Comfort Controls" in the Index.**
- **If you have air outlets on or under the instrument panel, open them all the way. See "Engine Exhaust" in the Index.**

Hatch Release

You can use your key to unlock the hatch and all the other doors from the outside. Insert the key into the hatch release button and turn it counterclockwise. All doors will unlock.

You may also use the keyless entry system described earlier.

The hatch can be opened or closed without a key if the door lock system is unlocked.



To open the hatch, unlock it, press the button and lift the handle located in the center of the door.

To lock the power lock system from the outside, insert the key in the hatch release button and turn it clockwise. All doors will lock.

Also, see the Caution following “Hatch” located in this section.

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 tone 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 transmission. 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

If you park in a lot where someone will be watching your vehicle, it’s best to lock it up and take your keys. But what if you have to leave your key? Do not leave valuables in your vehicle, since there is no locking area in which to secure them. Lock all doors except the driver’s.

Passlock®

Your vehicle is equipped with the Passlock theft-deterrent system.

Passlock is a passive theft-deterrent system. Passlock enables fuel if the ignition lock cylinder is turned with a valid key. If a correct key is not used or the ignition lock cylinder is tampered with, fuel is disabled.

During normal operation, the SECURITY light will go off approximately five seconds after the key is turned to the RUN ignition position.

If the engine stalls and the SECURITY light flashes, wait until the light stops flashing before trying to restart the engine. Remember to release the key from START as soon as the engine starts.

If the engine is running and the SECURITY light comes on, you will be able to restart the engine if you turn the engine off. However, your Passlock system is not working properly and must be serviced by your dealer. Your vehicle is not protected by Passlock at this time. You may also want to check the fuses (see “Fuses and Circuit Breakers” in the Index). See your dealer for service.

In an emergency, call the GM Roadside Assistance Center. See “Roadside Assistance” in the Index.

New Vehicle “Break-In”

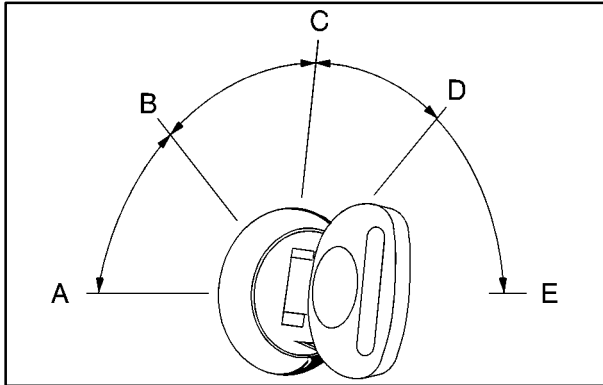
NOTICE:

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

- **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

Use your ignition key to start your vehicle. The ignition key lets you turn the ignition switch to five different positions.



ACCESSORY (A): This position lets you use things like the radio, power windows and windshield wipers when the engine is off. To get into ACCESSORY, push in the key and turn it toward you. Your steering wheel will remain locked, just as it was before you inserted the key.

NOTICE:

Don't operate accessories in the ACCESSORY position for long periods of time. Prolonged operation of accessories in the ACCESSORY position could drain your battery and prevent you from starting your vehicle.

LOCK (B): This position locks your ignition, steering wheel and transmission shift lever in PARK (P). It's a theft-deterrent feature. You will only be able to remove your key when the ignition is turned to LOCK.

OFF (C): This position lets you turn off the engine but still turn the steering wheel. Use OFF if you must have your vehicle in motion while the engine is off (for example, if your vehicle is being towed).

RUN (D): This is the position for driving.

START (E): This position starts your engine.

NOTICE:

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

Retained Accessory Power (RAP)

Your vehicle is equipped with a retained accessory power (RAP) feature which will allow certain features of your vehicle to continue to work up to 20 minutes after the ignition key is turned to OFF.

Your radio, power windows and overhead console will work when the ignition key is in RUN or ACCESSORY. Once the key is turned from RUN to OFF, these features will continue to work for up to 20 minutes or until a door is 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 transmission. Shift to PARK (P) only when your vehicle is stopped.

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

NOTICE:

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

2. If it doesn't start right away, hold your key in START. If it doesn't start in 10 seconds, push the accelerator pedal all the way down for five more seconds, unless it starts sooner.
3. If your engine still won't start (or starts but then stops), wait 15 seconds and start over.
When the engine starts, let go of the key and the accelerator pedal.

NOTICE:

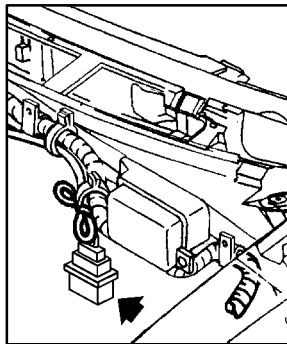
Your engine is designed to work with the electronics in your vehicle. If you add electrical parts or accessories, you could change the way the engine operates. Before adding electrical equipment, check with your dealer. If you don't, your engine might not perform properly.

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

Fuel Regulator

You have a fuel regulator that shuts the fuel off when the engine reaches 5,600 rpm.

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.

To Use the Engine Coolant Heater

1. Turn off the engine.
2. Open the hood and unwrap the electrical cord.
The engine coolant heater cord is located on the driver's side of the engine compartment, near the power steering fluid reservoir.
3. Plug it into a normal, grounded 110-volt AC outlet.

CAUTION:

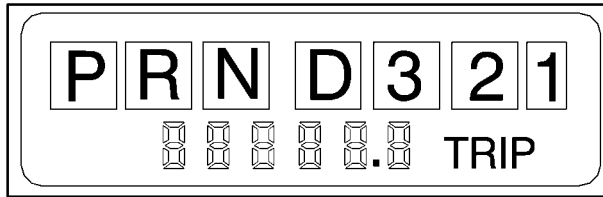
Plugging the cord into an ungrounded outlet could cause an electrical shock. Also, the wrong kind of extension cord could overheat and cause a fire. You could be seriously injured. Plug the cord into a properly grounded three-prong 110-volt AC outlet. If the cord won't reach, use a heavy-duty three-prong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

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

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

Automatic Transmission Operation

There are several different positions for your shift lever.



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

CAUTION:

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

Ensure the shift lever is fully in PARK (P) before starting the engine. Your vehicle has an automatic transmission 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 RUN. If you cannot shift out of PARK (P), ease pressure on the shift lever -- push the shift lever all the way into PARK (P) as you maintain brake application. Then move the shift lever into the gear you wish. See “Shifting Out of PARK (P)” in the Index.

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

NOTICE:

Shifting to REVERSE (R) while your vehicle is moving forward could damage your transmission. 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 transmission, 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 transmission caused by shifting out of PARK (P) or NEUTRAL (N) with the engine racing isn't covered by your warranty.

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

- Going less than about 35 mph (55 km/h), push your accelerator pedal about halfway down.
- Going about 35 mph (55 km/h) or more, push the accelerator pedal all the way down. You'll shift down to the next gear and have more power.

DRIVE (D) should be used for normal towing.

THIRD (3): This position is also used for normal driving, however it offers more power and lower fuel economy than DRIVE (D). You should use THIRD (3) when carrying a heavy load or driving on steep hills.

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.

If you manually select SECOND (2), the transmission will drive in second gear. You may use this feature for reducing torque to the rear wheels when you are trying to start your vehicle from a stop on slippery road surfaces.

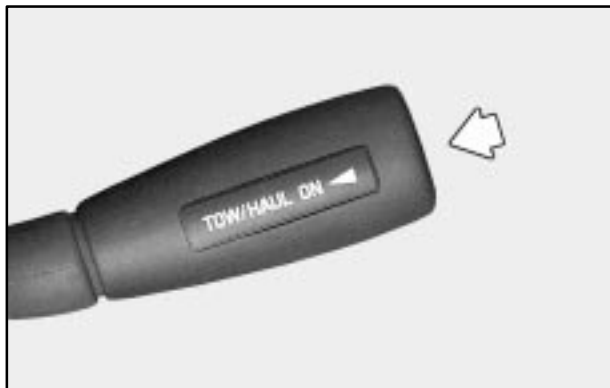
FIRST (1): This position gives you even more power (but lower fuel economy) than SECOND (2). You can use it on very steep hills, or in deep snow or mud. If the selector lever is put in FIRST (1), the transmission won't shift into first gear until the vehicle is going slow enough.

NOTICE:

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

Also, if you stop when going uphill, don't hold your vehicle there with only the accelerator pedal. This could overheat and damage the transmission. Use your brakes or shift into PARK (P) to hold your vehicle in position on a hill.

Tow/Haul Mode Selector Switch



Your vehicle is equipped with a tow/haul selector switch. The selector switch is located on the end of the column shift lever. You can use this feature to assist when towing or hauling a heavy load.

To select the tow/haul mode, press in the switch. The TOW/HAUL light on the instrument panel cluster will come on. To go back to normal operation, press the switch again. The indicator light on the instrument panel will go out. See "Tow/Haul Mode" in the Index for more information.

Parking Brake

To set the parking brake, hold the regular brake pedal down with your right foot.

Push down the parking brake pedal with your left foot. If the ignition is on, the brake system warning light will come on.



To release the parking brake, hold the regular brake pedal down. Pull the brake release lever located on the lower left side of the steering column.

NOTICE:

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

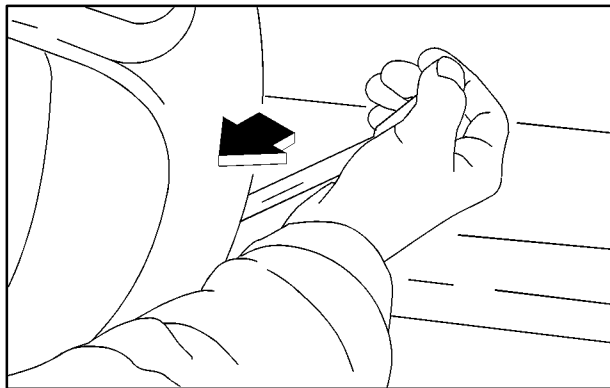
If you are towing a trailer and are parking on a hill, see “Towing a Trailer” in the Index. That section shows what to do first to keep the trailer from moving.

Shifting Into PARK (P)

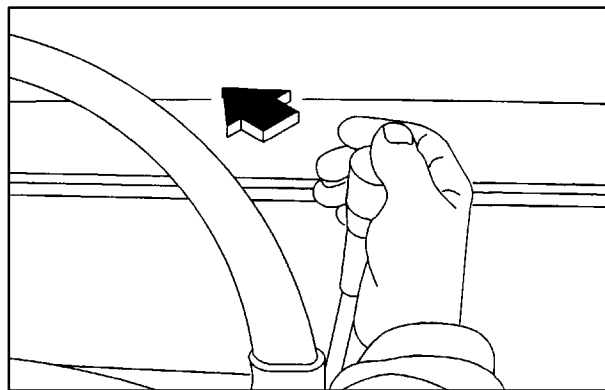
CAUTION:

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.
2. Move the shift lever into PARK (P) like this:



- Pull the lever toward you.



- Move the lever up as far as it will go.
3. Turn the ignition key to LOCK.
 4. Remove the key and take it with you. If you can remove the key from your ignition, 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 to 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 transmission into PARK (P) properly, the weight of the vehicle may put too much force on the parking pawl in the transmission. 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 transmission, so you can pull the shift lever out of PARK (P).

Shifting Out of PARK (P)

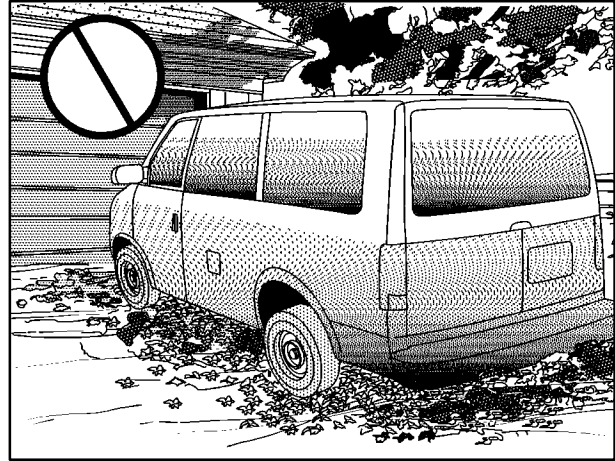
Your vehicle has an automatic transmission shift lock control system. You have to fully apply your regular brake before you can shift from PARK (P) when the ignition is in RUN. See “Automatic Transmission” in the Index.

If you cannot shift out of PARK (P), ease pressure on the shift lever -- push the shift lever all the way into PARK (P) as you maintain brake application. Then move the shift lever into the gear you want.

If you ever hold the brake pedal down but still can't shift out of PARK (P), try this:

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

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 ever you have to, here are some things to know.

CAUTION:

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

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

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

CAUTION:

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

Locking Rear Axle

If your vehicle has this feature, your locking rear axle can give you additional traction on snow, mud, ice, sand or gravel. It works like a standard axle most of the time, but when one of the rear wheels has no traction and the other does, this feature will allow the wheel with traction to move the vehicle.

All-Wheel Drive (Option)



If your vehicle has all-wheel drive, your engine's driving power is sent to all four wheels for extra traction when needed.

This is like four-wheel drive, but there is no separate lever or switch to engage or disengage the front axle. It is fully automatic, and adjusts itself as needed for road conditions.

You may experience a brief vehicle vibration upon acceleration when driving in slippery conditions. This is normal and is an indication that the all-wheel drive system is functioning properly.

Windows

Manual Windows

To open your manual windows, turn the hand crank on each door to raise or lower your side door windows.

Power Windows (Option)

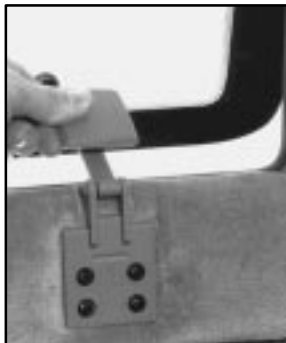


If you have the optional power windows, the controls are on each of the front side doors. The driver's door has a switch for the front passenger window as well. Your power windows will not move unless the ignition has been turned to RUN or ACCESSORY, or retained accessory power is present. See "Retained Accessory Power" in the Index.

Express-Down Window

The driver's window switch also has an express-down feature that allows you to lower it without holding the window switch. Press and hold the side of the driver's window switch down marked AUTO for one second to activate the express-down feature. The express-down feature can be interrupted at any time by pressing the up arrow end of the switch. Lightly tap the switch to open the window slightly.

Swing-Out Windows



To open your swing-out windows, pull up on the latch and push the window out.

To close the window, pull the latch toward you and push it down.

CAUTION:

It can be dangerous to drive with the rear swing-out windows, rear hatch or rear doors 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 rear swing-out windows, rear hatch or rear doors open or if electrical wiring or other cable connections must pass through the seal between the body and the rear swing-out windows, rear hatch or rear doors:

- **Make sure all other windows are shut.**
- **Turn the fan on your heating or cooling system to its highest speed with the setting on anything but MAX A/C. That will force outside air into your vehicle. See "Comfort Controls" in the Index.**
- **If you have air outlets on or under the instrument panel, open them all the way. See "Engine Exhaust" in the Index.**

Horn

To sound the horn, press the horn symbol on the center of the steering wheel.

Tilt Wheel (If Equipped)

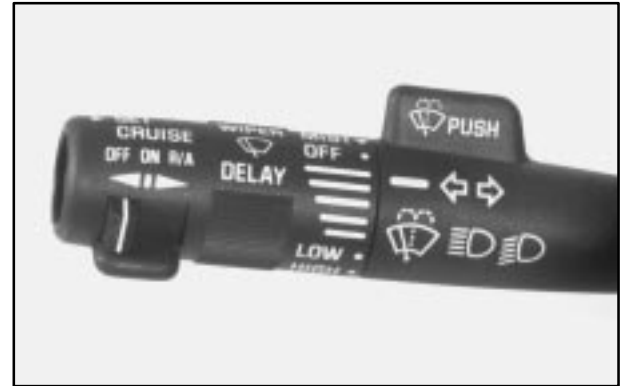


A tilt steering wheel allows you to adjust the steering wheel before you drive.

You can also raise it to the highest level to give your legs more room when you exit and enter the vehicle.

To tilt the wheel, hold the steering wheel and pull the lever. Move the steering wheel to a comfortable level, then release the lever to lock the wheel in place.

Turn Signal/Multifunction Lever



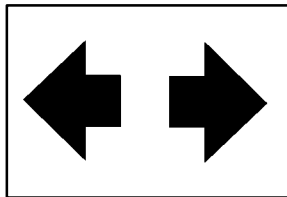
The lever on the driver's side of the steering column includes your:

- Turn and Lane Change Signals
- Headlamp High/Low Beam Changer
- Flash-to-Pass
- Windshield Wipers
- 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 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 arrows flash faster, 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 the fuse (see "Fuses and Circuit Breakers" in the Index) and for burned-out bulbs.

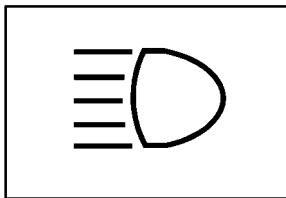
If you have a trailer towing option with added wiring for the trailer lamps, a different turn signal flasher is used. With this flasher installed, the signal indicator will flash even if a turn signal bulb is burned out. Check the front and rear turn signal lamps regularly to make sure they are working.

Turn Signal On Chime

If your turn signal is left on for more than 3/4 of a mile (1.2), a chime will sound at each flash of the turn signal. To turn off the chime, move the turn signal lever to the off position.

Headlamp High/Low Beam Changer

To change the headlamps from low beam to high or high to low, pull the multifunction lever all the way toward you. Then release it.



When the high beams are on, this indicator light on the instrument panel also will be on.

Flash-to-Pass

This feature lets you use your high-beam headlamps to signal a driver in front of you that you want to pass. It works even if your headlamps are in the automatic position.

To use it, pull the turn signal lever toward you, but not so far that you hear a click.

If your headlamps are in the automatic position or on low beam, your high-beam headlamps will turn on. They'll stay on as long as you hold the lever toward you and the high-beam indicator on the dash will come on. Release the lever to return to normal operation.

Windshield Wipers



You control the windshield wipers by turning the band with the wiper symbol on it.

For a single-wiping cycle, turn the band to MIST. 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.

You can set the wiper speed for a long or short delay between wipes. This can be very useful in light rain or snow. Turn the band to choose the delay time. The closer to LOW, the shorter the delay.

For steady wiping at low speed, turn the band away from you to LOW. For high-speed wiping, turn the band further, to HIGH. To stop the wipers, turn the band to OFF.

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 worn or damaged, get new blades or blade inserts.

Windshield Washer

At the top of the multifunction lever, there's a paddle marked with the windshield washer symbol and PUSH. To spray washer fluid on the windshield, press the paddle.

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.

The wipers will clear the window and then either stop or return to your preset speed.

Rear Window Washer/Wiper (Option)



You control your rear window washer/wiper from a switch located on your instrument panel, next to the audio system.

To turn the wiper on, slide the switch all the way up.

For delay wiping, slide the switch even with the word DELAY in the center position of the rear wiper control. The wiper will cycle every nine seconds.

To wash the window, push in on the switch. Window washer fluid will continue to spray until the switch is released. The wiper will continue with three more wipes and then return to the setting that was chosen before the lever was pushed.

The rear window washer uses the same fluid bottle as the front windshield washer. If the fluid level is low in the washer bottle, you may not be able to wash your rear window. If you can wash your windshield, but not your rear window, check the fluid level.

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 shuts off.

CAUTION:

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

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 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 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. Each time you do this, your vehicle will go about 1 mph (1.6 km/h) faster.

Reducing Speed While Using Cruise Control

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

- Press the 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 button briefly. Each time you do this, you'll go 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 want 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.
- Move the cruise switch to OFF.

Erasing Speed Memory

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

Exterior Lamps



Your lamp switch is located on the driver's side of the instrument panel.

Turn the knob clockwise to the parking lamp symbol to turn on the following:

- Parking Lamps
- Sidemarkers Lamps
- Taillamps
- License Plate Lamps
- Instrument Panel Lights

Turn the knob clockwise to the master lighting symbol to turn on all the lamps listed as well as the headlamps.

Turn the knob all the way counterclockwise to turn off your lamps and put the system in auto headlamp mode.

Automatic Headlamp System

When it is dark enough outside, your automatic headlamp system will turn on your headlamps at the normal brightness along with other lamps such as the taillamps, sidemarker, parking lamps and the instrument panel lights. The radio lights will also be dim.

Your vehicle is equipped with a light sensor on the top of the instrument panel in the defroster grille. Be sure it is not covered, or the system will be on whenever the ignition is on.

The system may also turn on your headlamps when driving through a parking garage, heavy overcast weather or a tunnel. This is normal.

There is a delay in the transition between the daytime and nighttime operation of the Daytime Running Lamps (DRL) and the automatic headlamp systems so that driving under bridges or bright overhead street lights does not affect the system. The DRL and automatic headlamp system will only be affected when the light sensor sees a change in lightning lasting longer than the delay.

To idle your vehicle with the automatic headlamp system off, set the parking brake while the ignition is off. Then start your vehicle. The automatic headlamp system will stay off until you release the parking brake.

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

Lamps On Reminder

A reminder tone will sound when your headlamps or parking lamps are manually turned on and your ignition is in the OFF, LOCK or ACCESSORY position. To disable the tone, turn the thumbwheel all the way down. In the automatic mode, the headlamps turn off once the ignition key is in OFF.

Daytime Running Lamps

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

The DRL system will make your headlamps come on at a reduced brightness when:

- the ignition is on,
- the headlamp switch is in automatic headlamp mode.
- the automatic transmission is not in PARK (P),
- the light sensor determines it is daytime and
- the parking brake is released.

When the DRL are on, only your DRL lamps will be on. The taillamps, sidemarker and other lamps won't be on. Your instrument panel won't be lit up either.

When it begins to get dark, the automatic headlamp system will switch from DRL to the headlamps or the last chosen headlamp setting that was used.

To idle the vehicle with the DRL off, set the parking brake. Shifting the transmission into PARK (P) will also allow you to idle the vehicle with the DRL off. The DRL will stay off until you release the parking brake or shift the transmission out of PARK (P).

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

Interior Lamps

Instrument Panel Intensity Control

The instrument panel intensity control is located to the right of the headlamp switch.

Turn the thumbwheel up to adjust the instrument panel lights. To turn on the dome lamps (with the vehicle doors closed) turn the thumbwheel all the way up.

Exit Lighting

With exit lighting, the interior lamps will come on when you remove the key from the ignition. The lights will not come on if the DOME OVERRIDE button is pressed in.

Illuminated Entry

Your vehicle is equipped with an illuminated entry feature.

When the doors are opened, the dome lamps will come on if the DOME OVERRIDE button is in the "out" position. When all the doors are closed, the lamps will stay on for a short period of time and will then go out. If the DOME OVERRIDE button is pressed in, the lamps will not come on.

Dome Lamps

The dome lamps will come on when you open the doors.

You can also turn the dome lamps on by turning the thumbwheel, located next to the parking/headlamps knob, all the way up. In this position, the dome lamps will remain on whether the doors are opened or closed.

You can use the DOME OVERRIDE button, located below the parking/headlamp knob, to set the dome lamps to come on automatically when the doors are opened, or remain off. To turn the lamps off, press the button into the “in” position, the dome lamps will remain off when the doors are open. To return the lamps to automatic operation, press the button again and return it to the “out” position. With the button in this position, the dome lamps will come on when you open a door.

Battery Run-Down Protection

This feature shuts off the dome, courtesy, vanity, reading and glove box if they are left on for more than 20 minutes when the ignition is off. This will keep your battery from running down.

If the battery run-down protection shuts off the interior lamps, it may be necessary to do one of the following to return to normal operation:

- Shut off all lamps and close all doors, or
- Turn the ignition key to RUN.

Mirrors

Inside Day/Night Rearview Mirror

You can adjust the mirror for day or night driving. Press the tab forward (away from you) for day driving. Pull the tab back (toward you) for night driving.

Outside Manual Adjust Mirror

Adjust your outside mirrors so you can just see the side of your vehicle.

You can fold them before entering a car wash. Pull the mirrors in toward the vehicle. Push the mirrors back out when finished. After pushing the mirror out, adjustment will be maintained.

Power Remote Control Mirror (If Equipped)



To move a mirror, turn the knob in the middle of the control to “L” for the driver’s side mirror or to “R” for the passenger’s side mirror. Then press the four-way pad to move the mirror in the desired direction. To make sure you do not accidentally move a mirror, return the knob to the middle (off) position after adjusting the mirrors.

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



Your front storage compartment/glove box is at the center of the engine cover. To open the compartment, press the two tabs together and pull.



If you have an optional sliding tray storage compartment, it is under the front passenger's seat. To open the compartment, move the latch in the top handle and pull the tray forward.



If you have rear storage compartments, pull up on the lid to open the cover.



There is also a map/storage pocket on the passenger's side of the engine cover console.

Overhead Console (Option)



The overhead console includes reading lamps, a compartment for a garage door opener, trip computer, a temperature and compass display and a storage compartment for sunglasses.

The reading lamps, trip computer and temperature and compass display will work when the ignition is in RUN, ACCESSORY or when Retained Accessory Power (RAP) is active. See “Retained Accessory Power” in the Index.

Reading Lamps



Press the button near each lamp to turn the reading lamps on and off.

The lamps can also be swiveled to point in the direction you want.

Installing a Garage Door Opener

If you have a garage door opener, the front overhead compartment can be used to conveniently store the opener.

1. To install the garage door opener, first open the compartment door by pressing the latch forward.



2. Peel the protective backing from the hook and loop patch.

3. Press it firmly to the back of your garage door opener, as close to the center of the opener as possible.

4. Center the garage door opener activation button over the console door button and press the opener firmly into place.



The pegs inside the compartment door are used to make sure the button on the compartment door will contact the control button on the garage door opener.

5. Add one peg at a time until the garage door opener operates with the compartment door closed when you press the button.

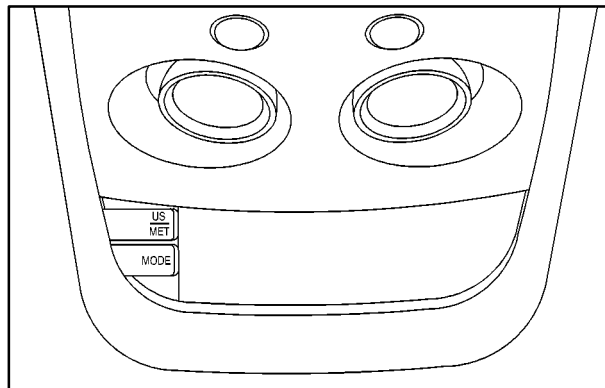


6. Now, with the compartment door closed, press the button again to make sure the garage door opener operates properly.

With the garage door opener positioned properly and the right number of pegs in place, you should only have to press the button slightly to operate the opener. Adjust the position of the garage door opener and add or remove pegs, as needed, until the opener operates properly.

Your vehicle may be equipped with a HomeLink[®] Transmitter. For more information, see “HomeLink[®] Transmitter” in the Index.

Driver Information System (If Equipped)



This system displays the outside air temperature, compass direction and trip information in the overhead console.

US/MET: The US/MET (United States/metric) button allows you to switch the display between the English and metric system.

MODE: The MODE button can be used to toggle between three modes of operation: OFF, COMP/TEMP and TRIP.

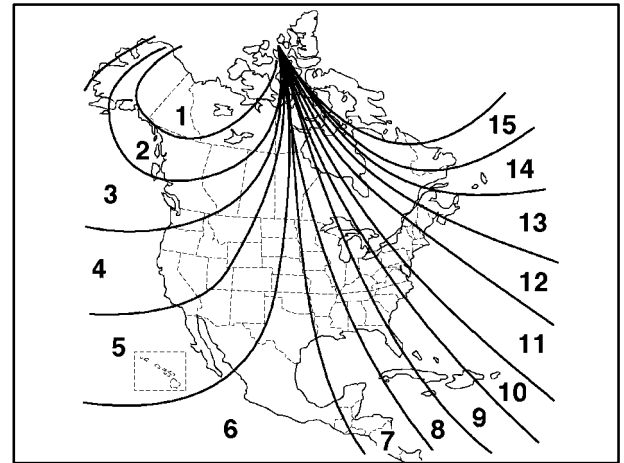
COMP/TEMP: The display provides the outside temperature and one of eight compass readings to indicate the direction the vehicle is facing.

Before you turn on the ignition and move the vehicle, the temperature indicated will be the last outside temperature recorded with the ignition on. If the outside temperature is 37°F (3°C) or lower, the display will toggle between the word ICE and the current temperature every eight seconds. This is a warning to the driver that road conditions may be icy, and that appropriate precautions should be taken.

The compass is self-calibrating, so it does not need to be manually set. However, if C (Calibration) is displayed, the compass will need to be calibrated. You may also place the compass in a noncalibrated mode by pressing and holding the MODE and US/MET buttons simultaneously while in the COMP/TEMP mode. After about 10 seconds, the compass will display C and you can release the buttons. Drive the vehicle in a complete 360° circle three times at a speed of less than 5 mph (8 km/h), and the compass will function normally. Once the calibration is complete, the display will return to a compass reading.

Variance is the difference between magnetic north and geographic north. In some areas, the difference between the two can be great enough to cause false compass readings. If this happens, follow these instructions to set the variance for your particular location:

1. Find your location on the zone map. Note your zone number.



2. Press and hold both the MODE and the US/MET buttons in the COMP/TEMP mode.

3. After five seconds, the compass will acknowledge the variation mode by displaying the current zone number. When it does, release both buttons.
4. Press US/MET until your zone number appears on the display.
5. Press MODE to enter your zone number. Your variance is now set and the display will return to the COMP/TEMP mode.

TRIP: Once in the TRIP mode, pressing the MODE button will take you through the following TRIP functions:

- **AVG ECON:** The average fuel economy since the last reset is displayed.
- **INST ECON:** Instantaneous fuel economy for the last second of driving is displayed.
- **RANGE:** The display indicates the estimated distance that can be travelled with the remaining fuel in the tank, based on the fuel economy for the last few hours of driving.
- **FUEL USED:** The fuel used since the last reset is displayed.
- **AVG SPEED:** The average speed since the last reset is displayed.

To reset the trip computer, press the MODE and US/MET buttons simultaneously for at least two seconds. All functions will be displayed for half a second once the system is reset. Reset can only be performed in the AVG ECON, FUEL USED and AVG SPEED modes. All three modes are reset simultaneously.

Sunglasses Storage Compartment



The console has a sunglasses storage compartment.

Convenience Net (Option)

You may have a convenience net in the rear of your vehicle to help keep small loads, like grocery bags, in place during sharp turns or quick stops and starts.

The net is not designed for larger, heavier items.

You can unhook the net so that it will lie flat when you're not using it.

Luggage Carrier (Option)

If you have a luggage carrier, you can load things on top of your vehicle.

The luggage carrier has slats, side rails and crossrails attached to the roof to secure cargo.

Be sure the cargo is properly loaded. Follow these guidelines:

- Carrying small, heavy loads on the roof is not recommended.
- Tie the load to the side rails. Use the crossrails only to keep the load from sliding.

- If you need to carry long items, tie the load to the side rails. Also tie the load to the bumpers. Do not tie the load so tightly that the crossrails or side rails are damaged.
- After moving the crossrails, be sure to tighten all the slider screws.
- For the purpose of wind noise reduction, locate the front and rear crossrails in line with the two center supports.

NOTICE:

Loading cargo that weighs more than 200 lbs. (91 kg) on the luggage carrier may damage your vehicle. When you carry large things, never let them hang over the rear or the sides of your vehicle. Load your cargo so that it rests on the slats and does not scratch or damage the vehicle. Put the cargo against the side rails and fasten it securely to the luggage carrier. Put the main weight as far forward as you can.

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.

Ashtrays and Cigarette Lighter

The cigarette lighter is on the left of the engine cover console.

To use the lighter, press it in all the way and let go. When it's done heating, it will pop back 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:

When using the cigarette lighter as an accessory power outlet, maximum electrical load must not exceed 20 amps. Always turn off any electrical equipment when not in use. Leaving electrical equipment on for extended periods will drain your battery.

The front ashtray is just above the passenger's side front cupholder.

To remove the front ashtray, open it and gently pull it slightly past its stop.

To remove the ashtray on the sliding door, open it, press down on the inside tab and pull out.

You may have another ashtray on the driver's sidewall. Press the right side to turn the ashtray around for use. To remove the ashtray, open it and gently pull it off the hinge.

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 swing them from side to side. Your visors may have an extension that can be pulled out for additional glare protection and a strap for holding small items, such as maps.

Visor Vanity Mirror (If Equipped)

Some visors have mirrors built in, with or without lamps. Just lift the mirror cover on each visor to turn the lamps on, if you have them.

Accessory Power Outlets

You can plug auxiliary electrical equipment into accessory power outlets. Just pull up from the bottom of the door and follow the proper installation instructions that are included with any electrical equipment that you install.

Two accessory power outlets are located on the passenger's side of the engine cover.

Another accessory power outlet is located on the driver's side behind the third row seating position, near the floor.

These circuits are protected by a fuse and have maximum current levels.

NOTICE:

When using the accessory power outlets, maximum electrical load must not exceed 25 amps. Always turn off any electrical equipment when not in use. Leaving electrical equipment on for extended periods will drain your battery.

HomeLink[®] Transmitter (Option)



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

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

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

Programming the Transmitter

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

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

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

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

If you have trouble programming the HomeLink Transmitter, make sure that you have followed the directions exactly as described and that the battery in the hand-held transmitter is not dead. If you still cannot program it, rotate the hand-held transmitter end over end and try again. The HomeLink Transmitter may not work with older garage door openers that do not meet current Federal Consumer Safety Standards. If you cannot program the transmitter after repeated attempts, refer to "Training a Garage Door Opener with Rolling Codes" later in this section or contact the manufacturer of the unit at 1-800-355-3515.

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

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

Operating the Transmitter

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

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

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

Training a Garage Opener with a “Rolling Code” Feature (If Equipped)

If you have not previously programmed the hand-held transmitter to the HomeLink Transmitter, see “Programming the Transmitter” listed previously.

If you have completed this programming already, you now need to train the garage door opener motor head unit to recognize the HomeLink Transmitter. Refer to your garage door opener owner’s manual for the proper transmitter training procedure for your garage door opener brand.

1. Find the training button on the garage door opener motor head unit. The exact location and color will vary by garage door opener brand. If you have difficulty finding the training button, refer to your garage door opener owner’s manual.
2. Press the training button on the garage door opener motor head unit. An indicator light will begin to flash when the motor head unit enters the training mode.

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

- Return to the HomeLink Transmitter in your vehicle and firmly press and release the HomeLink Transmitter button you have already programmed for two to three seconds. Press and release the button again (you may need to do this step up to three times) to make sure that the HomeLink Transmitter has been trained to the garage door opener motor head unit. Check that the training was successful. The motor head unit indicator light should no longer be flashing.

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

If after following these instructions, you still have problems training the garage door opener, call the manufacturer of the unit at 1-800-355-3515.

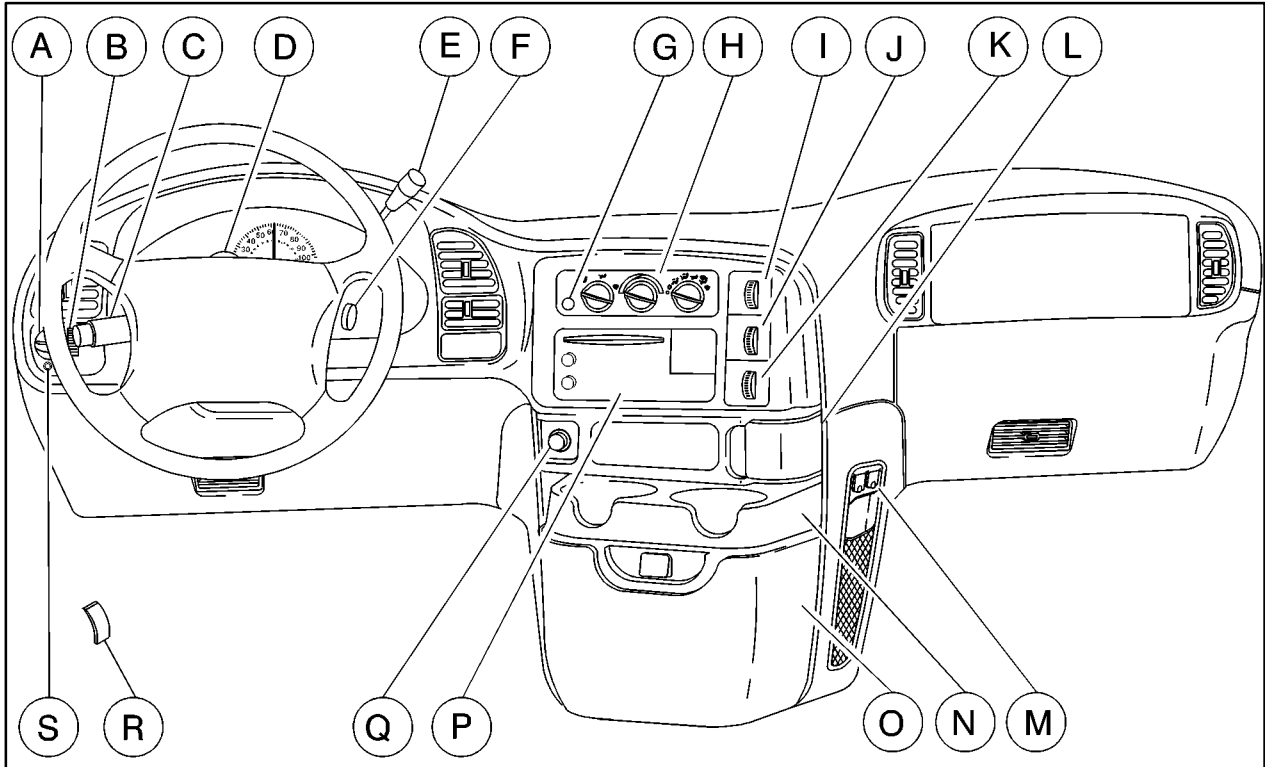
Erasing Channels

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

Accessories

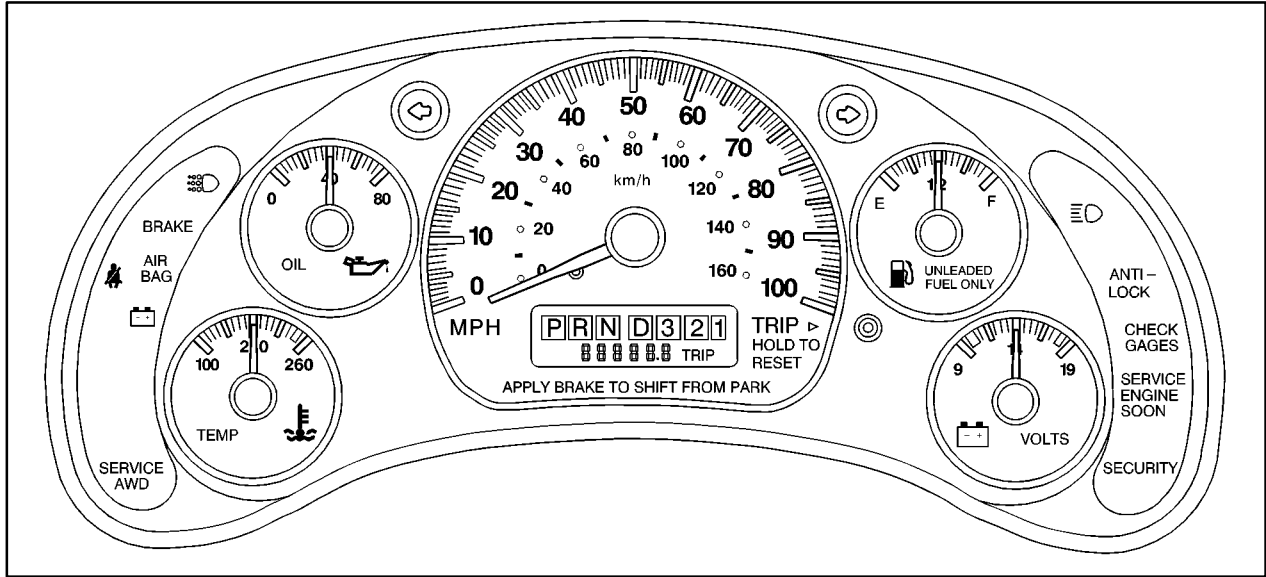
Accessories for the HomeLink Transmitter are available from the manufacturer of the unit. If you would like additional information, please call 1-800-355-3515.

The Instrument Panel - Your Information System



- A. Lamp Switches
- B. Instrument Panel Dimmer
- C. Multifunction Lever
- D. Hazard Lamp Switch
- E. Transmission Shift Lever
- F. Ignition Switch
- G. Rear Defogger (Option)
- H. Comfort Controls
- I. Rear A/C Control (Option)
- J. Rear Heater Control (Option)
- K. Rear Washer/Wiper (Option)
- L. Front Ashtray
- M. Accessory Power Outlets
- N. Cupholders/Storage Tray
- O. Front Storage Compartment
- P. Audio System
- Q. Cigarette Lighter
- R. Hood Release
- S. Dome Override Button

Instrument Panel Cluster



United States cluster shown -- Canada Cluster Similar

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, about how much fuel remains, and many other things you'll need to know to drive safely and economically.

Speedometer and 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 odometer is tamper resistant. The digital odometer will read 999,999 if someone tries to turn it back.

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 it must be. But 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.

Trip Odometer

The trip odometer can tell you how far your vehicle has been driven since you last set the trip odometer to zero.

The trip odometer will appear in place of your regular odometer when you press the TRIP button.

To reset the trip odometer, press and hold the TRIP button. To change back to the regular odometer, press the TRIP button again.

Warning Lights, Gages and Indicators

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

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

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

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

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

Safety Belt Reminder Light

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



The safety belt light will also come on and stay on for about 20 seconds, then it will flash for about 55 seconds.

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

Air Bag Readiness Light

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



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.

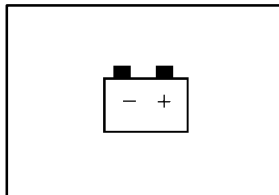
If the air bag readiness light stays on after you start the vehicle or comes on when you are driving, your air bag system may not work properly. Have your vehicle serviced right away.

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 RUN. If the light doesn't come on then, have it fixed so it will be ready to warn you if there is a problem.

Charging System Indicator Light

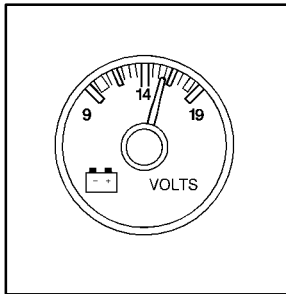


The charging system light will come on briefly when you turn the ignition on, but the engine is not running, as a check to show you the light is working.

Then 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 electrical charging system. It could indicate that you have a loose accessory drive belt, or another electrical problem. Have it checked right away. Driving while this light is on could drain your battery.

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

Voltmeter



When your engine is not running, but the ignition is on (in the RUN position), the gage shows your battery's state of charge in DC volts.

When the engine is running, the gage shows the condition of the charging system. Readings between the low and high warning zones indicate the normal operating range.

Readings in the low warning zone may occur when a large number of electrical accessories are operating in the vehicle and the engine is left at an idle for an extended period. This condition is normal since the charging system is not able to provide full power at engine idle. As engine speeds are increased, this condition should correct itself as higher engine speeds allow the charging system to create maximum power.

You can only drive for a short time with the readings in either warning zone. If you must drive, turn off all unnecessary accessories.

Readings in either warning zone indicate a possible problem in the electrical system. Have the vehicle serviced as soon as possible.

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.

A rectangular box with a black border containing the word "BRAKE" in bold, black, uppercase letters.

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

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

A yellow rectangular box with a black border containing a black exclamation mark inside a triangle, followed by the word "CAUTION:" in bold, black, uppercase letters.

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

A rectangular box with a black border containing the words "ANTI-LOCK" in bold, black, uppercase letters.

United States

A rectangular box with a black border containing the letters "(ABS)" in bold, black, uppercase letters, enclosed within a circle.

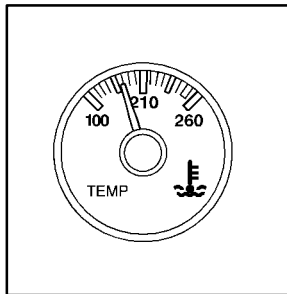
Canada

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

If the light stays on, or comes on when you're driving, your vehicle needs service. If the regular brake system warning light isn't on, you still have brakes, but you don't have anti-lock brakes. If the regular brake system warning light is also on, you don't have anti-lock brakes and there's a problem with your regular brakes. See "Brake System Warning Light" earlier in this section.

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

Engine Coolant Temperature Gage

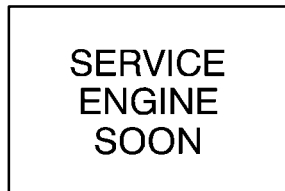


This gage shows the engine coolant temperature. If the gage pointer moves to the red area, your engine is too hot!

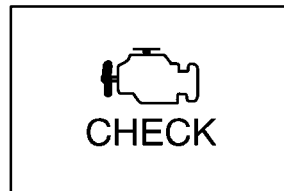
It means that your engine coolant has overheated. If you have been operating your vehicle under normal driving conditions, you should pull off the road, stop your vehicle and turn off the engine as soon as possible.

The “Problems on the Road” section of this manual shows you what to do. See “Engine Overheating” in the Index.

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



United States



Canada

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

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

NOTICE:

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

NOTICE:

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

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

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

If the Light Is Flashing

The following may prevent more serious damage to your vehicle:

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

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

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

If the Light Is On Steady

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

Did you recently put fuel into your vehicle?

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

Did you just drive through a deep puddle of water?

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

Have you recently changed brands of fuel?

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

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

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

Emissions Inspection and Maintenance Programs

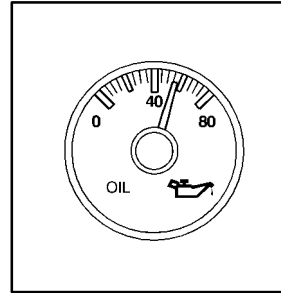
Some state/provincial and local governments have or may begin programs to inspect the emission control equipment on your vehicle. Failure to pass this inspection could prevent you from getting a vehicle registration.

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

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

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

Oil Pressure Gage



The oil pressure gage shows the engine oil pressure in psi (pounds per square inch) when the engine is running.

Canadian vehicles indicate pressure in kPa (kilopascals). Oil pressure may vary with engine speed, outside temperature and oil viscosity, but readings above the low pressure zone indicate the normal operating range.

A reading in the low pressure zone may be caused by a dangerously low oil level or other problems 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.

Security Light



SECURITY

This light will come on briefly when you turn the key to START.

The light will stay on until the engine starts. If the light flashes, the Passlock[®] System has entered a tamper mode. If the vehicle fails to start, see "Passlock" in the Index.

If the light comes on continuously while driving and stays on, there may be a problem with the Passlock System. Your vehicle will not be protected by Passlock, and you should see your GM dealer.

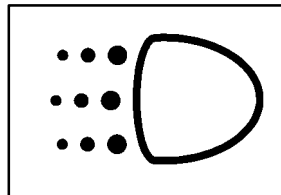
Service AWD Light (If Equipped)



This light should come on briefly when you turn on the ignition, as a check to show you it is working.

The SERVICE AWD light comes on to indicate that there may be a problem with the drive system and service is required. Malfunctions can be indicated by the system before any problem is apparent, which may prevent serious damage to the vehicle. This system is also designed to assist your service technician in correctly diagnosing a malfunction.

Daytime Running Lamps Indicator Light



You will have this light on the instrument panel. It goes on whenever the Daytime Running Lamps (DRL) are on.

When it begins to get dark, the DRL indicator light is a reminder to turn on your headlamps.

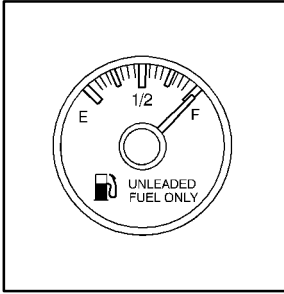
Check Gages Light



This light will come on briefly when you are starting the engine.

If the light comes on and stays on while you are driving, check your various gages to see if they are in the warning zones.

Fuel Gage



The fuel gage tells you approximately how much fuel you have remaining when the ignition is on.

When the gage first indicates E (Empty), you still have a little fuel left, but you should get more fuel as soon as possible.

Here are things some owners ask about. None of these indicate a problem with your fuel gage:

- At the gas station, the gas pump shuts off before the gage reads F (Full).
- The fuel tank will take either a little more or a little less fuel to fill up than the gage shows.
- The gage moves a little when you turn a corner or speed up.
- The gage doesn't go back to E (Empty) when you turn off the ignition.

Section 3 Comfort Controls and Audio Systems

In this section, you'll find out how to operate the comfort control and audio systems offered with your vehicle. Be sure to read about the particular systems supplied with your vehicle.

- | | | | |
|------|--|------|---|
| 3-2 | Comfort Controls | 3-12 | AM-FM Stereo with Cassette Tape Player (If Equipped) |
| 3-2 | Heating/Air Conditioning System | 3-15 | AM-FM Stereo with Cassette Tape Player and Automatic Tone Control (If Equipped) |
| 3-3 | Heating System | 3-19 | AM-FM Stereo with Compact Disc Player and Automatic Tone Control (If Equipped) |
| 3-4 | Rear Heating System (Option) | 3-24 | Rear Seat Audio (If Equipped) |
| 3-5 | Rear Air Conditioning System (Option) | 3-26 | Remote Compact Disc Player (If Equipped) |
| 3-5 | Air Conditioning | 3-28 | Theft-Deterrent Feature (If Equipped) |
| 3-6 | Heating | 3-30 | Understanding Radio Reception |
| 3-6 | Defrosting | 3-30 | Tips About Your Audio System |
| 3-6 | Ventilation System | 3-31 | Care of Your Cassette Tape Player |
| 3-8 | Rear Window Defogger (Option) | 3-33 | Care of Your Compact Discs |
| 3-9 | Audio Systems | 3-33 | Care of Your Compact Disc Player |
| 3-9 | Setting the Clock for Systems with SET Button | 3-33 | Fixed Mast Antenna |
| 3-9 | Setting the Clock for Systems with HR and MN Buttons | | |
| 3-10 | AM-FM Stereo | | |

Comfort Controls

This section tells you how to make your air system work for you.

With these systems, 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.

Heating/Air Conditioning System



If your vehicle has air conditioning, your heating/air conditioning controls will look like this.

Fan Knob

This control has four positions. To increase airflow, turn the knob toward HI. To decrease airflow, move it toward LO.

Temperature Knob

This knob is next to the fan knob. It controls the temperature of the air flowing into your vehicle. Turn the knob clockwise for warmer air. Turn the knob counterclockwise for cooler air.

Function Knob

This knob is next to the temperature knob.

OFF: This setting turns the system off.

MAX A/C: This cools the air the fastest, by recirculating the inside air. Turn the temperature knob all the way to MAX A/C.

A/C: This setting brings in outside air and cools it.



BI-LEVEL: This setting brings in outside air and blows it out through the heater floor vents and the instrument panel vents. If you move the temperature knob between hot and cold, cooler air will come out of the upper vents while warmer air comes out of the floor vent. The air conditioning compressor may operate in this setting to cool the air.



VENT: The air comes out at the vents on your instrument panel. The air conditioning compressor will not run in this position. Adjust the temperature knob for warmer or cooler air.



HEATER: Most of the air comes out near the floor. The rest comes out from the defroster vents under the windshield and at the front side windows.



BLEND: With this setting, the heated outside air comes out of both the heater vents and defroster vents. Adjust the temperature knob for warmer or cooler air. The air conditioning compressor may operate in this setting to dehumidify the air.



DEFROST: This setting operates the defroster. Most of the air comes out near the windshield, with some going to the floor vents and front side windows. The air conditioning compressor may operate in this setting to dehumidify the air.

Heating System



If your vehicle does not have air conditioning, your heater controls will look like this.

Fan Knob

This control has four positions. To increase airflow, turn the knob toward HI. To decrease airflow, move it toward LO.

Temperature Knob

This knob is next to the fan knob. It controls the temperature of the air flowing into your vehicle. Turn the knob clockwise for warmer air. Turn the knob counterclockwise for cooler air.

Function Knob

This knob is next to the temperature knob. The function knob allows you to choose the direction of air delivery.

OFF: This setting turns the system off.



VENT: The air comes out at the vents on your instrument panel.



BI-LEVEL: With this setting, the heated outside air comes out both the instrument panel vents and heater vents. Adjust the temperature knob for warmer or cooler air.



HEATER: Most of the air comes out near the floor. The rest comes out from the defroster vents under the windshield and at the front side windows.



BLEND: With this setting, the heated outside air comes out both the heater vents and defroster vents. Adjust the temperature knob for warmer or cooler air.



DEFROST: This setting operates the defroster. Most of the air comes out near the windshield, with some going to the floor vents and front side windows.

Rear Heating System (Option)



You may have the optional rear heater. The three-speed fan switch is to the right of the radio. Turn the switch toward **HIGH** for higher airflow in the rear area. Turn the switch to the **OFF** position to turn the system off.

Rear Air Conditioning System (Option)



You may have rear air conditioning. The rear air conditioning switch is located to the right of the heater controls. Turn the switch toward HIGH for higher airflow in the rear area. Turn the switch to the OFF position to turn the system off.

Air Conditioning

Before using your vehicle's air conditioning, open the windows to clear the vehicle of hot air. This reduces the time it takes for your vehicle to cool down. Then keep your windows closed for the air conditioner to work at its best.

You can use MAX A/C with the temperature knob in the blue area when it's really hot outside and you need to cool the inside air quickly. MAX A/C lets in only a little air from the outside.

If you first use MAX A/C, you can then use A/C with the temperature knob in the blue area as soon as the vehicle has cooled down, so outside air will be going through your vehicle.

If your vehicle has rear air conditioning, setting it on LOW may enhance the front A/C performance by allowing trapped refrigerant in the rear lines to circulate.

The rear air conditioning system will only send cooled air if the front system is on. It can still be used to circulate air, even if the front system is off.

When the air conditioning, DEFROST or BLEND is on, you may notice a slight increase or decrease in engine speed, due to compressor operation. This is normal because the system is designed to cycle the compressor on and off to keep the desired temperature.

Heating

On cold days, use HEATER with the temperature knob in the red area. Outside air will be brought in through the floor outlets. The heater works best if you keep your windows closed while using it.

If you use the optional engine coolant heater before starting your engine, your heating system will produce warmer air faster to heat the passenger compartment in cold weather. See “Engine Coolant Heater” in the Index.

Defrosting

Use DEFROST to remove fog or ice from the windshield quickly in extremely cold conditions. The temperature knob should be in the red area and the fan control toward high. The air conditioning compressor may operate in this setting to dehumidify the air.

The BLEND setting is useful for cold weather with a large number of passengers or very humid conditions to help keep the windshield clear.

Ventilation System

For mild outside temperatures when little heating or cooling is needed, use VENT to direct outside air through your vehicle. Air will flow through the instrument panel vents.

Your vehicle’s flow-through ventilation system supplies outside air to the inside of your vehicle when it is moving. With the side windows closed, air will flow into the front air inlet grilles at the base of the windshield, through the vehicle and out the rear air exhaust valve. Outside air will also enter the vehicle when the heater or the air conditioning fan is running.



Your vehicle has air vents near the center and on the sides of the instrument panel that allow you to adjust the direction and the amount of airflow inside the vehicle. Move the dial on the vent up or down to direct airflow to your preference. Increase or reduce the amount of airflow by opening and closing the louvers. The vents rotate to direct the airflow from side to side.

When you close a vent, it will increase the flow of air coming out of any vents that are open.

If you have rear heating or rear air conditioning, you will have adjustable vents in the rear of the vehicle to help direct the airflow. The rear air conditioning vents are located in the headliner at the rear of the vehicle. The rear heating vents are located next to the second and third seat on the driver's side of the vehicle, near the floor. You can move the vents to direct the flow of air, or close the vents altogether. When you close a vent, it will increase the flow of air coming out of any vents that are open.

Ventilation Tips

- Keep the hood and front air inlet free of ice, snow or any other obstruction (such as leaves). The heater and defroster will work far better, reducing the chance of fogging the inside of your windows.
- When you enter a vehicle in cold weather, turn the blower fan to **HIGH** 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 air path under the front seats clear of objects. This helps air to circulate throughout your vehicle.

Rear Window Defogger (Option)

If your vehicle has this option, the rear window will have lines running across the glass. These lines heat your window.

For best results, clear the window of as much snow or ice as possible before using the rear window defogger.



To turn on the rear window defogger, find the button to the left of the heater controls with the defog symbol on it.

Press the button until the light comes on, then release it.

The rear window defogger will only work when the ignition is in RUN.

You can turn the defogger off at any time by pressing the button again. The defogger will shut itself off after several minutes so that the glass does not get too hot. If the window still isn't clear, turn the defogger on again.

Do not attach a temporary vehicle license, tape or decals across the defogger grid on the rear window.

NOTICE:

Don't use a razor blade or something else sharp on the inside of the rear window. If you do, you could cut or damage the defogger and the repairs would not be covered by your warranty.

Audio Systems

Your audio system has been designed to operate easily and give years of listening pleasure. You will get the most enjoyment out of it if you acquaint yourself with it first. Find out what your audio system can do and how to operate all its controls, to be sure you're getting the most out of the advanced engineering that went into it.

Setting the Clock for Systems with SET Button

Press SET. Within five seconds, press and hold the SEEK right arrow until the correct minute appears on the display. Press and hold the SEEK left arrow until the correct hour appears on the display.

Setting the Clock for Systems with HR and MN Buttons

Press and hold HR until the correct hour appears on the display. Press and hold MN until the correct minute appears on the display. To display the clock with the ignition off, press RECALL or HR/MN and the time will be displayed for a few seconds. There is an initial two-second delay before the clock goes into the time-set mode.

AM-FM Stereo



Playing the Radio

VOLUME: This knob turns the system on and off and controls the volume. To increase volume and turn the radio on, turn the knob clockwise. Turn it counterclockwise to decrease volume and turn the radio off.

RECALL: Display the time with the ignition off by pressing the recall knob. When the radio is playing, press this knob to recall the station frequency.

Finding a Station

AM-FM: Press the lower knob to switch between AM and FM. The display shows your selection.

TUNE: Turn the lower knob to tune in radio stations.

SEEK: Press the right arrow to tune to the next higher station and the left arrow to tune to the next lower station and stay there.

SCAN: Select either AM, FM1 or FM2 mode and press both SEEK buttons to listen to a few seconds of each radio station. SCAN will light up on the display. The radio will automatically SCAN to the next higher station, play that station for a few seconds, then SCAN to the next higher station. Press VOLUME or both SEEK buttons to stop scanning.

PUSHBUTTONS: The four numbered pushbuttons let you return to your favorite stations. You can set up to 14 stations (seven AM and seven FM). Just:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press SET. (SET will appear on the display.)

5. Press one of the four pushbuttons within five seconds. Whenever you press that numbered button, the station you set will return.
6. Repeat the steps for each pushbutton.

In addition to the four stations already set, up to three more stations may be preset on each band by pressing two adjoining buttons at the same time. Just:

1. Tune in the desired station.
2. Press SET. (SET will appear on the display.)
3. Press two adjoining buttons at the same time, within five seconds. Whenever you press the same two buttons, the station you set will return.
4. Repeat the steps for each pair of pushbuttons.

Setting the Tone

BASS: Slide this lever up or down to increase or decrease bass.

TREB: Slide this lever up or down to increase or decrease treble. If a station is weak or noisy, you may want to decrease the treble.

Adjusting the Speakers

BAL: Turn the control behind the upper knob to move the sound to the left or right speakers. The middle position balances the sound between the speakers.

FADE: Turn the control behind the lower knob to move the sound to the front or rear speakers. The middle position balances the sound between the speakers.

AM-FM Stereo with Cassette Tape Player (If Equipped)



Playing the Radio

VOLUME: This knob turns the system on and off and controls the volume. To increase volume and turn the radio on, turn the knob clockwise. Turn it counterclockwise to decrease volume and turn the radio off.

RECALL: Display the time with the ignition off by pressing this knob. When the radio is playing, press this knob to recall the station frequency.

Finding a Station

AM-FM: Press the lower knob to switch between AM, FM1 and FM2.

TUNE: Turn the lower knob to tune in radio stations.

SEEK: Press the right arrow to tune to the next higher station and the left arrow to tune to the next lower station.

PUSHBUTTONS: The four numbered pushbuttons let you return to your favorite stations. You can set up to 21 stations (seven AM, seven FM1 and seven FM2). Just:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press SET. (SET will appear on the display.)
5. Press one of the four pushbuttons within five seconds. Whenever you press that numbered button, the station you set will return.
6. Repeat the steps for each pushbutton.

In addition to the four stations already set, up to three more stations may be preset on each band by pressing two adjoining buttons at the same time. Just:

1. Tune in the desired station.
2. Press SET. (SET will appear on the display.)
3. Press two adjoining buttons at the same time, within five seconds. Whenever you press the same two buttons, the station you set will return.
4. Repeat the steps for each pair of pushbuttons.

P.SCAN: Select either AM, FM1 or FM2 mode and press both SEEK buttons to scan through each of your preset stations. The system will scan through and play each preset station stored on your pushbuttons for a few seconds. Press either SEEK button or RECALL to stop scanning through the preset stations.

Setting the Tone

BASS: Slide this lever up or down to increase or decrease bass.

TREB: Slide this lever up or down to increase or decrease treble. If a station is weak or noisy, you may want to decrease the treble.

Adjusting the Speakers

BAL: Turn the control behind the upper knob to move the sound to the left or right speakers. The middle position balances the sound between the speakers.

FADE: Turn the control behind the lower knob to move the sound to the front or rear speakers. The middle position balances the sound between the speakers.

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.

Once the tape is playing, use the knobs for VOLUME, BAL, FADE, BASS and TREB just as you do for the radio.

REV: Press the SEEK left arrow to reverse the cassette tape. Press the SEEK right arrow to stop reversing the tape.

FWD: Press the SEEK right arrow to advance the cassette tape. Press the SEEK left arrow to stop forwarding the tape.

RECALL: Press this knob to switch tape sides.

EJECT: Press this button to remove the tape or stop the tape and play the radio.

CLN: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold EJECT for five seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

CD Adapter Kits

It is possible to use a portable CD player adapter kit with your cassette tape player after activating the bypass feature on your tape player.

To activate the bypass feature, use the following steps:

1. Turn the radio on.
2. Insert the adapter into the cassette slot.
3. Within five seconds, press and hold the REV and FWD buttons at the same time for three seconds. The tape symbol on the display will flash, showing that the cut tape detection feature is no longer active.

This override routine will remain active until EJECT is pressed.

AM-FM Stereo with Cassette Tape Player and Automatic Tone Control (If Equipped)



Playing the Radio

PWR-VOL: Press this knob to turn the system on and off. To increase volume, turn the knob clockwise. Turn it counterclockwise to decrease volume. The knob is capable of being rotated continuously.

RECALL: Display the time with the ignition off by pressing this button. When the radio is playing, press this button to recall the station frequency.

SCV: Your system has a feature called Speed-Compensated Volume (SCV). 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. Turn the control ring behind the upper knob clockwise to adjust the SCV. Then, as you drive, SCV automatically increases the volume, as necessary, to overcome noise at any particular speed. The volume level should always sound the same to you as you drive. If you don't want to use SCV, turn the control all the way down. Each notch on the control ring allows for more volume compensation at faster vehicle speeds.

Finding a Station

AM-FM: Press this button to switch between AM, FM1 and FM2. The display will show your selection.

TUNE: Press this knob lightly so it extends. Turn it to choose radio stations. Push the knob back into its stored position when you're not using it.

SEEK: Press the right arrow to tune to the next higher station and the left arrow to tune to the next lower station and stay there. The sound will mute while seeking.

SCAN: Press and hold SEEK for two seconds until SCAN appears on the display. SCAN allows you to listen to stations for a few seconds. The receiver will continue to scan and momentarily stop at each station until you press the button again. The sound will mute while scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. You can set up to 18 stations (six AM, six FM1 and six FM2). Just:

1. Turn the radio on.
2. Press AM-FM to select the band.

3. Tune in the desired station.
4. Press AUTO TONE to select the setting you prefer.
5. Press and hold one of the six pushbuttons. The sound will mute. When it returns, release the button. Whenever you press that numbered button, the station you set will return and the tone you selected will be automatically selected for that button.
6. Repeat the steps for each pushbutton.

P.SCAN: The preset scan button lets you scan through your favorite stations stored on your pushbuttons. Select either the AM, FM1 or FM2 mode and then press P. SCAN. It will scan through each station stored on your pushbuttons and stop for a few seconds before continuing to scan through all of the pushbuttons. Press P. SCAN again or one of the pushbuttons to stop scanning to listen to a specific preset station. P. SCAN will light up on the display while in this mode. If one of the stations stored on a pushbutton is too weak for the location you are in, the radio display will show the channel number (P1-P6) for several seconds before advancing to the next preset station.

Setting the Tone

BASS: Press lightly on this knob to release it from its stored position. Turn the knob clockwise to increase bass and counterclockwise to decrease bass. When the BASS control is rotated, the AUTO TONE display will go blank.

TREB: Press lightly on this knob to release it from its stored position. Turn the knob clockwise to increase treble and counterclockwise to decrease treble. When the TREB control is rotated, the AUTO TONE display will go blank. If a station is weak or noisy, you may want to decrease the treble.

Push these knobs back into their stored positions when you're not using them.

AUTO TONE: Press this button to select among the six preset equalization settings and tailor the sound to the music or voice being heard. Each time you press the button, the selection will switch to one of the preset settings of CLASSIC, NEWS, ROCK, POP, C/W (Country/Western) or JAZZ. To return to the manual mode, press and release this button until the AUTO TONE display goes blank. This will return the tone adjustment to the BASS and TREB controls. If a BASS or TREB control is rotated, the AUTO TONE display will go blank. Use PUSHBUTTONS to program AUTO TONE.

Adjusting the Speakers

BAL: Press lightly on this knob to release it from its stored position. Turn the control clockwise to adjust sound to the right speakers and counterclockwise to adjust sound to the left speakers. The middle position balances the sound between the speakers.

FADE: Press lightly on this knob to release it from its stored position. Turn the control clockwise to adjust the sound to the front speakers and counterclockwise for the rear speakers. The middle position balances the sound between the speakers.

Push these knobs back into their stored positions when you're not using them.

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.

To load a cassette tape with the ignition off, press EJECT or RECALL. Then, insert the cassette tape. If the ignition is on but the radio is off, the tape will begin playing.

Once the tape is playing, use the VOL, AUTO TONE, BAL, FADE, BASS and TREB controls just as you do for the radio. The tape symbol and a direction arrow will be on the display whenever a tape is being played. Anytime a tape is inserted, the top side is selected for play first.

The player automatically senses if the cassette tape is metal or CrO₂ and adjusts for best playback sound.

PREV (1): Press the PREV button or the SEEK left arrow to search for the previous selection. A minimum three-second blank gap is required for the player to stop at the beginning of the selection. The tape direction arrow will blink during the SEEK operation.

PROG (2): Press this button to switch from one side of the tape to the other.

NEXT (3): Press the NEXT button or the SEEK right arrow to search for the next selection. A minimum three-second blank gap is required for the player to stop at the beginning of the selection. The tape direction arrow will blink during the SEEK operation. The sound will mute while searching for the next selection.

REV (4): Press this button to rapidly reverse the tape to the beginning of the cassette or until you press REV again. The radio will play the last selected station while reversing the tape. The tape direction arrow will blink during the reverse operation.

DD (5): Press this button to reduce cassette tape noise. The double-D symbol will appear on the display while the player is in this mode.

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.

FWD (6): Press this button to rapidly forward the tape to the end of the cassette or until you press FWD again. The radio will play the last selected station while forwarding the tape. The tape direction arrow will blink during the forward operation.

AM-FM: Press this button to switch from a tape to the radio.

TAPE AUX: Press this button to return to the tape player when playing the radio. The lighted arrow will appear and show the direction of play when a tape is in the active mode.

EJECT: Press this button to remove the tape. The radio will now play. EJECT can be used with either the ignition or radio off. To load a cassette tape with the ignition or radio off, press EJECT before loading the cassette.

CLN: If this message appears on the display, the cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to the tapes and player. See “Care of Your Cassette Tape Player” in the Index. After you clean the player, press and hold EJECT for five seconds to reset the CLN indicator. The radio will display --- to show the indicator was reset.

CD Adapter Kits

It is possible to use a portable CD player adapter kit with your cassette tape player after activating the bypass feature on your tape player.

To activate the bypass feature, use the following steps:

1. Turn the ignition to RUN or ACCESSORY.
2. Turn the radio off.
3. Press and hold the TAPE AUX button for five seconds. The tape symbol on the display will flash for two seconds, indicating the feature is active.
4. Insert the adapter into the cassette slot. It will power up the radio and begin playing.

This override routine will remain active until EJECT is pressed.

AM-FM Stereo with Compact Disc Player and Automatic Tone Control (If Equipped)



Playing the Radio

PWR-VOL: Press this knob to turn the system on and off. To increase volume, turn this knob clockwise. Turn it counterclockwise to decrease volume. The knob is capable of rotating continuously.

RECALL: Display the time with the ignition off by pressing this button. When the radio is playing, press this button to recall the station frequency.

SCV: Your system has a feature called Speed-Compensated Volume (SCV). 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. Turn the control ring behind the upper knob clockwise to adjust the SCV. Then, as you drive, SCV automatically increases the volume, as necessary, to overcome noise at any particular speed. The volume level should always sound the same to you as you drive. If you don't want to use SCV, turn the control all the way down. Each notch on the control ring allows for more volume compensation at faster vehicle speeds.

Finding a Station

AM-FM: Press this button to switch between AM, FM1 and FM2. The display will show your selection.

TUNE: Press this knob lightly so it extends. Turn it to choose radio stations. Push the knob back into its stored position when you're not using it.

SEEK: Press the right arrow to tune to the next higher station and the left arrow to tune to the next lower station and stay there. The sound will mute while seeking.

SCAN: Press and hold SEEK for two seconds until SCAN appears on the display. SCAN allows you to listen to stations for a few seconds. The receiver will continue to scan and momentarily stop at each station until you press the button again. The sound will mute while scanning.

PUSHBUTTONS: The six numbered pushbuttons let you return to your favorite stations. You can set up to 18 stations (six AM, six FM1 and six FM2). Just:

1. Turn the radio on.
2. Press AM-FM to select the band.
3. Tune in the desired station.
4. Press AUTO TONE to select the setting you prefer.
5. Press and hold one of the six pushbuttons. The sound will mute. When it returns, release the button. Whenever you press that numbered button, the station you set will return and the tone you selected will be automatically selected for that button.
6. Repeat the steps for each pushbutton.

P.SCAN: The preset scan button lets you scan through your favorite stations stored on your pushbuttons. Select either the AM, FM1 or FM2 mode and then press P.SCAN. It will scan through each station stored on your pushbuttons and stop for a few seconds before continuing to scan through all of the pushbuttons. Press P.SCAN again or one of the pushbuttons to stop scanning to listen to a specific stored station. P.SCAN will light up on the display while in this mode. If one of the stations stored on a pushbutton is too weak for the location you are in, the radio display will show the channel number (P1-P6) for several seconds before advancing to the next preset station.

Setting the Tone

BASS: Press lightly on this knob to release it from its stored position. Turn the knob clockwise to increase bass and counterclockwise to decrease bass. When the BASS control is rotated, the AUTO TONE display will go blank.

TREB: Press lightly on this knob to release it from its stored position. Turn the knob clockwise to increase treble and counterclockwise to decrease treble. When the TREB control is rotated, the AUTO TONE display will go blank. If a station is weak or noisy, you may want to decrease the treble.

Push these knobs back into their stored positions when you're not using them.

AUTO TONE: Press this button to select among the six preset equalization settings and tailor the sound to the music or voice being heard. Each time you press the button, the selection will switch to one of the preset settings of CLASSIC, NEWS, ROCK, POP, C/W (Country/Western) or JAZZ. To return to the manual mode, press and release this button until the AUTO TONE display goes blank. This will return the tone adjustment to the BASS and TREB controls. If a BASS or TREB control is rotated, the AUTO TONE display will go blank. Use PUSHBUTTONS to program AUTO TONE.

Adjusting the Speakers

BAL: Press lightly on this knob to release it from its stored position. Turn the control clockwise to adjust sound to the right speakers and counterclockwise to adjust sound to the left speakers. The middle position balances the sound between the speakers.

FADE: Press lightly on this knob to release it from its stored position. Turn the control clockwise to adjust the sound to the front speakers and counterclockwise for the rear speakers. The middle position balances the sound between the speakers.

Push these knobs back into their stored positions when you're not using them.

Playing a Compact Disc

PWR: Press this knob to turn the system on. (You can also turn the system on when you insert a compact disc into the player with the ignition on.)

Insert a disc partway into the slot, label side up. The player will pull it in. Wait a few seconds and the disc should play. CD and a CD symbol will also appear on the display. Anytime you are playing a CD, the letters CD will be next to the CD symbol.

If the disc comes back out and ERR appears on the display, it could be that:

- You are driving on a very rough road. (The disc should play when the road gets smoother.)
- The disc is upside down.
- It is dirty, scratched or wet.
- It is very humid. (If so, wait about an hour and try again.)
- The disc player is very hot.

Press RECALL to make ERR go off the display.

PREV (1): Press PREV or the SEEK left arrow to search for the previous selection. If you hold this button or press it more than once, the disc will advance further. Sound is muted in this mode.

RDM (2): Press this button to play the tracks on the disc in random order. While in the RDM mode, RANDOM appears on the display. Press RDM again to return to normal play.

NEXT (3): Press NEXT or the SEEK right arrow to search for the next selection. If you hold this button or press it more than once, the disc will advance further. The next track number will appear on the display. Sound is muted in this mode.

REV (4): Press and hold REV to return rapidly to a favorite passage. You will hear the disc selection play at high speed while you press the REV button. This allows you to listen and find out when the disc is at the desired selection. Release REV to resume playing.

FWD (6): Press and hold this button to advance rapidly within a track. You will hear the disc selection play at high speed while you press the FWD button. This allows you to listen and find out when the disc is at the desired selection. Release FWD to resume playing.

RECALL: Press this button to see what track is playing. Press it again within five seconds to see how long the CD has been playing that track. Elapsed time is displayed in minutes and seconds. The track number will also appear when a new track begins to play. Press RECALL again to return to the time display.

AM-FM: While in the CD mode, press this button to stop playing the CD and play the radio. The CD symbol will still display but the word CD will be replaced with either AM, FM1 or FM2. (If the radio is turned off, the disc stays in the player and will resume playing at the point where it stopped.)

CD AUX: To switch between the player and the radio when a disc is playing, press the AM-FM button. To return to the player, press CD AUX. When a disc is playing, the letters CD and the CD symbol will appear on the display. (If the radio is turned off, the disc stays in the player and will resume playing at the point where it stopped.)

EJECT: Press this button to eject the disc from the player and play the radio. When the same or a new disc is inserted, the disc will start playing on track one. If a compact disc is left sitting in the opening for more than a few seconds, the player will pull the CD back in. The radio will continue playing. When the ignition is off, press this button to load a CD.

Rear Seat Audio (If Equipped)



This feature allows rear seat passengers to listen to any of the music sources including AM-FM, automatic tone control, 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 through headphones 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. Be aware that the front seat audio controls always override the rear seat audio controls.

Note that this feature is intended for rear seat passengers.

PWR: Press this button to turn the rear seat audio system on or off. The rear speakers will be muted when the power is turned on. You may operate the rear seat audio functions even when the primary radio power is off.

VOL: 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 upper headphone and the lower VOL knob controls the lower headphone.

AM-FM: Press this button to switch between AM, FM1 and FM2. If the front passengers are already listening to AM-FM, the rear seat audio controller will not switch between the bands and cannot change the frequency.

SEEK: While listening to AM-FM, press the up arrow to tune to the next higher station and stay there. Press the down arrow to tune to the next lower 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 selection on the CD. Press the down arrow to go back to the start of the current selection (if more than eight seconds have played). The SEEK button is inactive if the CD mode on the front radio is in use.

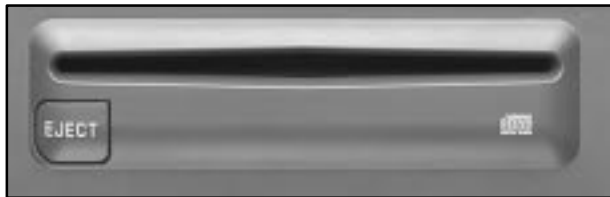
SCAN: Press and hold SEEK until the radio goes into SCAN mode. SCAN allows you to listen to stations for a few seconds. The receiver will continue to scan and momentarily stop at each station until you press SEEK again. The SCAN function is inactive if the AM-FM mode on the front radio is in use.

P.SET PROG: The front passengers must be listening to something different for each of these functions to work:

- Press this button to seek through the preset radio stations set on your primary radio pushbuttons.
- When a cassette tape is playing, press this button to go to the other side of the tape.

TAPE CD: With a cassette tape/CD in the player and the radio playing, press this button to play a cassette tape/CD. Press AM-FM to return to the radio when a cassette tape/CD is playing. The inactive tape/CD will remain safely inside the radio for future listening.

Remote Compact Disc Player (If Equipped)



If you have this option, you can play one compact disc (CD) at a time.

To load a CD into the player, hold the disc with the label side up and insert it carefully into the player (approximately halfway). The disc will automatically be pulled into the player. If the radio is off and the ignition is on when a CD is inserted, the radio will turn on and begin playing the CD. It is possible to load and unload CDs with the ignition off. To load a disc with the ignition off, press the EJECT button on the remote player and then insert the disc. To remove the disc, press the EJECT button and remove the disc from the player.

A disc that has been ejected but is still sitting in the remote CD player will be pulled back into the player after approximately 30 seconds. This protects the disc and player from damage. The disc will not start playing. To remove the disc, press the EJECT button and remove the disc from the player.

All of the compact disc functions are controlled by the radio buttons except for EJECT. When a disc is in the player, a CD symbol will appear on the display. When a disc is playing, the letters CD will appear next to the CD symbol in the bottom left corner. The track number will also be displayed.

If the disc comes back out and ERR appears on the display, it could be that:

- The disc is upside down.
- It is dirty, scratched or wet.
- There's too much moisture in the air. (Wait about an hour and try again.)
- You are driving on a very rough road.

Please contact your dealership if any error recurs or cannot be corrected.

PREV (1): Press this button to go back to the start of the current track if more than eight seconds have played. Press PREV again to go to the previous track on the disc.

NEXT (3): Press this button to advance to the next track on the disc.

REV (4): Press and hold this button to quickly reverse within a track. As the CD reverses, elapsed time will be displayed to help you find the correct passage.

FWD (6): Press and hold this button to quickly advance within a track. As the CD advances, elapsed time will be displayed to help you find the correct passage.

SEEK: Press the left arrow while playing a CD to go back to the start of the current track. It will go back to the current track if more than eight seconds have played. Press the left arrow again to go to previous tracks. Press the right arrow to go to the next higher track on the disc.

RANDOM: Press P.SCAN to enter the random play mode. RANDOM will appear on the display. While in this mode, the tracks on the disc will be played in random order. If you press SEEK, PREV or NEXT while in the random mode, the previous or next track will be scanned randomly. Press P.SCAN again to turn off RANDOM and return to normal operation.

RECALL: Press this button to see what track is currently playing. Press RECALL again within five seconds to see how long the track has been playing. When a new track starts to play, the track number will also appear. Press RECALL a third time and the time of day will be displayed.

TAPE AUX: With a disc loaded in the player and the radio playing, press this button once to play the compact disc. To return to playing the radio, press AM-FM. If both a cassette tape and CD are loaded, press TAPE AUX to switch between the tape and compact disc.

EJECT: Press this button on the remote player to eject a compact disc.

Theft-Deterrent Feature (If Equipped)

THEFTLOCK[®] is designed to discourage theft of your radio. It works by using a secret code to disable all radio functions whenever battery power is removed.

The THEFTLOCK feature for the radio may be used or ignored. If ignored, the system plays normally and the radio is not protected by the feature. If THEFTLOCK is activated, your radio will not operate if stolen.

When THEFTLOCK is activated, the radio will display LOC to indicate a locked condition anytime battery power has been interrupted. If your battery loses power for any reason, you must unlock the radio with the secret code before it will operate.

Activating the Theft-Deterrent Feature

The instructions which follow explain how to enter your secret code to activate the THEFTLOCK system. It is recommended that you read through all nine steps before starting the procedure.

If you allow more than 15 seconds to elapse between any steps, the radio automatically reverts to time and you must start the procedure over at Step 4.

1. Write down any three or four-digit number from 000 to 1999 and keep it in a safe place separate from the vehicle.
2. Turn the ignition to ACCESSORY or RUN.
3. Turn the radio off.
4. Press the 1 and 4 buttons together. Hold them down until --- shows on the display. Next you will use the secret code number which you have written down.
5. Press MN and 000 will appear on the display.
6. Press MN again to make the last two digits agree with your code.
7. Press HR to make the first one or two digits agree with your code.
8. Press AM-FM after you have confirmed that the code matches the secret code you have written down. The display will show REP to let you know that you need to repeat Steps 5 through 7 to confirm your secret code.
9. Press AM-FM and this time the display will show SEC to let you know that your radio is secure. The LED indicator by the volume control will begin flashing when the ignition is turned off.

Unlocking the Theft-Deterrent Feature After a Power Loss

Enter your secret code as follows; pause no more than 15 seconds between steps:

1. Turn the ignition on. LOC will appear on the display.
2. Press MN and 000 will appear on the display.
3. Press MN again to make the last two digits agree with your code.
4. Press HR to make the first one or two digits agree with your code.
5. Press AM-FM after you have confirmed that the code matches the secret code you have written down. The display will show SEC, indicating the radio is now operable and secure.

If you enter the wrong code eight times, INOP will appear on the display. You will have to wait an hour with the ignition on before you can try again. When you try again, you will only have three chances to enter the correct code before INOP appears.

If you lose or forget your code, contact your dealer.

Disabling the Theft-Deterrent Feature

Enter your secret code as follows; pause no more than 15 seconds between steps:

1. Turn the ignition to ACCESSORY or RUN.
2. Turn the radio off.
3. Press the 1 and 4 buttons together. Hold them down until SEC shows on the display.
4. Press MN and 000 will appear on the display.
5. Press MN again to make the last two digits agree with your code.
6. Press HR to make the first one or two digits agree with your code.
7. Press AM-FM after you have confirmed that the code matches the secret code you have written down. The display will show ---, indicating that the radio is no longer secured.

If the code entered is incorrect, SEC will appear on the display. The radio will remain secured until the correct code is entered.

When battery power is removed and later applied to a secured radio, the radio won't turn on and LOC will appear on the display.

To unlock a secured radio, see “Unlocking the Theft-Deterrent Feature After a Power Loss” earlier in this section.

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:

- 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 Delco 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 CLN to indicate that you have used your tape player for 50 hours without resetting the tape clean timer. If this message appears on the display, your cassette tape player needs to be cleaned. It will still play tapes, but you should clean it as soon as possible to prevent damage to your tapes and player. If you notice a reduction in sound quality, try a known good cassette to see if it is the tape or the tape player at fault. If this other cassette has no improvement in sound quality, clean the tape player.

The recommended cleaning method for your cassette tape player is the use of a scrubbing action, non-abrasive cleaning cassette with pads which scrub the tape head as the hubs of the cleaner cassette turn. The recommended cleaning cassette is available through your dealership (GM Part No. 12344789).

When using a scrubbing action, non-abrasive cleaning cassette, it is normal for the cassette to eject because your unit is equipped with a cut tape detection feature and a cleaning cassette may appear as a broken tape. To prevent the cleaning cassette from being ejected, use the following steps.

If your vehicle is equipped with the AM-FM Stereo with Cassette Tape Player:

1. Turn the ignition to RUN or ACCESSORY.
2. Turn the radio on.
3. Insert the scrubbing action cleaning cassette.
4. Within five seconds, press and hold the REV and FWD buttons at the same time for three seconds. The tape symbol on the display will flash, showing that the cut tape detection feature is no longer active.
5. Eject the cleaning cassette after the manufacturer's recommended cleaning time.

If your vehicle is equipped with the AM-FM Stereo with Cassette Tape Player and Automatic Tone Control:

1. Turn the ignition to RUN or ACCESSORY.
2. Turn the radio off.

3. Press and hold the TAPE AUX 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 EJECT for five seconds to reset the CLN 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 signal surface when handling discs. Pick up discs by grasping the outer edges or the edge of the hole and the outer edge.

Care of Your Compact Disc Player

The use of CD lens cleaner discs is not advised, due to the risk of contaminating the lens of the CD optics with lubricants internal to the CD mechanism.

Fixed Mast Antenna

The fixed mast antenna can withstand most car washes without being damaged. If the mast should ever become slightly bent, you can straighten it out by hand. If the mast is badly bent, as it might be by vandals, you should replace it.

Check every once in a while to be sure the mast is still tightened to the fender.

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.

| | | | |
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| 4-3 | Drunken Driving | 4-20 | Freeway Driving |
| 4-6 | Control of a Vehicle | 4-21 | Before Leaving on a Long Trip |
| 4-6 | Braking | 4-22 | Highway Hypnosis |
| 4-9 | Steering | 4-22 | Hill and Mountain Roads |
| 4-11 | Off-Road Recovery | 4-23 | Winter Driving |
| 4-12 | Passing | 4-27 | Recreational Vehicle Towing |
| 4-13 | Loss of Control | 4-28 | Loading Your Vehicle |
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Defensive Driving

The best advice anyone can give about driving is:
Drive defensively.

Please start with a very important safety device in your vehicle: Buckle up. (See “Safety Belts” in the Index.)

Defensive driving really means “be ready for anything.” On city streets, rural roads or freeways, it means “always expect the unexpected.”

Assume that pedestrians or other drivers are going to be careless and make mistakes. Anticipate what they might do. Be ready for their mistakes.

Rear-end collisions are about the most preventable of accidents. Yet they are common. Allow enough following distance. It’s the best defensive driving maneuver, in both city and rural driving. You never know when the vehicle in front of you is going to brake or turn suddenly.

Defensive driving requires that a driver concentrate on the driving task. Anything that distracts from the driving task -- such as concentrating on a cellular telephone call, reading, or reaching for something on the floor -- makes proper defensive driving more difficult and can even cause a collision, with resulting injury. Ask a passenger to help do things like this, or pull off the road in a safe place to do them yourself. These simple defensive driving techniques could save your life.

Drunken Driving

Death and injury associated with drinking and driving is a national tragedy. It's the number one contributor to the highway death toll, claiming thousands of victims every year.

Alcohol affects four things that anyone needs to drive a vehicle:

- Judgment
- Muscular Coordination
- Vision
- Attentiveness.

Police records show that almost half of all motor vehicle-related deaths involve alcohol. In most cases, these deaths are the result of someone who was drinking and driving. In recent years, over 17,000 annual motor vehicle-related deaths have been associated with the use of alcohol, with more than 300,000 people injured.

Many adults -- by some estimates, nearly half the adult population -- choose never to drink alcohol, so they never drive after drinking. For persons under 21, it's against the law in every U.S. state to drink alcohol. There are good medical, psychological and developmental reasons for these laws.

The obvious way to solve the leading highway safety problem is for people never to drink alcohol and then drive. But what if people do? How much is "too much" if the driver plans to drive? It's a lot less than many might think. Although it depends on each person and situation, here is some general information on the problem.

The Blood Alcohol Concentration (BAC) of someone who is drinking depends upon four things:

- The amount of alcohol consumed
- The drinker's body weight
- The amount of food that is consumed before and during drinking
- The length of time it has taken the drinker to consume the alcohol.

According to the American Medical Association, a 180-lb. (82 kg) person who drinks three 12-ounce (355 ml) bottles of beer in an hour will end up with a BAC of about 0.06 percent. The person would reach the same BAC by drinking three 4-ounce (120 ml) glasses of wine or three mixed drinks if each had 1-1/2 ounces (45 ml) of a liquor like whiskey, gin or vodka.



It's the amount of alcohol that counts. For example, if the same person drank three double martinis (3 ounces or 90 ml of liquor each) within an hour, the person's BAC would be close to 0.12 percent. A person who consumes food just before or during drinking will have a somewhat lower BAC level.

There is a gender difference, too. Women generally have a lower relative percentage of body water than men.

Since alcohol is carried in body water, this means that a woman generally will reach a higher BAC level than a man of her same body weight when each has the same number of drinks.

The law in many U.S. states sets the legal limit at a BAC of 0.10 percent. In a growing number of U.S. states, and throughout Canada, the limit is 0.08 percent. In some other countries, it's even lower. The BAC limit for all commercial drivers in the United States is 0.04 percent.

The BAC will be over 0.10 percent after three to six drinks (in one hour). Of course, as we've seen, it depends on how much alcohol is in the drinks, and how quickly the person drinks them.

But the ability to drive is affected well below a BAC of 0.10 percent. Research shows that the driving skills of many people are impaired at a BAC approaching 0.05 percent, and that the effects are worse at night. All drivers are impaired at BAC levels above 0.05 percent. Statistics show that the chance of being in a collision increases sharply for drivers who have a BAC of 0.05 percent or above. A driver with a BAC level of 0.06 percent has doubled his or her chance of having a collision. At a BAC level of 0.10 percent, the chance of this driver having a collision is 12 times greater; at a level of 0.15 percent, the chance is 25 times greater!

The body takes about an hour to rid itself of the alcohol in one drink. No amount of coffee or number of cold showers will speed that up. "I'll be careful" isn't the right answer. What if there's an emergency, a need to take sudden action, as when a child darts into the street? A person with even a moderate BAC might not be able to react quickly enough to avoid the collision.

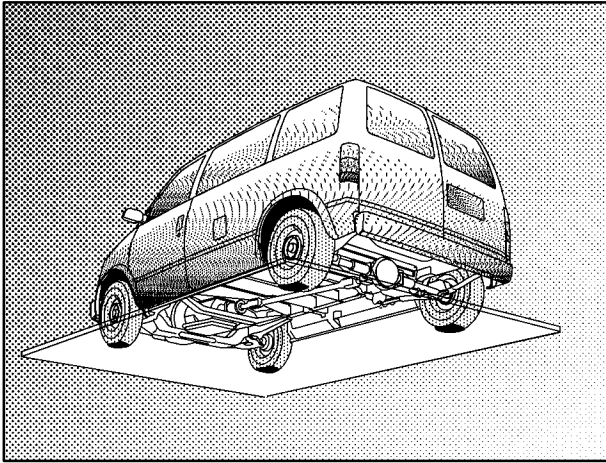
There's something else about drinking and driving that many people don't know. Medical research shows that alcohol in a person's system can make crash injuries worse, especially injuries to the brain, spinal cord or heart. This means that when anyone who has been drinking -- driver or passenger -- is in a crash, that person's chance of being killed or permanently disabled is higher than if the person had not been drinking.

 **CAUTION:**

Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness and judgment can be affected by even a small amount of alcohol. You can have a serious -- or even fatal -- collision if you drive after drinking. Please don't drink and drive or ride with a driver who has been drinking. Ride home in a cab; or if you're with a group, designate a driver who will not drink.

Control of a Vehicle

You have three systems that make your vehicle go where you want it to go. They are the brakes, the steering and the accelerator. All three systems have to do their work at the places where the tires meet the road.



Sometimes, as when you're driving on snow or ice, it's easy to ask more of those control systems than the tires and road can provide. That means you can lose control of your vehicle.

Braking

Braking action involves *perception time* and *reaction time*.

First, you have to decide to push on the brake pedal. That's *perception time*. Then you have to bring up your foot and do it. That's *reaction time*.

Average *reaction time* is about $3/4$ 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 $3/4$ of a second, a vehicle moving at 60 mph (100 km/h) travels 66 feet (20 m). That could be a lot of distance in an emergency, so keeping enough space between your vehicle and others is important.

And, of course, actual stopping distances vary greatly with the surface of the road (whether it's pavement or gravel); the condition of the road (wet, dry, icy); tire tread; the condition of your brakes; the weight of the vehicle and the amount of brake force applied.

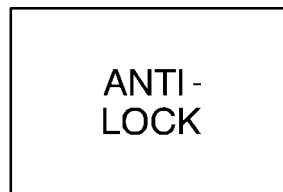
Avoid needless heavy braking. Some people drive in spurts -- heavy acceleration followed by heavy braking -- rather than keeping pace with traffic. This is a mistake. Your brakes may not have time to cool between hard stops. Your brakes will wear out much faster if you do a lot of heavy braking. If you keep pace with the traffic and allow realistic following distances, you will eliminate a lot of unnecessary braking. That means better braking and longer brake life.

If your engine ever stops while you're driving, brake normally but don't pump your brakes. If you do, the pedal may get harder to push down. If your engine stops, you will still have some power brake assist. But you will use it when you brake. Once the power assist is used up, it may take longer to stop and the brake pedal will be harder to push.

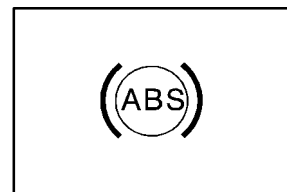
Anti-Lock Brakes (ABS)

Your vehicle has anti-lock brakes (ABS). ABS is an advanced electronic braking system that will help prevent a braking skid.

When you start your engine and begin to drive away, your anti-lock brake system will check itself. You may hear a momentary motor or clicking noise while this test is going on. 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.



Here's how anti-lock works. Let's say the road is wet. You're driving safely. Suddenly an animal jumps out in front of you.

You slam on the brakes. Here's what happens with ABS.

A computer senses that wheels are slowing down. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each front wheel and at both rear wheels.

The anti-lock system can change the brake pressure faster than any driver could. The computer is programmed to make the most of available tire and road conditions.



You can steer around the obstacle while braking hard.

As you brake, your computer keeps receiving updates on wheel speed and controls braking pressure accordingly.

Remember: Anti-lock doesn't change the time you need to get your foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, you won't have time to apply your brakes if that vehicle suddenly slows or stops. Always leave enough room up ahead to stop, even though you have anti-lock brakes.

Using Anti-Lock

Don't pump the brakes. Just hold the brake pedal down firmly and let anti-lock work for you. You may feel the brakes vibrate, or you may 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.

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.

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.

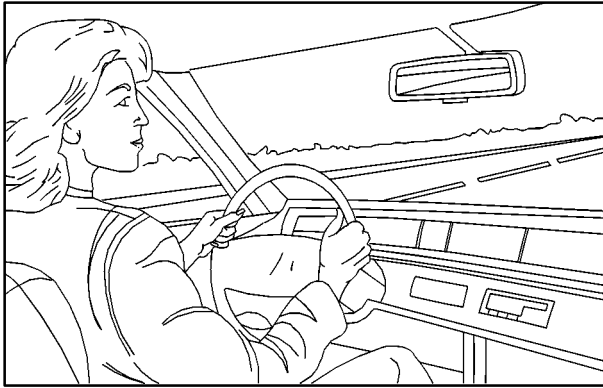
If you need to reduce your speed as you approach a curve, do it before you enter the curve, while your front wheels are straight ahead.

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.

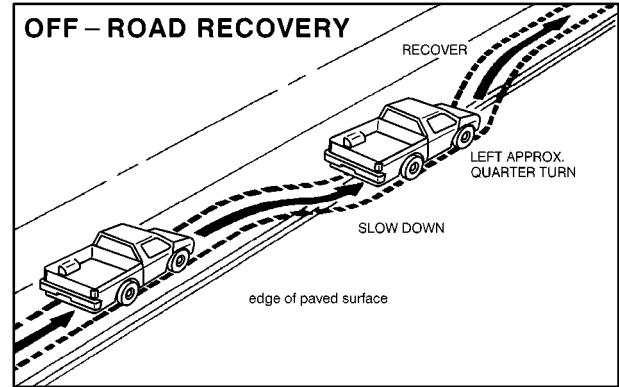


An emergency like this requires close attention and a quick decision. If you are holding the steering wheel at the recommended 9 and 3 o'clock positions, you can turn it a full 180 degrees very quickly without removing either hand. But you have to act fast, steer quickly, and just as quickly straighten 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 and an acceleration skid are best handled by easing your foot off the accelerator pedal.

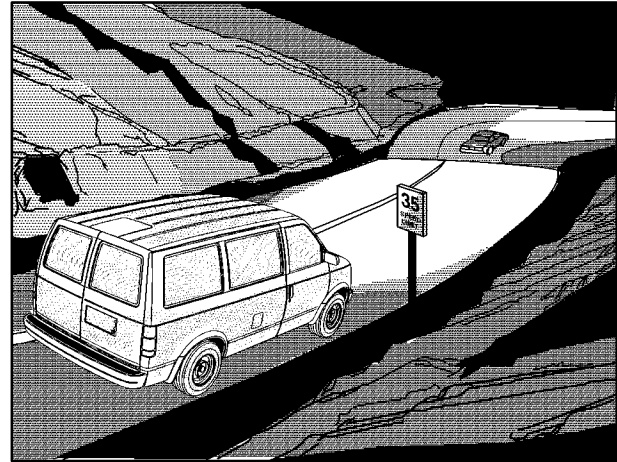
If your vehicle starts to slide, ease your foot off the accelerator pedal and quickly steer the way you want the vehicle to go. If you start steering quickly enough, your vehicle may straighten out. Always be ready for a second skid if it occurs.

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.

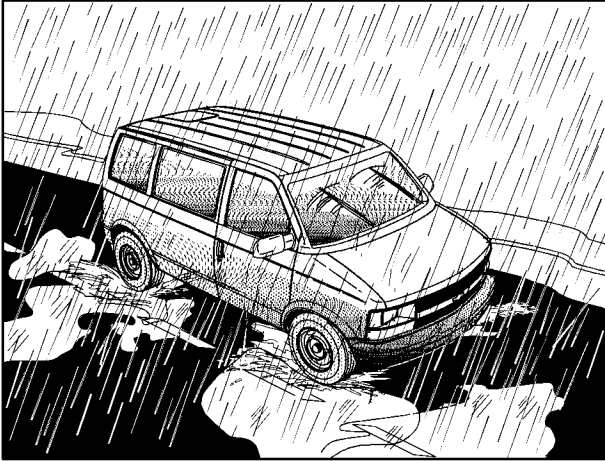
What you do in the daytime can also affect your night vision. For example, if you spend the day in bright sunshine you are wise to wear sunglasses. Your eyes will have less trouble adjusting to night. But if you're driving, don't wear sunglasses at night. They may cut down on glare from headlamps, but 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.

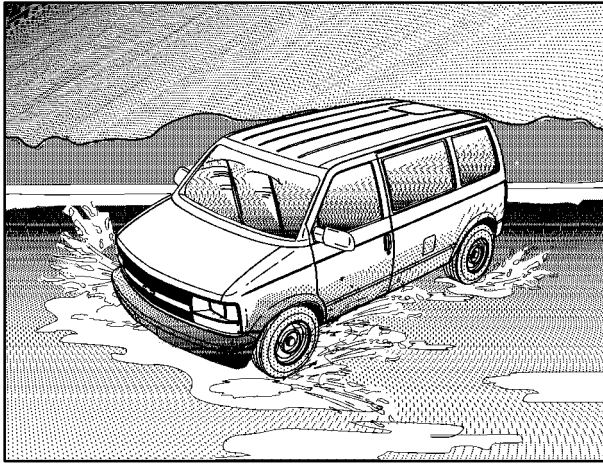
Driving in Rain and on Wet Roads



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 GM 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 transmission. 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 transmission, 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:

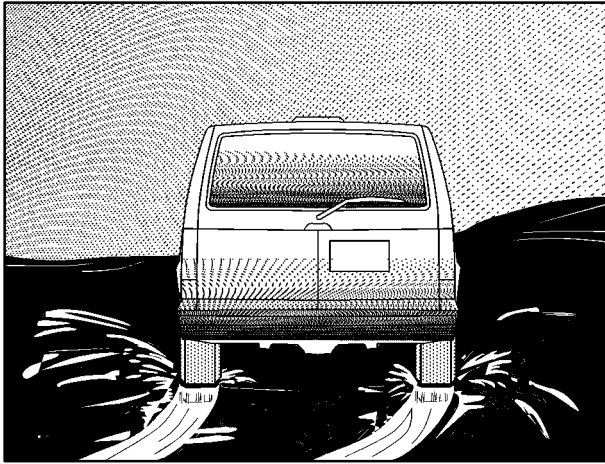
- Have your vehicle in good shape for winter.
- You may want to put winter emergency supplies in your vehicle.

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.

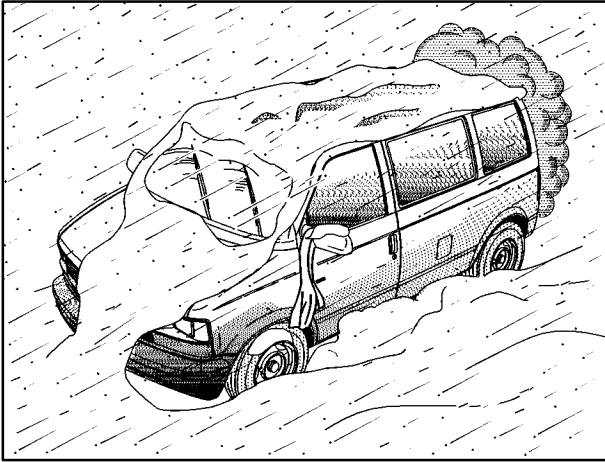
Whatever the condition -- smooth ice, packed, blowing or loose snow -- drive with caution.

Accelerate gently. Try not to break the fragile 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.

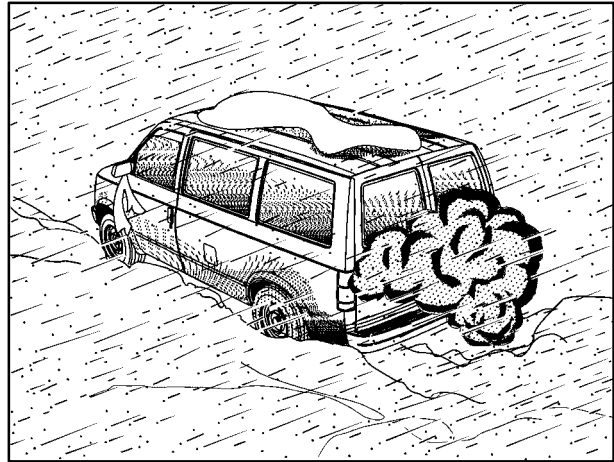
If You're Caught in a Blizzard



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

Your vehicle was not designed to be towed with all four wheels on the ground. If your vehicle must be towed, see "Towing Your Vehicle" in the Index.

NOTICE:

Towing your vehicle with all four wheels on the ground will damage drivetrain components.

Loading Your Vehicle

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.
- Below that: A large horizontal box.
- Below that: A horizontal box.
- Bottom left: "MODEL:" followed by a box.
- Bottom left: "TIRE" followed by a box.
- Bottom left: "RIM" followed by a box.
- Bottom left: "SP" followed by a box.
- Bottom center: "COLD TIRE PRESSURE" followed by three stacked boxes.
- Bottom right: "SEE OWNER'S MANUAL FOR ADDITIONAL INFORMATION." followed by a box.

A large, bold, black "EXAMPLE" watermark is diagonally placed across the center of the label.

The Certification/Tire label in your vehicle will look similar to this example.

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, cargo and tongue weight, if pulling a trailer.

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 center line.

Never exceed the GVWR for your vehicle, or GAWR for either the front or rear axle.

And, if you do have a heavy load, you should spread it out.

 **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.

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.

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:**

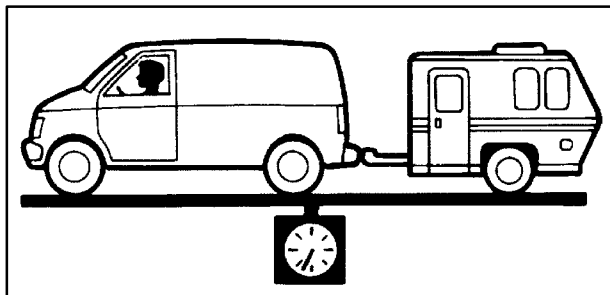
Things you put inside your vehicle can strike and injure people in a sudden stop or turn, or in a crash.

- **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.**

Payload

The Payload Capacity is shown on the Certification/Tire label. This is the maximum load capacity that your vehicle can carry. Be sure to include the weight of the people inside as part of your load. If you added any accessories or equipment after your vehicle left the factory, remember to subtract the weight of these things from the payload. Your dealer can help you with this.

Trailer Package



If your vehicle is equipped with the trailering package, there is also a load rating which includes the weight of the vehicle and the trailer it tows. This rating is called the Gross Combination Weight Rating (GCWR).

When you weigh your trailer, be sure to include the weight of everything you put in it. And, remember to figure the weight of the people inside the vehicle as part of your load.

Your dealer can help you determine your GCWR.

Add-On Equipment

When you carry removable items, you may need to put a limit on how many people you carry inside your vehicle. Be sure to weigh your vehicle before you buy and install the new equipment.

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.

Your vehicle may be able to 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.

If yours was built with trailering options, as many are, it's ready for heavier trailers. But trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability and fuel economy. Successful, safe trailering takes correct equipment, and it has to be used properly.

That's the reason for this part. In it are many time-tested, important trailering tips and safety rules. Many of these are important for your safety and that of your passengers. So please read this section carefully before you pull a trailer.

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 should 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 transmission. See "Tow/Haul Mode" in the Index.

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.

Tow/Haul Mode

The Tow/Haul Mode is a feature that assists when pulling a heavy trailer. The purpose of the Tow/Haul Mode is:

- Reduce the frequency of shifts when pulling a heavy trailer.
- Provide the same shift feel when pulling a heavy trailer as when the vehicle is unloaded.
- Reduce the need to change throttle position when pulling a heavy trailer.

This feature is turned on or off by pressing a button on the floor console. When the feature is on, a light on the instrument panel will illuminate to indicate that the Tow/Haul Mode has been selected.

See "Tow/Haul Mode Light" in the Index. The Tow/Haul Mode is automatically turned off each time the vehicle is started.

The Tow/Haul Mode is most effective when the vehicle and trailer combined weight is at least 75% of the Gross Vehicle Weight Rating (GVWR) and the maximum trailer weight rating for the vehicle. See “Gross Vehicle Weight Rating” and “Trailer Weight” in the Index.

The Tow/Haul Mode for hauling a heavy trailer is most useful under the following conditions

- When driving through hilly terrain at speeds below 55 mph (88 km/h).
- When driving in low speed or stop and go traffic below 55 mph (88 km/h).
- When driving in parking lots.

Use the Tow/Haul Mode instead of the previous recommendation to shift to THIRD (3) gear to improve fuel economy at highway speeds and shift performance at lower speeds. Operating in the Tow/Haul Mode when not pulling a heavy trailer will not cause damage to the vehicle, but you may experience reduced fuel economy and undesirable performance from the engine and transmission. The Tow/Haul Mode should be used only when pulling a heavy trailer.

Weight of the Trailer

How heavy can a trailer safely be?

It depends on how you plan to use your rig. For example, speed, altitude, road grades, outside temperature and how much your vehicle is used to pull a trailer are all important. And, it can also depend on any special equipment that you have on your vehicle.

The following chart shows how much your trailer can weigh, based upon your vehicle model and options.

| Vehicle | Axle Ratio | Max. Trailer Wt. |
|-----------------|------------|-----------------------|
| Two-Wheel Drive | 3.23 | 5,100 lbs. (2 315 kg) |
| | 3.42 | 5,600 lbs. (2 542 kg) |
| | 3.73 | 6,000 lbs. (2 724 kg) |
| All-Wheel Drive | 3.42 | 5,300 lbs. (2 406 kg) |
| | 3.73 | 5,800 lbs. (2 633 kg) |

Maximum trailer weight is calculated assuming the driver and one passenger are in the tow vehicle and it has all the required trailering equipment. The weight of additional optional equipment, passengers and cargo in the tow vehicle must be subtracted from the maximum trailer weight.

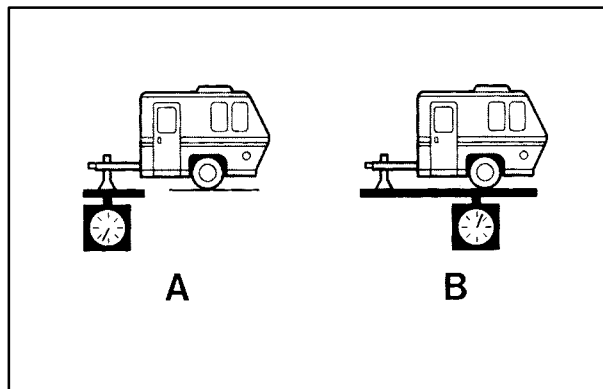
You can ask your dealer for our trailering information or advice, or you can write us at the address listed in your Warranty and Owner Assistance Information Booklet.

In Canada, write to:

General Motors of Canada Limited
Customer Communication Centre
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Weight of the Trailer Tongue

The tongue load (A) of any trailer is an important weight to measure because it affects the total or gross weight of your vehicle. The Gross Vehicle Weight (GVW) includes the curb weight of the vehicle, any cargo you may carry in it, and the people who will be riding in the vehicle. And if you 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 hitch, the trailer tongue (A) should weigh 10 percent of the total loaded trailer weight (B). If you’re using a weight-distributing hitch, the trailer tongue (A) should weigh 12 percent of the total loaded trailer weight (B).

After you’ve loaded your trailer, weigh the trailer and then the tongue, separately, to see if the weights are proper. If they aren’t, you may be able to get them right simply by moving some items around in the trailer.

Total Weight on Your Vehicle's Tires

Be sure your vehicle's tires are inflated to the upper limit for cold tires. You'll find these numbers on the Certification 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-distributing hitch and sway control of the proper size. This equipment is very important for proper vehicle loading and good handling when you're driving.

- Will you have to make any holes in the body of your vehicle when you install a trailer hitch?

If you do, then be sure to seal the holes later when you remove the hitch. If you don't seal them, deadly carbon monoxide (CO) from your exhaust can get into your vehicle (see "Carbon Monoxide" in the Index). Dirt and water can, too.

Safety Chains

You should always attach chains between your vehicle and your trailer. Cross the safety chains under the tongue of the trailer 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.

Your trailer brake system can tap into your vehicle's hydraulic brake system, except:

- Don't tap into your vehicle's brake system if the trailer's brake system will use more than 0.02 cubic inch (0.3 cc) of fluid from your vehicle's master cylinder. If it does, both braking systems won't work well. You could even lose your brakes.
- Will the trailer parts take 3,000 psi (20 650 kPa) of pressure? If not, the trailer brake system must not be used with your vehicle.
- If everything checks out this far, then make the brake fluid tap at the port on the master cylinder that sends fluid to the rear brakes. But don't use copper tubing for this. If you do, it will bend and finally break off. Use steel brake tubing.

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 MAX A/C 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 (included in the optional trailering package).

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.

When towing at high altitude on steep uphill grades, consider the following: Engine coolant will boil at a lower temperature than at normal altitudes. If you turn your engine off immediately after towing at high altitude on steep uphill grades, your vehicle may show signs similar to engine overheating. To avoid this, let the engine run while parked (preferably on level ground) with the automatic transmission in PARK (P) for a few minutes before turning the engine off. If you do get the overheat warning, see "Engine Overheating" in the Index.

Parking on Hills



CAUTION:

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

1. Apply your regular brakes, but 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 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 transmission fluid (don't overfill), engine oil, axle lubricant, belt, 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.

Trailer Wiring Harness

If you have the optional trailering package, your vehicle will have an eight-wire harness, including the center high-mounted stoplamp battery feed wire. The harness is stored on the passenger's side of the vehicle near the rear wheel well. This harness has a 30 amp battery feed wire and no connector, and should be wired by a qualified electrical technician. After choosing an aftermarket trailer mating connector pair, have the technician attach one connector to the eight-wire trailer harness and the other connector to the wiring harness on the trailer. Be sure the wiring harness on the trailer is taped or strapped to the trailer's frame rail and leave it loose enough so the wiring doesn't bend or break, but not so loose that it drags on the ground. The eight-wire harness must be routed out of your vehicle between the rear door and the floor, with enough of the harness left on both sides so that the trailer or the body won't pull it. If you do not have the optional trailering package, your vehicle will still have a trailering harness. The harness is located near the passenger's side rear wheel well. It consists of six wires that may be used by after-market trailer hitch installers.

The technician can use the following color code chart when connecting the wiring harness to your trailer.

- Brown: Rear lamps.
- Yellow: Left stoplamp and turn signal.
- Dark Green: Right stoplamp and turn signal.
- White (Heavy Gauge): Ground.
- Light Green: Back-up lamps.
- White (Light Gauge): Center High-Mounted Stoplamp.
- Blue: Auxiliary circuit (eight-wire harness only).
- Orange: Fused auxiliary (eight-wire harness only).

Store the harness in its original place. Wrap the harness together and tie it neatly so it won't be damaged.

Section 5 Problems on the Road

Here you'll find what to do about some problems that can occur on the road.

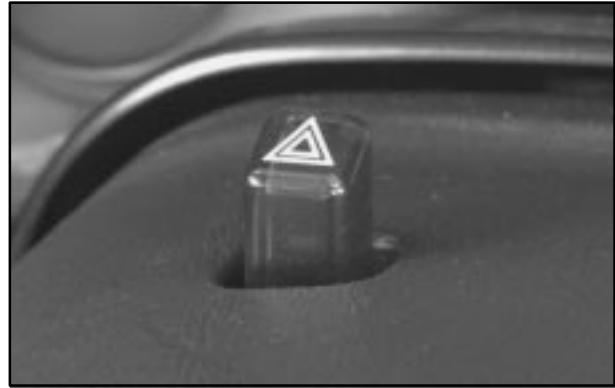
5-2 Hazard Warning Flashers
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Hazard Warning Flashers



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.

Press the button down to make your front and rear turn signal lamps flash on and off. Your hazard warning flashers work no matter what position your key is in, and even if the key isn't in.

To turn off the flashers, press the button down again.

When the hazard warning flashers are on, your turn signals won't work. They also won't flash while you're braking.

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. But please follow the numbered steps 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 transmission in PARK (P).

3. Turn off the ignition on both vehicles. Unplug unnecessary accessories plugged into the cigarette lighter or accessory power outlets. Turn off all lamps that aren't needed as well as radios. This will avoid sparks and help save both batteries. In addition, it could save your radio!

NOTICE:

If you leave your radio on, it could be badly damaged. The repairs wouldn't be covered by your warranty.

4. Open the hoods and locate the batteries. Find the positive (+) and negative (-) terminals on each battery.

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.

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 (+) and negative (-) will go to a jump starting stud. Don't connect positive (+) to negative (-) or you'll get a short that would damage the battery and maybe other parts, too.

⚠ CAUTION:

Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running.



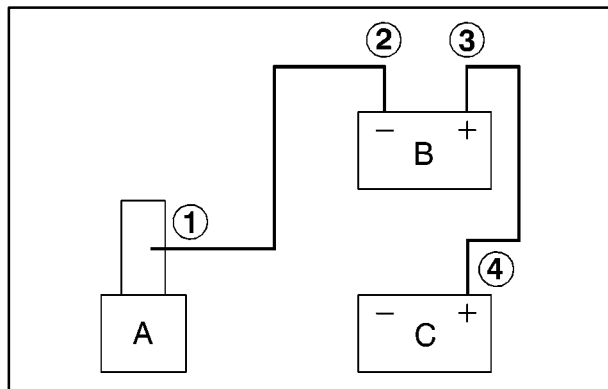
6. Connect the red positive (+) cable to the positive (+) terminal of the vehicle with the dead battery.



7. Don't let the other end touch metal. Connect it to the positive (+) terminal of the good battery.



8. Now connect the black negative (-) cable to the good battery's negative (-) terminal. Don't let the other end touch anything until the next step.



9. The other end of the negative (-) cable does not go to the dead battery. It goes to a negative jump starting stud located near the battery.
The electrical connection is just as good there, but 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 with the dead battery. If it won't start after a few tries, it probably needs service.
12. Remove the cables in reverse order to prevent electrical shorting. Take care that they don't touch each other or any other metal.

- A. Negative Jump Starting Stud
- B. Good Battery
- C. Dead Battery

Towing Your Vehicle

CAUTION:

To help avoid serious personal injury to you or others:

- **Never let passengers ride in a vehicle that is being towed.**
- **Never tow faster than safe or posted speeds.**
- **Never tow with damaged parts not fully secured.**
- **Never get under your vehicle after it has been lifted by the tow truck.**
- **Always secure the vehicle on each side with separate safety chains when towing it.**
- **Use only the correct hooks.**

NOTICE:

Use the proper towing equipment to avoid damage to the bumper, fascia or fog lamp areas of the vehicle.

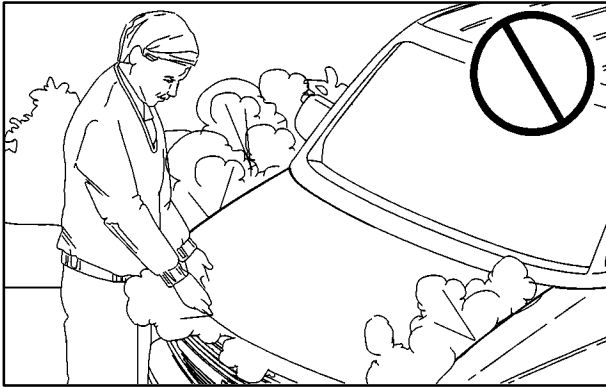
With current trends in automotive styles and design, it is essential that the correct towing equipment is used to tow a vehicle. Your vehicle can be towed with wheel-lift or car-carrier equipment. When using wheel-lift equipment on a vehicle with All-Wheel-Drive, you must use a dolly under the rear wheels when towing from the front and under the front wheels when towing from the rear. On Rear-Wheel Drive vehicles observe the following tow limits of 35 mph (56 km/h) for 50 miles (80 km).

Consult your dealer or a professional towing service if you need to have your vehicle towed. See “Roadside Assistance” in the Index.

Engine Overheating

You will find an engine coolant temperature gage on your vehicle’s instrument panel. See “Gages” in the Index.

If Steam Is Coming From Your Engine



⚠ CAUTION:

Steam from an overheated engine can burn you badly, even if you just open the hood. Stay away from the engine if you see or hear steam coming from it. Just turn it off and get everyone away from the vehicle until it cools down. Wait until there is no sign of steam or coolant before you open the hood.

If you keep driving when your engine is overheated, the liquids in it can catch fire. You or others could be badly burned. Stop your engine if it overheats, and get out of the vehicle until the engine is cool.

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.

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. See “Driving on Grades” in the Index.

If you get the overheat warning with no sign of steam, try this for a minute or so:

1. If you have an air conditioner and it’s 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 -- DRIVE (D) for automatic transmissions.

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.

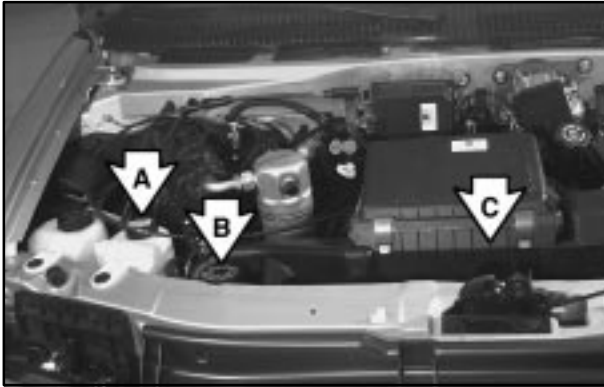
If the warning continues, pull over, stop, and park your vehicle right away.

If there’s still no sign of steam, push down the accelerator until the engine speed is about twice as fast as normal idle speed for at least 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.

You may decide not to lift the hood but to get service help right away.

Cooling System

When you decide it's safe to lift the hood, here's what you'll see:



- A. Coolant Recovery Tank
- B. Radiator Pressure Cap
- C. Engine Fan

If the coolant inside the coolant recovery tank is boiling, don't do anything else until it cools down.



When the engine is cold, the coolant level should be at the ADD mark. If it isn't, you may have a leak in the radiator hoses, heater hoses, radiator, water pump or somewhere else in the cooling system.



CAUTION:

Heater and radiator hoses, and other engine parts, can be very hot. Don't touch them. If you do, you can be burned.

Don't run the engine if there is a leak. If you run the engine, it could lose all coolant. That could cause an engine fire, and you could be burned. Get any leak fixed before you drive the vehicle.

NOTICE:

Engine damage from running your engine without coolant isn't covered by your warranty.

NOTICE:

When adding coolant, it is important that you use only DEX-COOL[®] (silicate-free) coolant. If coolant other than DEX-COOL is added to the system, premature engine, heater core or radiator corrosion may result. In addition, the engine coolant will require change sooner -- at 30,000 miles (50 000 km) or 24 months, whichever occurs first. Damage caused by the use of coolant other than DEX-COOL[®] is not covered by your new vehicle warranty.

If there seems to be no leak, start the engine again. See if the engine cooling fan speed increases when idle speed is doubled by pushing the accelerator pedal down. If it doesn't, your vehicle needs service. Turn off the engine.

How to Add Coolant to the Coolant Recovery Tank

If you haven't found a problem yet, but the coolant level isn't at the ADD 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 like alcohol, can boil before the proper coolant mixture will. Your vehicle's coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, your engine could get too hot but you wouldn't get the overheat warning. Your engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant.

NOTICE:

In cold weather, water can freeze and crack the engine, radiator, heater core and other parts. 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 the ADD 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 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 radiator pressure cap to cool if you ever have to turn the pressure cap.



How to Add Coolant to the Radiator



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.



3. 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.)



4. Then fill the coolant recovery tank to the ADD mark.
5. Put the cap back on the coolant recovery tank, but leave the radiator pressure cap off.



6. Start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fan.
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.

Engine Fan Noise

This vehicle has a clutched engine cooling fan. When the clutch is engaged, the fan spins faster to provide more air to cool the engine. In most everyday driving conditions, the clutch is not fully engaged. This improves fuel economy and reduces fan noise. Under heavy vehicle loading, trailer towing and/or high outside temperatures, the fan speed increases when the clutch engages. So you may hear an increase in fan noise. This is normal and should not be mistaken as the transmission slipping or making extra shifts. It is merely the cooling system functioning properly. The fan will slow down when additional cooling is not required and the clutch disengages.

You may also hear this fan noise when you start the engine. It will go away as the fan clutch disengages.

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.

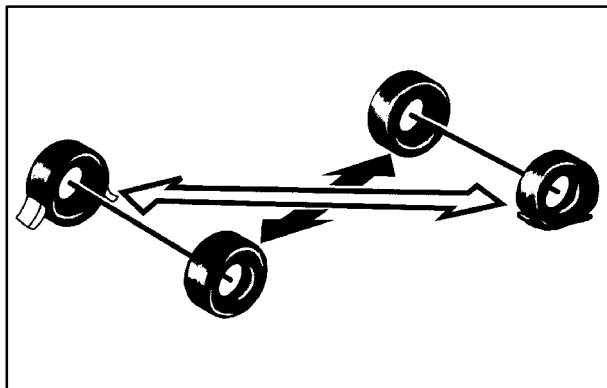
Changing a Flat Tire

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.
4. Put the wheel 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 jacking equipment you'll need is stored by your vehicle's rear doors, along the passenger's side wall.

Remove your jack cover by pulling it away from the side wall and down to release the tabs securing the top of the cover.



Remove the wheel blocks by turning the top nut counterclockwise. Remove the nut and washer, then pull the wheel blocks off the bolt. Push down on the bolt and remove the hooked end from the slot. Slide the jack toward the front of the vehicle and lift it from the mounting. Remove the extension and the ratchet from the pouch.



Your spare tire is stored underneath the rear of your vehicle. You will use the ratchet and extension to lower the spare tire.



The ratchet has an UP side.



It also has a DOWN side.

Attach the ratchet, with the DOWN side facing you, to the extension. The extension has a socket end and a flat chisel end.

Put the flat end of the extension on an angle through the hole in the rear door frame, above the bumper. Be sure the flat end connects into the hoist shaft.



Turn the ratchet counterclockwise to lower the spare tire to the ground. Keep turning the ratchet until the spare tire can be pulled out from under the vehicle.



When the tire has been lowered, tilt the retainer plate at the end of the cable and pull it through the wheel opening.

Pull the tire out from under the vehicle.

NOTICE:

To help avoid vehicle damage, do not drive the vehicle before cable is restored.



The tools you'll be using include the jack (A), wheel blocks (B), extension (C) and ratchet (D).

Removing the Wheel Covers

You will have to take off hub caps or wheel nut caps to reach your wheel nuts.



Styled Steel Wheel Shown

If you have a standard steel wheel, carefully pry along the edge of the hub cap until it comes off. Be careful, the rim edges may be sharp. Don't try to remove the hub cap with your bare hands.

If you have the styled steel wheel or aluminum wheel with plastic nut caps, loosen the plastic nut caps with the ratchet and socket. Make sure the DOWN side faces you.

To remove the hub cap from the aluminum wheel without plastic nut caps, fit the flat end of the extension into the notch. Then, remove the center cap.

Removing the Flat Tire and Installing the Spare Tire



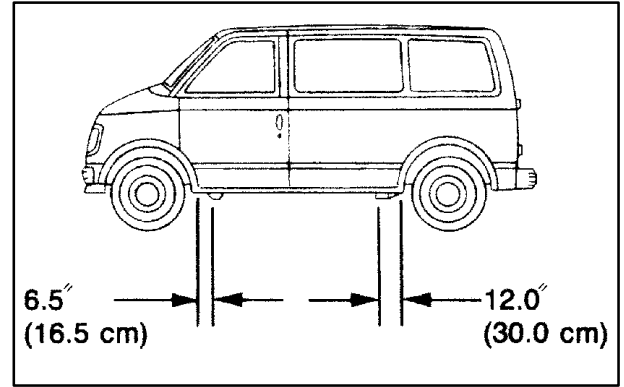
1. Before you start, block the front and rear of the tire farthest away from the one being changed. Then put your spare tire near the flat tire.



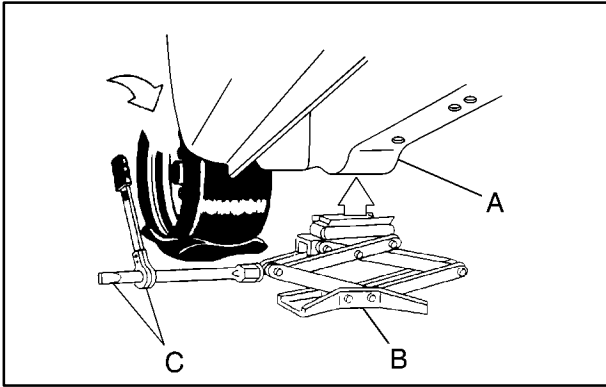
2. With the DOWN side facing you, use the ratchet and socket to loosen all the wheel nuts. Don't remove them yet.
3. The jack has a bolt on the end. Attach the socket end of the extension to the jack bolt.



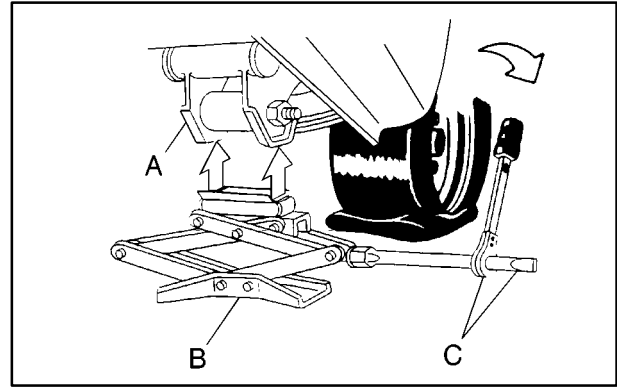
4. Attach the ratchet to the extension with the UP side facing you.
5. Turn the ratchet clockwise. That will raise the jack lift head a little.



6. Position the jack under the vehicle.



Front Position



Rear Position

⚠ CAUTION:

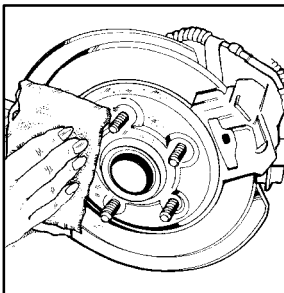
Getting under a vehicle when it is jacked up is dangerous. If the vehicle slips off the jack, you could be badly injured or killed. Never get under a vehicle when it is supported only by a jack.

⚠ 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.



7. Raise the vehicle by turning the ratchet clockwise. Make sure the UP mark faces you. Raise the vehicle far enough off the ground so there is enough room for the spare tire to fit.
8. Remove all the wheel nuts and take off the flat tire.



9. 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.

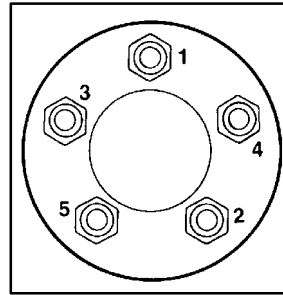
⚠ CAUTION:

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.

10. Put on the spare tire. Put the nuts on by hand. Make sure the cone-shaped end is toward the wheel. Tighten each nut by hand until the wheel is held against the hub. If a nut can't be turned by hand, use the extension and see your dealer as soon as possible.



11. Lower the vehicle by turning the ratchet counterclockwise. Lower the jack completely.



12. Tighten the wheel nuts firmly in a crisscross sequence as shown. Turn the ratchet clockwise with the UP mark facing you.

 **CAUTION:**

Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose and even come off. This could lead to an accident. Be sure to use the correct wheel nuts. If you have to replace them, be sure to get new GM original equipment wheel nuts.

Stop somewhere as soon as you can and have the nuts tightened with a torque wrench to 100 lb-ft (140 N·m).

NOTICE:

Improperly tightened wheel nuts can lead to brake pulsation and rotor damage. To avoid expensive brake repairs, evenly tighten the wheel nuts in the proper sequence and to the proper torque specification.

13. Remove the wheel blocks.

NOTICE:

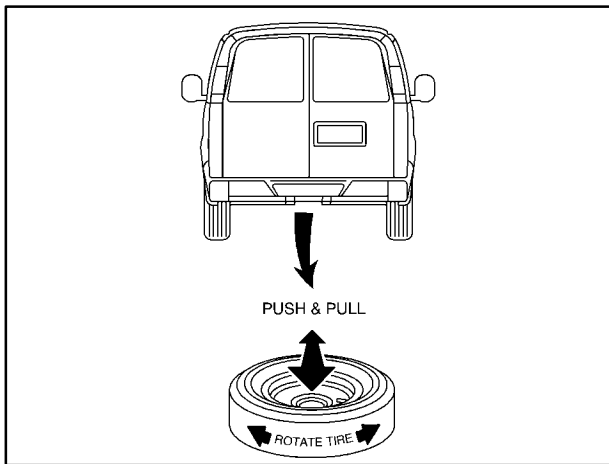
Wheel covers won't fit on your compact spare. If you try to put a wheel cover on your compact spare, you could damage the cover or the spare.

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.

1. Put the flat tire on the ground at the rear of the vehicle with the valve stem pointed down.
2. Tilt the retainer plate downward and through the wheel opening. Make sure it is fully seated across the underside of the wheel. Attach the ratchet, with the UP side facing you, to the extension.
3. Put the flat end of the extension on an angle through the hole in the rear door frame, above the bumper.
Keep turning the ratchet until you feel at least two “clicks” when the tire is up all the way.
The compact spare is for temporary use only. Replace the compact spare tire with a full-size tire as soon as you can. See “Compact Spare Tire” in the Index. See the storage instructions label to restore your compact spare properly.
4. Raise the tire fully against the underside of the vehicle. Continue turning the ratchet/wheel wrench until the tire is secure and the cable is tight. The spare tire hoist cannot be overtightened.



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.

5. Make sure the tire is stored securely. Push, pull, and then try to rotate or turn the tire. If the tire moves, use ratchet/wheel wrench to tighten the cable.

Return the jacking equipment to its proper location.

NOTICE:

When the compact spare is installed, don't take your vehicle through an automatic car wash with guide rails. The compact spare can get caught on the rails. That can damage the tire and wheel, and maybe other parts of your vehicle.

Don't use your compact spare on other vehicles.

And don't mix your compact spare tire or wheel with other wheels or tires. They won't fit. Keep your spare tire and its wheel together.

NOTICE:

Tire chains won't fit your compact spare. Using them can damage your vehicle and can damage the chains too. Don't use tire chains on your compact spare.

If You're Stuck: In Sand, Mud, Ice or Snow

In order to free your vehicle when it is stuck, you will need to spin the wheels, but you don't want to spin your wheels too fast. The method known as "rocking" can help you get out when you're stuck, but you must use caution.

CAUTION:

If you let your tires spin at high speed, they can explode, and you or others could be injured. And, the transmission 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 transmission back and forth, you can destroy your transmission.

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. 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 transmission 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

Use regular unleaded gasoline rated at 87 octane or higher. It is recommended that the gasoline meet specifications which have been developed by the American Automobile Manufacturers Association (AAMA) and endorsed by the Canadian Motor Vehicle Manufacturers Association for better vehicle performance and engine protection. Gasolines meeting the AAMA specification could provide improved driveability and emission control system performance compared to other gasolines.

Be sure the posted octane is at least 87. If the octane is less than 87, you may get a heavy knocking noise when you drive. If it's bad enough, it can damage your engine.

If you're using fuel rated at 87 octane or higher and you hear heavy knocking, your engine needs service. But don't worry if you hear a little pinging noise when you're accelerating or driving up a hill. That's normal, and you don't have to buy a higher octane fuel to get rid of pinging. It's the heavy, constant knock that means you have a problem.

If your vehicle is certified to meet California Emission Standards (indicated on the underhood emission control label), it is designed to operate on fuels that meet California specifications. If such fuels are not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. The malfunction indicator lamp on your instrument panel may turn on and/or your vehicle may fail a smog-check test. (See “Malfunction Indicator Lamp” in the Index.) If this occurs, return to your authorized GM dealer for diagnosis to determine the cause of failure. In the event it is determined that the cause of the condition is the type of fuels used, repairs may not be covered by your warranty.

Some gasolines that are not reformulated for low emissions may contain an octane-enhancing additive called methylcyclopentadienyl manganese tricarbonyl (MMT); ask your service station operator whether or not the fuel contains MMT. General Motors does not recommend the use of such gasolines. If fuels containing MMT are used, spark plug life may be reduced and your emission control system performance may be affected. The malfunction indicator lamp on your instrument panel may turn on. If this occurs, return to your authorized GM dealer for service.

To provide cleaner air, all gasolines in the United States are now required to contain additives that will help prevent deposits from forming in your engine and fuel system, allowing your emission control system to function properly. Therefore, you should not have to add anything to the fuel. In addition, gasolines containing oxygenates, such as ethers and ethanol, and reformulated gasolines may be available in your area to contribute to clean air. General Motors recommends that you use these gasolines, particularly if they comply with the specifications described earlier.

NOTICE:

Your vehicle was not designed for fuel that contains methanol. Don't use it. It can corrode metal parts in your fuel system and also damage plastic and rubber parts. That damage wouldn't be covered under your warranty.

Fuels in Foreign Countries

If you plan on driving in another country outside the United States or Canada, the proper fuel may be hard to find. Never use leaded gasoline or any other fuel not recommended in the previous text on fuel. Costly repairs caused by use of improper fuel wouldn't be covered by your warranty.

To check on fuel availability, ask an auto club, or contact a major oil company that does business in the country where you'll be driving.

You can also write us at the following address for advice. Just tell us where you're going and give your Vehicle Identification Number (VIN).

General Motors Overseas Distribution Corporation
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Filling Your Tank

CAUTION:

Gasoline vapor is highly flammable. It burns violently, and that can cause very bad injuries. Don't smoke if you're near gasoline or refueling your vehicle. Keep sparks, flames and smoking materials away from gasoline.



The fuel cap is located behind a hinged door on the driver's side of your vehicle.



While refueling, place the cap in the holder on the fuel filler door.

To remove the cap, turn it slowly to the left (counterclockwise). The cap has a spring in it; if you let go of the cap too soon, it will spring back to the right.

⚠ CAUTION:

If you get gasoline on yourself and then something ignites it, you could be badly burned. Gasoline can spray out on you if you open the fuel filler cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel filler cap slowly and wait for any “hiss” noise to stop. Then unscrew the cap all the way.

Be careful not to spill gasoline. Clean gasoline from painted surfaces as soon as possible. See “Cleaning the Outside of Your Vehicle” in the Index.

When you put the cap back on, turn it to the right (clockwise) until you hear a clicking sound. Make sure you fully install the cap. The diagnostic system can determine if the fuel cap has been left off or improperly installed. This would allow fuel to evaporate into the atmosphere. See “Malfunction Indicator Lamp” in the Index.

NOTICE:

If you need a new cap, be sure to get the right type. Your dealer can get one for you. If you get the wrong type, it may not fit properly. This may cause your malfunction indicator lamp to light and your fuel tank and emissions system may be damaged. See “Malfunction Indicator Lamp” in the Index.

Filling a Portable Fuel Container

CAUTION:

Never fill a portable fuel container while it is in your vehicle. Static electricity discharge from the container can ignite the gasoline vapor. You can be badly burned and your vehicle damaged if this occurs. To help avoid injury to you and others:

- **Dispense gasoline only into approved containers.**
- **Do not fill a container while it is inside a vehicle, in a vehicle’s trunk, pickup bed or on any surface other than the ground.**
- **Bring the fill nozzle in contact with the inside of the fill opening before operating the nozzle. Contact should be maintained until the filling is complete.**
- **Don’t smoke while pumping gasoline.**

Checking Things Under the Hood

CAUTION:

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, first pull the handle located inside the vehicle on the lower driver's side of the kick panel.



Then go to the front of the vehicle and release the secondary hood release.



Lift the hood, release the hood prop from its retainer and put the hood prop into the slot in the hood.

When you open the hood, this is what you will see:



- A. Windshield Washer Fluid Fill Location
- B. Coolant Fill Location
- C. Oil Dipstick Location
- D. Transmission Dipstick/Fill Location
- E. Engine Air Cleaner/Filter

- F. Engine Oil Fill Location
- G. Brake Master Cylinder Reservoir
- H. Power Steering Fluid Reservoir
- I. Battery

Before closing the hood, be sure all the filler caps are on properly. Then lift the hood to relieve pressure on the hood prop.



Remove the hood prop from the slot in the hood and return the prop to its retainer.

Then just pull the hood down and close it firmly.

Engine Oil

Checking Engine Oil

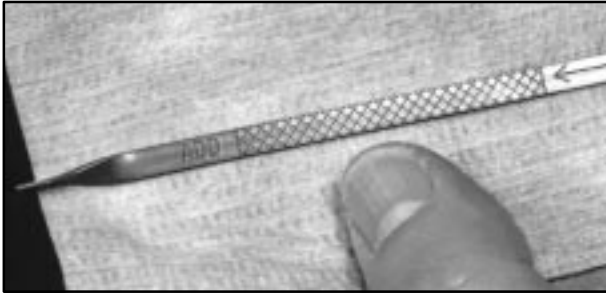
It's a good idea to check your engine oil every time you get fuel. In order to get an accurate reading, the oil must be warm and the vehicle must be on level ground.



The engine oil dipstick is a yellow ring and is located near the center of the engine compartment.

Turn off the engine and give the oil several minutes to drain back into the oil pan. If you don't, the oil dipstick might not show the actual level.

Pull out the dipstick and clean it with a paper towel or cloth, then push it back in all the way. Remove it again, keeping the tip down, and check the level.



When to Add Engine Oil

If the oil is at or below the ADD line, then you'll need to add at least one quart of oil. But you must use the right kind. This part explains what kind of oil to use. For crankcase capacity, see "Capacities and Specifications" in the Index.

NOTICE:

Don't add too much oil. If your engine has so much oil that the oil level gets above the cross-hatched area that shows the proper operating range, your engine could be damaged.

Be sure to fill it enough to put the level somewhere in the proper operating range. Push the dipstick all the way back in when you're through.

What Kind of Engine Oil to Use

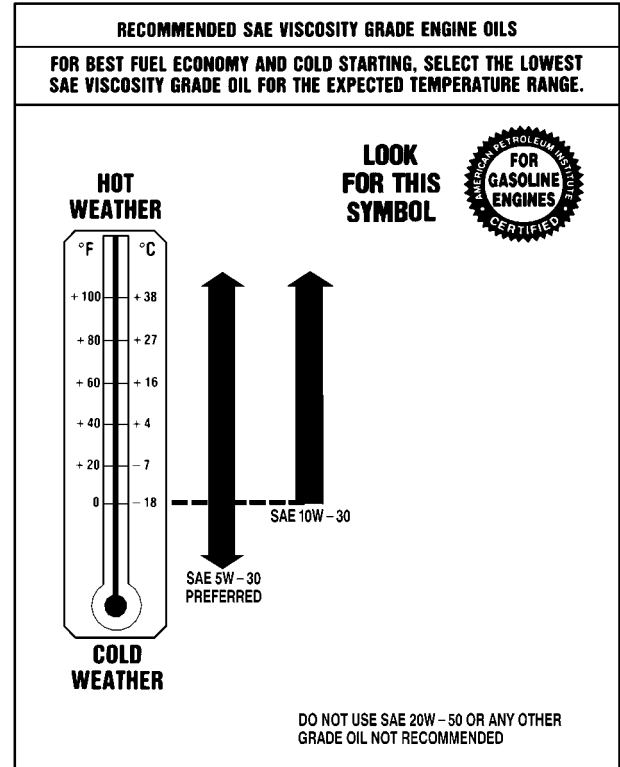
Oils recommended for your vehicle can be identified by looking for the starburst symbol.

This symbol indicates that the oil has been certified by the American Petroleum Institute (API). Do not use any oil which does not carry this starburst symbol.



If you change your own oil, be sure you use oil that has the starburst symbol on the front of the oil container. If you have your oil changed for you, be sure the oil put into your engine is American Petroleum Institute certified for gasoline engines.

You should also use the proper viscosity oil for your vehicle, as shown in the following chart:



As shown in the chart, SAE 5W-30 is best for your vehicle. However, you can use SAE 10W-30 if it's going to be 0°F (-18°C) or above. These numbers on an oil container show its viscosity, or thickness. Do not use other viscosity oils, such as SAE 20W-50.

NOTICE:

Use only engine oil with the American Petroleum Institute Certified For Gasoline Engines starburst symbol. Failure to use the recommended oil can result in engine damage not covered by your warranty.

GM Goodwrench[®] oil meets all the requirements for your vehicle.

If you are in an area where the temperature falls below -20°F (-29°C), consider using either an SAE 5W-30 synthetic oil or an SAE 0W-30 oil. Both will provide easier cold starting and better protection for your engine at extremely low temperatures.

Engine Oil Additives

Don't add anything to your oil. The recommended oils with the starburst symbol are all you will need for good performance and engine protection.

When to Change Engine Oil

If any one of these is true for you, use the short trip/city maintenance schedule:

- Most trips are less than 5 to 10 miles (8 to 16 km). This is particularly important when outside temperatures are below freezing.
- Most trips include extensive idling (such as frequent driving in stop-and-go traffic).
- Most trips are through dusty areas.
- You frequently tow a trailer or use a carrier on top of your vehicle.
- The vehicle is used for delivery service, police, taxi or other commercial application.

Driving under these conditions causes engine oil to break down sooner. If any one of these is true for your vehicle, then you need to change your oil and filter every 3,000 miles (5 000 km) or 3 months -- whichever occurs first.

If none of them is true, use the long trip/highway maintenance schedule. Change the oil and filter every 7,500 miles (12 500 km) or 12 months -- whichever occurs first. Driving a vehicle with a fully warmed engine under highway conditions causes engine oil to break down slower.

What to Do with Used Oil

Did you know that used engine oil contains certain elements that may be unhealthy for your skin and could even cause cancer? Don't let used oil stay on your skin for very long. Clean your skin and nails with soap and water, or a good hand cleaner. Wash or properly throw away clothing or rags containing used engine oil. (See the manufacturer's warnings about the use and disposal of oil products.)

Used oil can be a real threat to the environment. If you change your own oil, be sure to drain all free-flowing oil from the filter before disposal. Don't ever dispose of oil by putting it in the trash, pouring it on the ground, into sewers, or into streams or bodies of water. Instead, recycle it by taking it to a place that collects used oil. If you have a problem properly disposing of your used oil, ask your dealer, a service station or a local recycling center for help.

Engine Cover

Removing the Engine Cover

1. Move both front seats as far back as they will go.





2. Remove the instrument panel extension by removing the two nuts that secure it in place. The nuts are located at the bottom of the extension on the driver's and passenger's side corners.



3. Remove the screws located near the top on each side of the extension. Grasp the extension from both sides and gently remove it.



4. Disconnect the electrical connectors and set the extension aside.



5. Grasp the top of the heater duct and pull down gently to remove it.



6. Remove the two bolts at the engine cover. The bolts are not supposed to come out of the cover, only from the front of the dash.

When removing the cover, be careful not to damage the instrument panel or the trim.

7. Disconnect the AM radio ground strap.



8. Grasp the bottom of the cover and slide it rearward. Then, lift it up and out of the vehicle.

If the seal does not release, use the pull strap on the driver's side above the rear mount.

Installing the Engine Cover

1. Lift the engine cover into the vehicle and slide it all the way forward. Make sure the rubber seal is over the latches.
2. Install the two bolts at the engine cover.
3. Put the heater duct over the engine cover studs. Push up on the duct gently until it snaps into place.
4. Reconnect the electrical connectors.
5. Install the engine cover extension by gently squeezing the sides and sliding it into place. Make sure all of the fastener clips engage and the extension fits properly in place. Replace and tighten the two screws.
6. Install the two nuts to secure the extension in place.

Engine Air Cleaner/Filter

Refer to the Maintenance Schedule to determine when to replace the air filter and the crankcase ventilation filter.

See “Scheduled Maintenance” in the Index.



1. To remove the air filter, lift the hood.
2. Unsnap both clips.
3. Remove the top.
4. Change the filter.
5. Snap both clips to secure the air cleaner.

Be sure the air cleaner lid is correctly positioned to seal out dust and contaminants that are harmful to your engine.

Make sure the fresh air hose is still attached after the filter change.

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.

Automatic Transmission Fluid

When to Check and Change

A good time to check your automatic transmission fluid level is when the engine oil is changed.

Change both the fluid and filter every 15,000 miles (25 000 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 every 50,000 miles (83 000 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 transmission. Too much can mean that some of the fluid could come out and fall on hot engine parts or exhaust system parts, starting a fire. Be sure to get an accurate reading if you check your transmission fluid.

Wait at least 30 minutes before checking the transmission fluid level if you have been driving:

- When outside temperatures are above 90°F (32°C).
- At high speed for quite a while.
- In heavy traffic -- especially in hot weather.
- While pulling a trailer.

To get the right reading, the fluid should be at normal operating temperature, which is 180°F to 200°F (82°C to 93°C).

Get the vehicle warmed up by driving about 15 miles (24 km) when outside temperatures are above 50°F (10°C). If it's colder than 50°F (10°C), drive the vehicle in THIRD (3) until the engine temperature gage moves and then remains steady for 10 minutes. Then follow the hot check procedures.

Checking Transmission Fluid Cold

A cold check is made after the vehicle has been sitting for eight hours or more with the engine off and is used only as a reference. Let the engine run at idle for five minutes if outside temperatures are 50°F (10°C) or more. If it's colder than 50°F (10°C), you may have to idle the engine longer. Should the fluid level be low during a cold check, you *must* perform a hot check before adding fluid. This will give you a more accurate reading of the fluid level.

Checking the Fluid Level

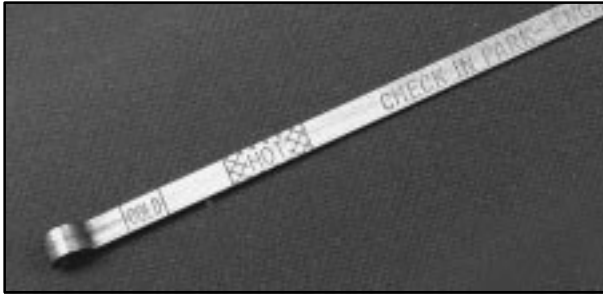
Prepare your vehicle as follows:

- 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 minutes or more.

Then, without shutting off the engine, follow these steps:



1. The transmission dipstick has a red handle and is located near the center of the engine compartment behind the air cleaner. Flip the handle up and then 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 COLD area, below the cross-hatched area, for a cold check or in the HOT area or cross-hatched area for a hot check.
4. If the fluid level is in the acceptable range, push the dipstick back in all the way; then flip the handle down to lock the dipstick in place.

How to Add Fluid

Refer to the Maintenance Schedule to determine what kind of transmission fluid to use. See “Recommended Fluids and Lubricants” in the Index.

Add fluid only after checking the transmission fluid while it is hot. (A cold check is used only as a reference.) If the fluid level is low, add only enough of the proper fluid to bring the level up to the HOT area for a hot check. 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 transmission. Damage caused by fluid other than DEXRON®-III is not covered by your new vehicle warranty.

- After adding fluid, recheck the fluid level as described under “How to Check.”
- When the correct fluid level is obtained, push the dipstick back in all the way; then flip the handle down to lock the dipstick in place.

All-Wheel Drive

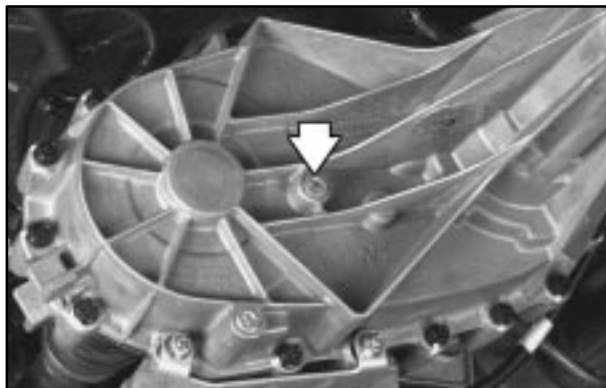
If you have an all-wheel-drive vehicle, be sure to perform the lubricant checks described in this section. However, they have two additional systems that need lubrication.

Transfer Case

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



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.

Front Axle

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



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.

Rear Axle

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



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.

Engine Coolant

The cooling system in your vehicle is filled with DEX-COOL[®] engine coolant. This coolant is designed to remain in your vehicle for 5 years or 150,000 miles (240 000 km), whichever occurs first, if you add only DEX-COOL[®] extended life coolant.

The following explains your cooling system and how to add coolant when it is low. If you have a problem with engine overheating, see “Engine Overheating” in the Index.

A 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant will:

- Give freezing protection down to -34°F (-37°C).
- Give boiling protection up to 265°F (129°C).
- Protect against rust and corrosion.
- Help keep the proper engine temperature.
- Let the warning lights and gages work as they should.

NOTICE:

When adding coolant, it is important that you use only DEX-COOL[®] (silicate-free) coolant. If coolant other than DEX-COOL is added to the system, premature engine, heater core or radiator corrosion may result. In addition, the engine coolant will require change sooner -- at 30,000 miles (50 000 km) or 24 months, whichever occurs first. Damage caused by the use of coolant other than DEX-COOL[®] is not covered by your new vehicle warranty.

What to Use

Use a mixture of one-half *clean, drinkable water* and one-half DEX-COOL[®] coolant which won't damage aluminum parts. If you use this coolant mixture, you don't need to add anything else.



CAUTION:

Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid like alcohol, can boil before the proper coolant mixture will. Your vehicle's coolant warning system is set for the proper coolant mixture. With plain water or the wrong mixture, your engine could get too hot but you wouldn't get the overheat warning. Your engine could catch fire and you or others could be burned. Use a 50/50 mixture of clean, drinkable water and DEX-COOL[®] coolant.

NOTICE:

If you use an improper coolant mixture, your engine could overheat and be badly damaged. The repair cost wouldn't be covered by your warranty. Too much water in the mixture can freeze and crack the engine, radiator, heater core and other parts.

If you have to add coolant more than four times a year, have your dealer check your cooling system.

NOTICE:

If you use the proper coolant, you don't have to add extra inhibitors or additives which claim to improve the system. These can be harmful.

Checking Coolant



The vehicle must be on a level surface. When your engine is cold, the coolant level should be at ADD, or a little higher. When your engine is warm, the level should be up to FULL HOT, 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.



The radiator pressure cap must be tightly installed with the arrows on the cap lined up with the overflow tube on the radiator fill neck.

Power Steering Fluid



When to Check Power Steering Fluid

It is not necessary to regularly check power steering fluid unless you suspect there is a leak in the system or you hear an unusual noise. A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

How to Check Power Steering Fluid

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.

The level should be at the FULL COLD mark. If necessary, add only enough fluid to bring the level up to the mark.

What to Use

To determine what kind of fluid to use, see “Recommended Fluids and Lubricants” in the 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.

Adding Washer Fluid



Open the cap labeled WASHER FLUID ONLY. Add washer fluid until the tank is full.

NOTICE:

- **When using concentrated washer fluid, follow the manufacturer's instructions for adding water.**
- **Don't mix water with ready-to-use washer fluid. Water can cause the solution to freeze and damage your washer fluid tank and other parts of the washer system. Also, water doesn't clean as well as washer fluid.**
- **Fill your washer fluid tank only three-quarters full when it's very cold. This allows for expansion if freezing occurs, which could damage the tank if it is completely full.**
- **Don't use engine coolant (antifreeze) in your windshield washer. It can damage your washer system and paint.**

Brakes

Brake Fluid



Your brake master cylinder reservoir is here. It is filled with DOT-3 brake fluid.

There are only two reasons why the brake fluid level in the reservoir might go down. The first is that the brake fluid goes down to an acceptable level during normal brake lining wear. When new linings are put in, the fluid level goes back up.

The other reason is that fluid is leaking out of the brake system. If it is, you should have your brake system fixed, since a leak means that sooner or later your brakes won't work well, or won't work at all.

So, it isn't a good idea to "top off" your brake fluid. Adding brake fluid won't correct a leak. If you add fluid when your linings are worn, then you'll have too much fluid when you get new brake linings. You should add (or remove) brake fluid, as necessary, only when work is done on the brake hydraulic system.

CAUTION:

If you have too much brake fluid, it can spill on the engine. The fluid will burn if the engine is hot enough. You or others could be burned, and your vehicle could be damaged. Add brake fluid only when work is done on the brake hydraulic system.

Refer to the Maintenance Schedule to determine when to check your brake fluid. See "Periodic Maintenance Inspections" in the Index.

Checking Brake Fluid



You can check the brake fluid without taking off the cap. Just look at the brake fluid reservoir. The fluid level should be above MIN. If it isn't, have your brake system checked to see if there is a leak.

After work is done on the brake hydraulic system, make sure the level is above the MIN but not over the MAX mark.

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 front disc brakes and rear drum brakes.

Disc brake pads have built-in wear indicators that make a high-pitched warning sound when the brake pads are worn and new pads are needed. The sound may come and go or be heard all the time your vehicle is moving (except when you are pushing on the brake pedal firmly).

CAUTION:

The brake wear warning sound means that soon your brakes won't work well. That could lead to an accident. When you hear the brake wear warning sound, have your vehicle serviced.

NOTICE:

Continuing to drive with worn-out brake pads could result in costly brake repair.

Some driving conditions or climates may cause a brake squeal when the brakes are first applied or lightly applied. This does not mean something is wrong with your brakes.

Properly torqued wheel nuts are necessary to help prevent brake pulsation. When tires are rotated, inspect brake pads for wear and evenly torque wheel nuts in the proper sequence to GM specifications.

Your rear drum brakes don't have wear indicators, but if you ever hear a rear brake rubbing noise, have the rear brake linings inspected immediately. Also, the rear brake drums should be removed and inspected each time the tires are removed for rotation or changing. When you have the front brake pads replaced, have the rear brakes inspected, too.

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 make a brake stop, your disc brakes adjust for wear.

If your brake pedal goes down farther than normal, your rear drum brakes may need adjustment. Adjust them by backing up and firmly applying the brakes a few times.

Replacing Brake System Parts

The braking system on a vehicle is complex. Its many parts have to be of top quality and work well together if the vehicle is to have really good braking. Your vehicle was designed and tested with top-quality GM brake parts. When you replace parts of your braking system -- for example, when your brake linings wear down and you have to have new ones put in -- be sure you get new approved GM replacement parts. If you don't, your brakes may no longer work properly. For example, if someone puts in brake linings that are wrong for your vehicle, the balance between your front and rear brakes can change -- for the worse. The braking performance you've come to expect can change in many other ways if someone puts in the wrong replacement brake parts.

Battery

Your new vehicle comes with a maintenance free ACDelco[®] battery. When it's time for a new battery, get one that has the replacement number shown on the original battery's label. We recommend an ACDelco battery.

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 any bulb changing procedure not listed in this section, contact your GM dealer service department.

Before replacing any bulbs, make sure all lamps are off and the vehicle is not running. See "Replacement Bulbs" in the Index.

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

Sealed Beam Lamps



1. Remove the four retainer screws and the retainer.



2. Pull the connector out and unplug the lamp.

3. Plug the new lamp into the connector.
4. Reverse Steps 1 and 2 to reinstall the headlamp.

Composite Headlamps

1. Open the hood.



2. Remove the two screws from the sidemarker/turn signal lamp.



3. Completely remove the sidemarker/turn signal lamp by pulling out the assembly and disconnecting the sidemarker/turn signal lamp sockets from the lamp.



4. Remove the screw located behind the corner reflector to remove the entire corner reflector.



5. Remove the remaining three screws; the first one from the corner reflector pocket and the two remaining from the composite assembly.



6. Remove the composite assembly.



2. Remove the lamp assembly.

7. Turn the halogen bulb counterclockwise to remove from the assembly.
8. Install the new bulb into the composite assembly by turning it clockwise until it is completely tightened.
9. Replace the composite assembly by installing and tightening all of the screws previously removed.

Front Turn Signal Lamps

1. Remove the two screws at the inside edge of the parking/turn signal lamp assembly.

3. Squeeze the tab on the side of the lamp socket while turning the socket counterclockwise.
4. Pull the socket out of the lamp assembly.
5. Pull the bulb from the socket.
6. Gently push the new bulb into the socket.
7. Put the socket back into the lamp assembly and turn it clockwise until it locks.
8. Put the parking/turn signal lamp assembly back into the vehicle and tighten the screws.

Taillamps

1. Open the rear door.



2. Remove the two screws from behind the door.



3. Pull out the taillamp assembly so you can see the socket.



4. Press the tab and turn the socket counterclockwise to remove the socket from the bezel.

If the socket does not have a tab, turn the socket counterclockwise to remove the socket from the bezel.

5. Reverse Steps 1 through 4 to reinstall the taillamp.

Windshield Wiper Blade Replacement

Windshield wiper blades should be inspected at least twice a year for wear and cracking. See “Wiper Blade Check” in Section 7 of this manual under Part B “Owner Checks and Services” for more information.



To replace your windshield wiper blade inserts, lift the wiper arm away from the windshield.

Pinch the two tabs on the wiper arm and slide the insert out of the blade. Slide the new one in place. Make sure the tabs are locked into position. See “Normal Maintenance Replacement Parts” in the Index for the proper type of replacement blade.

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 GM 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.

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

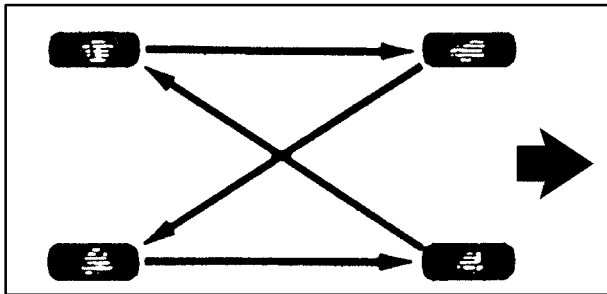
Use a good quality pocket-type gage to check tire pressure. You can't tell if your tires are properly inflated simply by looking at them. Radial tires may look properly inflated even when they're underinflated.

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 ratchet/wheel 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

The following information relates to the system developed by the United States National Highway Traffic Safety Administration, which grades tires by treadwear, traction and temperature performance. (This applies only to vehicles sold in the United States.) The grades are molded on the sidewalls of most passenger car tires. The Uniform Tire Quality Grading system does not apply to deep tread, winter-type snow tires, space-saver or temporary use spare tires, tires with nominal rim diameters of 10 to 12 inches (25 to 30 cm), or to some limited-production tires.

While the tires available on General Motors passenger cars and light trucks may vary with respect to these grades, they must also conform to Federal safety requirements and additional General Motors Tire Performance Criteria (TPC) standards.

Treadwear

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

Traction -- AA, A, B, C

The traction grades, from highest to lowest, are AA, A, B, and C. Those grades represent the tire's ability to stop on wet pavement as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance. Warning: The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature -- A, B, C

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure.

The grade C corresponds to a level of performance which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel than the minimum required by law.

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

Wheel Alignment and Tire Balance

The wheels on your vehicle were aligned and balanced carefully at the factory to give you the longest tire life and best overall performance.

Scheduled wheel alignment and wheel balancing are not needed. However, if you notice unusual tire wear or your vehicle pulling one way or the other, the alignment may need to be reset. If you notice your vehicle vibrating when driving on a smooth road, your wheels may need to be rebalanced.

Wheel Replacement

Replace any wheel that is bent, cracked, or badly rusted or corroded. If wheel nuts keep coming loose, the wheel, wheel bolts and wheel nuts should be replaced. If the wheel leaks air, replace it (except some aluminum wheels, which can sometimes be repaired). See your dealer if any of these conditions exist.

Your dealer will know the kind of wheel you need.

Each new wheel should have the same load-carrying capacity, diameter, width, offset and be mounted the same way as the one it replaces.

If you need to replace any of your wheels, wheel bolts or wheel nuts, replace them only with new GM original equipment parts. This way, you will be sure to have the right wheel, wheel bolts and wheel nuts for your vehicle.

 **CAUTION:**

Using the wrong replacement wheels, wheel bolts or wheel nuts on your vehicle can be dangerous. It could affect the braking and handling of your vehicle, make your tires lose air and make you lose control. You could have a collision in which you or others could be injured. Always use the correct wheel, wheel bolts and wheel nuts for replacement.

NOTICE:

The wrong wheel can also cause problems with bearing life, brake cooling, speedometer or odometer calibration, headlamp aim, bumper height, vehicle ground clearance and tire or tire chain clearance to the body and chassis.

See “Changing a Flat Tire” in the Index for more information.

Used Replacement Wheels

 **CAUTION:**

Putting a used wheel on your vehicle is dangerous. You can't know how it's been used or how far it's been driven. It could fail suddenly and cause an accident. If you have to replace a wheel, use a new GM original equipment wheel.

Tire Chains

NOTICE:

If your vehicle has P235/65R15 size tires, don't use tire chains. They can damage your vehicle because there's not enough clearance.

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.

NOTICE: (Continued)

NOTICE: (Continued)

If you do find traction devices that will fit, install them on the rear tires.

If you have other 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 rear axle tires and tighten them as tightly as possible with the ends securely fastened. Drive slowly and follow the chain manufacturer's instructions. If you can hear the chains contacting your vehicle, stop and retighten them. If the contact continues, slow down until it stops. Driving too fast or spinning the wheels with chains on will damage your vehicle.

Appearance Care

Remember, cleaning products can be hazardous. Some are toxic. Others can burst into flame if you strike a match or get them on a hot part of the vehicle. Some are dangerous if you breathe their fumes in a closed space. When you use anything from a container to clean your vehicle, be sure to follow the manufacturer's warnings and instructions. And always open your doors or windows when you're cleaning the inside.

Never use these to clean your vehicle:

- Gasoline
- Benzene
- Naphtha
- Carbon Tetrachloride
- Acetone
- Paint Thinner
- Turpentine
- Lacquer Thinner
- Nail Polish Remover

They can all be hazardous -- some more than others -- and they can all damage your vehicle, too.

Don't use any of these unless this manual says you can. In many uses, these will damage your vehicle:

- Alcohol
- Laundry Soap
- Bleach
- Reducing Agents

Cleaning the Inside of Your Vehicle

Use a vacuum cleaner often to get rid of dust and loose dirt. Wipe vinyl, leather, plastic and painted surfaces with a clean, damp cloth.

Cleaning of Fabric/Carpet

Your dealer has two cleaners, Multi-Purpose Interior Cleaner and Capture Non-Solvent Dry Spot and Soil Remover for cleaning fabric and carpet. They will clean normal spots and stains very well. You can get GM-approved cleaning products from your dealer. (See "Appearance Care and Materials" in the Index.)

Here are some cleaning tips:

- Always read the instructions on the cleaner label.
- Clean up stains as soon as you can -- before they set.
- Carefully scrape off any excess stain.
- Use a clean cloth or sponge, and change to a clean area often. A soft brush may be used if stains are stubborn.
- If a ring forms on fabric after spot cleaning, clean the entire area immediately or it will set.

Using Multi-Purpose Interior 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. Mix powdered cleaner following the directions on the container label to form thick suds.
4. Use suds only and apply 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 the suds.
6. Wipe cleaned area with a clean, damp 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 multi-purpose interior 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 instructions for Multi-Purpose Interior Cleaner.

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.)

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, Backglass and Wiper Blades

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

Clean the outside of the windshield with GM Windshield Cleaner, Bon Ami[®] Powder (non-scratching glass cleaning powder), GM Part No. 1050011. The windshield is clean if beads do not form when you rinse it with water.

Grime from the windshield will stick to the wiper blades and affect their performance. Clean the blade by wiping vigorously with a cloth soaked in full-strength windshield washer solvent. Then rinse the blade with water.

Check the wiper blades and clean them as necessary; replace blades that look worn.

Weatherstrips

Silicone grease on weatherstrips will make them last longer, seal better, and not stick or squeak. Apply silicone grease with a clean cloth at least every six months. During very cold, damp weather more frequent application may be required. (See “Recommended Fluids and Lubricants” in the 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 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 Wheels (If Equipped)

Keep your wheels clean using a soft clean cloth with mild soap and water. Rinse with clean water. After rinsing thoroughly, dry with a soft clean towel. A wax may then be applied.

The surface of these wheels is similar to the painted surface of your vehicle. Don't use strong soaps, chemicals, abrasive polishes, abrasive cleaners, cleaners with acid or abrasive cleaning brushes on them because you could damage the surface. Do not use chrome polish on any wheels other than chrome-plated wheels.

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

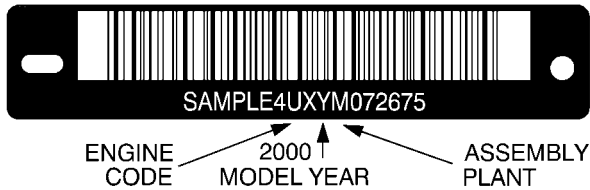
Some weather and atmospheric conditions can create a chemical fallout. Airborne pollutants can fall upon and attack painted surfaces on your vehicle. This damage can take two forms: blotchy, ringlet-shaped discolorations, and small irregular dark spots etched into the paint surface.

Although no defect in the paint job causes this, GM will repair, at no charge to the owner, the surfaces of new vehicles damaged by this fallout condition within 12 months or 12,000 miles (20 000 km) of purchase, whichever occurs first.

GM Vehicle Care/Appearance Materials

| PART NUMBER | SIZE | DESCRIPTION | USAGE |
|---|------------------|--|---|
| 994954 | 23 in. x 25 in. | Polishing Cloth – Wax Treated | Exterior polishing cloth |
| 1050172 | 16 oz. (0.473 L) | Tar and Road Oil Remover | Removes tar, road oil and asphalt |
| 1050173 | 16 oz. (0.473 L) | Chrome Cleaner and Polish | Use on chrome, stainless steel, nickel, copper and brass |
| 1050174 | 16 oz. (0.473 L) | White Sidewall Tire Cleaner | Removes soil and black marks from whitewalls |
| 1050214 | 32 oz. (0.946 L) | Vinyl Cleaner | Cleans vinyl tops, upholstery and convertible tops |
| 1050427 | 23 oz. (0.680 L) | Glass Cleaner | Removes dirt, grime, smoke and fingerprints |
| 1052918** | 8 oz. (0.237 L) | Armor All™ Protectant | Protects leather, wood, acrylics, Plexiglas™, plastic, rubber and vinyl |
| 1052925 | 16 oz. (0.473 L) | Multi-Purpose Interior Cleaner | Cleans carpets, seats, interior trim, door panels and floor mats |
| 1052929 | 16 oz. (0.473 L) | Wheel Cleaner | Spray on and rinse with water |
| 1052930 | 8 oz. (0.237 L) | Capture Dry Spot Remover | Attracts, absorbs and removes soils on fabric |
| 12345721 | 2.5 sq. ft. | Synthetic Chamois | Shines vehicle without scratching |
| 12345725 | 12 oz. (0.354 L) | Silicone Tire Shine | Spray on tire shine |
| 12377964* | 16 oz. (0.473 L) | Finish Enhancer | Removes dust, fingerprints and surface contaminants |
| 12377966* | 16 oz. (0.473 L) | Cleaner Wax | Removes light scratches and oxidation and protects finish |
| 12377984* | 16 oz. (0.473 L) | Surface Cleaner | Removes contaminants, blemishes and swirl marks |
| See your General Motors Parts Department for these products. See "Recommended Fluids and Lubricants" in the Index. | | * For exterior use only. ** Not recommended for use on instrument panels. | |

Vehicle Identification Number (VIN)



This is the legal identifier for your vehicle. It appears on a plate in the front corner of the instrument panel, on the driver's side. You can see it if you look through the windshield from outside your vehicle. The VIN also appears on the Vehicle Certification and Service Parts labels and the certificates of title and registration.

Engine Identification

The 8th character in your VIN is the engine code. This code will help you identify your engine, specifications and replacement parts.

Service Parts Identification Label

You'll find this label on the inside of the rear edge of the passenger's door. 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 a circuit breaker in the lamp switch. An electrical overload will cause the lamps to go on and off, or in some cases to remain off. If this happens, have your headlamp wiring checked right away.

Windshield Wiper Fuses

The windshield wiper motor is protected by a circuit breaker and a fuse. If the motor overheats due to heavy snow, ice, etc., the wiper will stop until the motor cools. If the overload is caused by some electrical problem and not snow, ice, etc., be sure to get it fixed.

Power Windows and Other Power Options

Circuit breakers in the fuse panel 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 or goes away.

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. This greatly reduces the chance of fires caused by electrical problems.

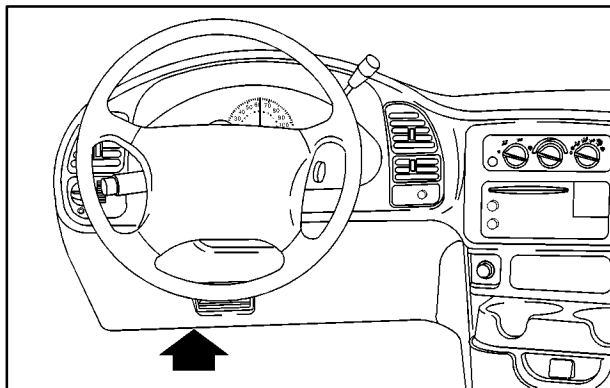
Look at the silver-colored band inside the fuse. If the band is broken or melted, replace the fuse. Be sure you replace a bad fuse with a new one of the identical size and rating.

Spare fuses and a fuse puller are located in the underhood electrical center. You can remove fuses with the fuse puller. Remember to replace any of the spare fuses you use, so you will have some if you ever need them again.

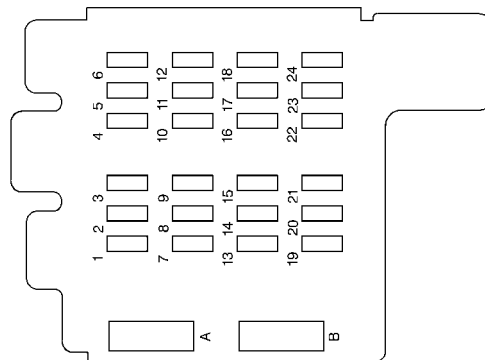
If you ever have a problem on the road and don't have a spare fuse, you can borrow one that has the same amperage. Just pick some feature of your vehicle that you can get along without -- like the radio or cigarette lighter -- and use its fuse, if it is the correct amperage. Replace it as soon as you can.

There are two fuse blocks in your vehicle: one is inside the vehicle and one is in the engine compartment.

Instrument Panel Fuse Block



The fuse block is on the lower portion of the instrument panel on the driver's side.



Fuse/Circuit Breaker

Usage

- | | |
|---|---|
| 1 | Stop/Turn/Hazard Lamps, CHMSL, ABS |
| 2 | Radio ACCY, RR Seat Audio Controls |
| 3 | Courtesy Lamps, Glove Box Lamp, Dome Reading Lamps, Vanity Mirror Lamps, Courtesy Lamps |

| Fuse/Circuit Breaker | Usage | Fuse/Circuit Breaker | Usage |
|-----------------------------|--|-----------------------------|--|
| 4 | DRL Relay, Instrument Panel Cluster | 12 | L, M1, M2 Blower Motor, Rear A/C Relay Coil, Front Cont. Temp. Door Motor, HI Blower Relay, Defogger Timer Coil |
| 5 | Rear Defogger | | |
| 6 | Cruise Module, TBC Module, Instrument Panel Cluster, Cruise Control Switch, Electrochromic Mirror | 13 | Cigarette Lighter, Door Lock Switches, Dutch Door Release Module |
| 7 | Power Outlets, DLC, Subwoofer Amplifier | 14 | Cluster Illum, HVAC Controls, Chime Module, Radio Illumination, Rear Heat Switch Illumination, Rear Wiper/Washer Switch Illumination, Rear Liftgate Switch Illumination, Remote Cassette Illumination, O/H Console, TBC Illumination |
| 8 | Crank Circuit Fuse, Park/Neutral Switch, Starter Enable Relay | 15 | TBC Module, Headlamp Relay |
| 9 | License Plate Lamp, Taillamps, Parking Lamps, Ashtray Lamp, Panel Lights, Trailer Taillamps, Front and Rear Sidemarker Lamps, Door Switch Illumination, Headlamp Switch Illumination, Rear Seat Audio Illumination, TBC Module | 16 | Front Turn Signals, Rear Turn Signals, Trailer Turn Signals, Back-Up Lamps, BTSI Solenoid |
| 10 | Air Bag System | 17 | Front Wipers, Front Washer Pump |
| 11 | Not Used | 18 | VCM-Ign 3, VCM-Brake, Cruise Stepper Motor Signal, ATC Module |

**Fuse/Circuit
Breaker**

Usage

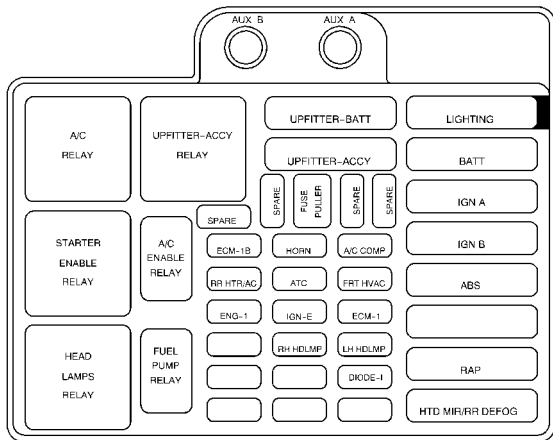
- 19 Instrument Panel Radio:
ATC (Main Feed),
2000 Series (Standby)
- 20 PRNDL/ Odometer, TCC Enable
and PWM Solenoid, Shift A and
Shift B Solenoids, 3-2 Downshift
Solenoid, Instrument Panel
Cluster, VCM Module
- 21 Pwr Adj Mirrors
- 22 Not Used
- 23 Rear Wiper, Rear Washer Pump
- 24 Not Used
- A (Circuit Breaker) Power Door
Lock Relay, 6-Way Power Seats
- B (Circuit Breaker) Power Windows

Underhood Electrical Center



The underhood electrical center is located toward the rear of the engine compartment on the driver's side.

Lift the hood and open the cover to gain access to this fuse block.



Feed

AUX B

AUX A

Usage

Upfitter Battery Feed

Upfitter Accessory Feed

Relay

AUX RR A/C Relay (Rear Heat and A/C)

Upfitter-ACCY Relay

Starter Enable Relay

A/C Enable Relay

Headlamps Relay

Fuel Pump Relay

Fuse/Circuit

Breaker

UPFITTER-BATT

UPFITTER-ACCY

Spare

Fuse Puller*

Spare

Spare

Usage

Upfitter Battery Power Stud,
Trailer Wiring Harness

Upfitter Accessory Relay

Not used

Not used

Not used

Fuse/Circuit Breaker

| | |
|-----------|---|
| ECM-B | Fuel Pump Relay and Motor, VCM, Oil Pressure Switch/Sender |
| HORN | Horn Relay and Horn |
| A/C COMP | A/C Enable Relay and Compressor |
| RR HTR/AC | Rear Heater and A/C |
| ATC | Active Transfer Case |
| FRT HVAC | Front Heater and A/C |
| ENG-I | Oxygen Sensors, Camshaft Position Sensor, Mass Air Flow Sensor, Evaporative Emission Canister Vent Solenoid |
| IGN-E | A/C Enable Relay Coil |
| ECM-I | Fuel Injectors 1-6, Crankshaft Position Sensor, VCM, Coil Driver Module (EST), Ignition Coil |

Fuse/Circuit Breaker

| | |
|----------------|---|
| RH HDLMP | Right Headlamp |
| LH Headlamp | Left Headlamp |
| DIODE-A/C Coil | A/C |
| LIGHTING | Courtesy Fuse, Pwr. Adj. Mirrors Fuse, TBC-Battery Fuse |
| BATT | Power ACCY CB, Stop/Hazard Fuse, Auxiliary Power Fuse, Cigarette Lighter Fuse, Radio Battery Fuse |
| IGN A | Starter Relay, Ignition Switch |
| IGN B | Ignition Switch |
| ABS | Electronic Brake Control Module |
| RAP | Radio Accy, Power Windows |
| HTD MIR/RR | Rear Window Defogger, HVAC Control Head |
| DEFOG | |

*A fuse puller is included in the underhood electrical center. You will also find spare fuses.

Replacement Bulbs

| Exterior Lamps | Quantity | Trade No. |
|---------------------------------|-----------------|------------------|
| Halogen Headlamps - Sealed Beam | 2 | H6054 |
| Halogen Headlamps - Composite | 2 | 9006 (Low-Beam) |
| Halogen Headlamps - Composite | 2 | 9005 (High-Beam) |
| Parking, Turn Signal Lamps | 2 | 3157NA |
| Rear, Stoplamps | 2 | 2057 |
| Sidemarkers Lamps | 4 | 194 |
| Back-up Lamps | 2 | 1156 |

Capacities and Specifications

All capacities are approximate. English and metric conversions are given. See refrigerant charge label under the hood for charge capacity information and requirements. Please refer to “Recommended Fluids and Lubricants” in the Index for more information.

Engine Specifications

| | |
|--------------|------------------------|
| Engine | “VORTEC” 4300 V6 CSFI* |
| RPO | L35 |
| Firing Order | 1-6-5-4-3-2 |
| Horsepower | 190 at 4,400 rpm |

*Central Sequential Fuel Injection

Wheel and Tires

| | |
|------------------|---|
| Wheel Nut Torque | 100 lb-ft (140 N·m) |
| Tire Pressures | See “Loading Your Vehicle” in the Index. |

Cooling System Capacity

| Quantity* without Rear Heater | Quantity* with Rear Heater |
|-------------------------------------|----------------------------------|
| 13.5 quarts (12.8 L) | 16.5 quarts (15.6 L) |

After refill, the level *must* be checked.

*All quantities are approximate.

Crankcase Capacity

| | |
|-----------------------|--------------------|
| Quantity* with Filter | 4.5 quarts (4.3 L) |
|-----------------------|--------------------|

After refill, the level *must* be checked. Do not overfill.

*All quantities are approximate.

Fuel Tank Capacity

| | |
|---------------|------------------------|
| Standard Tank | 27.0 gallons (101.8 L) |
|---------------|------------------------|

Transmission Capacity

| | |
|--|--------------------|
| Automatic Transmission (Drain and Refill) | 5.0 quarts (4.7 L) |
|--|--------------------|

Front Axle Capacity

Front Axle 2.6 pint (1.2 L)

Rear Axle Capacity

Standard Rear Axle 3.5 pint (1.7 L)

Locking Rear Axle 3.5 pint (1.7 L)

Normal Maintenance

Replacement Parts

Replacement part numbers listed in this section are based on the latest information available at the time of printing, and are subject to change. If a part listed in this manual is not the same as the part used in your vehicle when it was built, or if you have any questions, please contact your GM truck dealer.

Engine Oil Filter AC Type PF52

Air Cleaner AC Type A1163C

Positive Crankcase

Ventilation (PCV) Valve AC Type CV769C

Spark Plugs AC Type 41-932

Spark Plug Gap 0.060 inches (1.52 mm)

Fuel Filter AC Type GF481

Wiper Blades (Front) Trico 22110158, Pin Type
18 inches (45.7 cm) Length

Wiper Blade (Rear)

Trico 22154396, Pin Type

14 inches (35.5 cm) Length

Vehicle Dimensions*

Length 189.8 inches (482.0 cm)

Width 77.5 inches (196.8 cm)

Height 76.0 inches (193.0 cm)

Wheelbase 111.0 inches (281.9 cm)

Front Tread Width 65.1 inches (165.4 cm)

Rear Tread Width 65.1 inches (165.4 cm)

*Figures reflect base equipment only.

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 | 7-43 | Part B: Owner Checks and Services |
| 7-4 | Part A: Scheduled Maintenance Services | 7-48 | Part C: Periodic Maintenance Inspections |
| 7-8 | Short Trip/City Scheduled Maintenance | 7-50 | Part D: Recommended Fluids and Lubricants |
| 7-30 | Long Trip/Highway Scheduled Maintenance | 7-52 | Part E: Maintenance Record |

**IMPORTANT:
KEEP ENGINE OIL
AT THE PROPER
LEVEL AND CHANGE AS
RECOMMENDED**



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” shows 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.

These schedules are 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.

Selecting the Right Schedule

First you'll need to decide which of the two schedules is right for your vehicle. Here's how to decide which schedule to follow:

Scheduled Maintenance

Short Trip/City Definition

Follow the Short Trip/City Scheduled Maintenance if any one of these conditions is true for your vehicle:

- Most trips are less than 5 to 10 miles (8 to 16 km). This is particularly important when outside temperatures are below freezing.
- Most trips include extensive idling (such as frequent driving in stop-and-go traffic).
- Most trips are through dusty areas.
- You frequently tow a trailer or use a carrier on top of your vehicle.
- If the vehicle is used for delivery service, police, taxi or other commercial application.

One of the reasons you should follow this schedule if you operate your vehicle under any of these conditions is that these conditions cause engine oil to break down sooner.

Short Trip/City Intervals

Every 3,000 Miles (5 000 km): Engine Oil and Filter Change (or 3 months, whichever occurs first). Chassis Lubrication (or 3 months, whichever occurs first). Drive Axle Service (or 3 months, whichever occurs first).

Every 6,000 Miles (10 000 km): Tire Rotation.

Every 15,000 Miles (25 000 km): Engine Air Cleaner Filter Inspection, if driving in dusty conditions. Front Wheel Bearing Repack (2WD only) (or at each brake relining, whichever occurs first). Automatic Transmission Service (severe conditions only).

Every 30,000 Miles (50 000 km): Engine Air Cleaner Filter Replacement. Fuel Filter Replacement.

Every 50,000 Miles (83 000 km): Automatic Transmission Service (normal conditions).

(Continued)

Scheduled Maintenance

Short Trip/City Intervals

Every 60,000 Miles (100 000 km): Engine Accessory Drive Belt Inspection.

Every 100,000 Miles (166 000 km): Spark Plug Wire Inspection. Spark Plug Replacement. Positive Crankcase Ventilation (PCV) Valve Inspection.

Every 150,000 Miles (240 000 km): Cooling System Service (or every 60 months, whichever occurs first).

These intervals only summarize maintenance services. Be sure to follow the complete scheduled maintenance on the following pages.

Long Trip/Highway Definition

Follow this scheduled maintenance *only* if none of the conditions from the Short Trip/City Scheduled Maintenance are true. Do not use this schedule if the vehicle is used for trailer towing, driven in a dusty area or used off paved roads. Use the Short Trip/City schedule for these conditions.

Driving a vehicle with a fully warmed engine under highway conditions causes engine oil to break down slower.

Scheduled Maintenance

Long Trip/Highway Intervals

Every 7,500 Miles (12 500 km): Engine Oil and Filter Change (or every 12 months, whichever occurs first). Chassis Lubrication (or every 12 months, whichever occurs first). Drive Axle Service. Tire Rotation.

Every 15,000 Miles (25 000 km): Automatic Transmission Service (severe conditions only).

Every 30,000 Miles (50 000 km): Fuel Filter Replacement. Engine Air Cleaner Filter Replacement. Front Wheel Bearing Repack (2WD only) (or at each brake relining, whichever occurs first).

Every 50,000 Miles (83 000 km): Automatic Transmission Service (normal conditions).

Long Trip/Highway Intervals

Every 60,000 Miles (100 000 km): Engine Accessory Drive Belt Inspection.

Every 100,000 Miles (166 000 km): Spark Plug Wire Inspection. Spark Plug Replacement. Positive Crankcase Ventilation (PCV) Valve Inspection.

Every 150,000 Miles (240 000 km): Cooling System Service (or every 60 months, whichever occurs first).

These intervals only summarize maintenance services. Be sure to follow the complete scheduled maintenance on the following pages.

Short Trip/City Scheduled Maintenance

The services shown in this schedule up to 100,000 miles (166 000 km) should be performed after 100,000 miles (166 000 km) at the same intervals. The services shown at 150,000 miles (240 000 km) should be performed at the same interval after 150,000 miles (240 000 km).

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.*

Lubricate the front suspension, ball joints and kingpin bushings, steering linkage and transfer case shift linkage, parking brake cable guides, and brake pedal springs.

+ 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.

*** Drive axle service (see “Recommended Fluids and Lubricants” in the Index for proper lubricant to use):*

- *Check fluid level and add fluid as needed. If driving in dusty areas or when towing a trailer, drain fluid and refill every 15,000 miles (25 000 km).*
- *If your vehicle has a locking differential, drain fluid and refill at first engine oil change.*
- *More frequent lubrication may be required for heavy-duty use.*

Short Trip/City Scheduled Maintenance

3,000 Miles (5 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

6,000 Miles (10 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- 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: |
| | |

Short Trip/City Scheduled Maintenance

9,000 Miles (15 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

12,000 Miles (20 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- 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: |
| | |

Short Trip/City Scheduled Maintenance

15,000 Miles (25 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Inspect engine air cleaner filter if you are driving in dusty conditions.
Replace filter if necessary.
An Emission Control Service. (See footnote †.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Change automatic transmission 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 every 50,000 miles (83 000 km).

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

Short Trip/City Scheduled Maintenance

18,000 Miles (30 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

21,000 Miles (35 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

24,000 Miles (40 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

Short Trip/City Scheduled Maintenance

- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

27,000 Miles (45 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first). *An Emission Control Service.*
- Lubricate chassis components (or every 3 months, whichever occurs first). *(See footnote #.)*
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

30,000 Miles (50 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first). *An Emission Control Service.*
- Lubricate chassis components (or every 3 months, whichever occurs first). *(See footnote #.)*
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

| | |
|-----------------------|---------------------|
| DATE | |
| ACTUAL MILEAGE | SERVICED BY: |
| | |

| | |
|-----------------------|---------------------|
| DATE | |
| ACTUAL MILEAGE | SERVICED BY: |
| | |

(Continued)

Short Trip/City Scheduled Maintenance

30,000 Miles (50 000 km) Continued

- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Replace fuel filter.
An Emission Control Service. (See footnote †.)
- Replace engine air cleaner filter.
An Emission Control Service.
- Change automatic transmission 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 every 50,000 miles (83 000 km).*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

Short Trip/City Scheduled Maintenance

33,000 Miles (55 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

36,000 Miles (60 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

| DATE | |
|----------------|--------------|
| ACTUAL MILEAGE | SERVICED BY: |
| | |

Short Trip/City Scheduled Maintenance

39,000 Miles (65 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

42,000 Miles (70 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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Short Trip/City Scheduled Maintenance

45,000 Miles (75 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Change automatic transmission 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 every 50,000 miles (83 000 km).*
- Inspect engine air cleaner filter if you are driving in dusty conditions.
Replace filter if necessary.
An Emission Control Service. (See footnote †.)

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Short Trip/City Scheduled Maintenance

48,000 Miles (80 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

50,000 Miles (83 000 km)

- If you haven't used your vehicle under severe service conditions listed previously and, therefore, haven't changed your automatic transmission fluid, change both the fluid and filter.

51,000 Miles (85 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Short Trip/City Scheduled Maintenance

54,000 Miles (90 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

57,000 Miles (95 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Short Trip/City Scheduled Maintenance

60,000 Miles (100 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Change automatic transmission 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 every 50,000 miles (83 000 km).

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Short Trip/City Scheduled Maintenance

- Inspect engine accessory drive belt.
An Emission Control Service.
- Replace fuel filter.
An Emission Control Service. (See footnote †.)
- 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 +.)*

63,000 Miles (105 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Short Trip/City Scheduled Maintenance

66,000 Miles (110 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

69,000 Miles (115 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Short Trip/City Scheduled Maintenance

72,000 Miles (120 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- 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)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).

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Short Trip/City Scheduled Maintenance

75,000 Miles (125 000 km) (Continued)

- Change automatic transmission 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 every 50,000 miles (83 000 km).

- Inspect engine air cleaner filter if you are driving in dusty conditions. Replace filter if necessary.
An Emission Control Service. (See footnote †.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

78,000 Miles (130 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)

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Short Trip/City Scheduled Maintenance

- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (*See footnote **.*)
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

81,000 Miles (135 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (*See footnote **.*)

84,000 Miles (140 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (*See footnote **.*)
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

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Short Trip/City Scheduled Maintenance

87,000 Miles (145 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

90,000 Miles (150 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).

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Short Trip/City Scheduled Maintenance

- Change automatic transmission 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 every 50,000 miles (83 000 km).

- Replace fuel filter.
An Emission Control Service. (See footnote †.)
- 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 +.)*

93,000 Miles (155 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.

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Short Trip/City Scheduled Maintenance

93,000 Miles (155 000 km) (Continued)

- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (See footnote **.)

96,000 Miles (160 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (See footnote **.)
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)

99,000 Miles (165 000 km)

- Change engine oil and filter (or every 3 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 3 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (See footnote **.)

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Short Trip/City Scheduled Maintenance

100,000 Miles (166 000 km)

- Inspect spark plug wires.
An Emission Control Service.
- Replace spark plugs.
An Emission Control Service.
- If you haven't used your vehicle under severe service conditions listed previously and, therefore, haven't changed your automatic transmission fluid, change both the fluid and filter.
- Inspect Positive Crankcase Ventilation (PCV) valve.
An Emission Control Service.

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 cooling system and pressure cap.
An Emission Control Service.

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Long Trip/Highway Scheduled Maintenance

The services shown in this schedule up to 100,000 miles (166 000 km) should be performed after 100,000 miles (166 000 km) at the same intervals. The services shown at 150,000 miles (240 000 km) should be performed at the same interval after 150,000 miles (240 000 km).

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.*

Lubricate the front suspension, ball joints and kingpin bushings, steering linkage and transfer case shift linkage, parking brake cable guides, and brake pedal springs.

+ 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.

*** Drive axle service (see “Recommended Fluids and Lubricants” in the Index for proper lubricant to use):*

- *Check fluid level and add fluid as needed.*
- *If your vehicle has a locking differential, drain fluid and refill at first engine oil change.*

Long Trip/Highway Scheduled Maintenance

7,500 Miles (12 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- 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)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Long Trip/Highway Scheduled Maintenance

15,000 Miles (25 000 km) (Continued)

- Change automatic transmission 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 every 50,000 miles (83 000 km).

- 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)

- Change engine oil and filter (or every 12 months, whichever occurs first). *An Emission Control Service.*
- Lubricate chassis components (or every 12 months, whichever occurs first). *(See footnote #.)*
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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Long Trip/Highway Scheduled Maintenance

30,000 Miles (50 000 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Change automatic transmission 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 every 50,000 miles (83 000 km).

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Long Trip/Highway Scheduled Maintenance

30,000 Miles (50 000 km) (Continued)

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (See footnote +.)
- Replace fuel filter.
An Emission Control Service. (See footnote †.)
- Replace engine air cleaner filter.
An Emission Control Service.

37,500 Miles (62 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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45,000 Miles (75 000 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)

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| ACTUAL MILEAGE | SERVICED BY: |
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Long Trip/Highway Scheduled Maintenance

- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. (*See footnote **.*)
- Change automatic transmission 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 every 50,000 miles (83 000 km).

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. (*See footnote +.*)

50,000 Miles (83 000 km)

- If you haven’t used your vehicle under severe conditions listed previously and, therefore, haven’t changed your automatic transmission fluid, change both the fluid and filter.

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Long Trip/Highway Scheduled Maintenance

52,500 Miles (87 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

60,000 Miles (100 000 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).

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Long Trip/Highway Scheduled Maintenance

- Change automatic transmission 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 every 50,000 miles (83 000 km).

- 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 fuel filter.
An Emission Control Service. (See footnote †.)
- Replace engine air cleaner filter.
An Emission Control Service.

Long Trip/Highway Scheduled Maintenance

67,500 Miles (112 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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75,000 Miles (125 000 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*

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Long Trip/Highway Scheduled Maintenance

- Change automatic transmission 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 every 50,000 miles (83 000 km).

- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

82,500 Miles (137 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first). *An Emission Control Service.*
- Lubricate chassis components (or every 12 months, whichever occurs first). *(See footnote #.)*
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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Long Trip/Highway Scheduled Maintenance

90,000 Miles (150 000 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- For Two-Wheel-Drive vehicles only: Clean and repack the front wheel bearings (or at each brake relining, whichever occurs first).
- Change automatic transmission 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 every 50,000 miles (83 000 km).

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Long Trip/Highway Scheduled Maintenance

- Replace fuel filter.
An Emission Control Service. (See footnote †.)
- 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 +.)*

97,500 Miles (162 500 km)

- Change engine oil and filter (or every 12 months, whichever occurs first).
An Emission Control Service.
- Lubricate chassis components (or every 12 months, whichever occurs first).
(See footnote #.)
- Check rear/front axle fluid level and add fluid as needed. Check constant velocity joints and axle seals for leaking. *(See footnote **.)*
- Rotate tires. See “Tire Inspection and Rotation” in the Index for proper rotation pattern and additional information. *(See footnote +.)*

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Long Trip/Highway Scheduled Maintenance

100,000 Miles (166 000 km)

- Inspect spark plug wires.
An Emission Control Service.
- Replace spark plugs.
An Emission Control Service.
- If you haven't used your vehicle under severe service conditions listed previously and, therefore, haven't changed your automatic transmission fluid, change both the fluid and filter.
- Inspect Positive Crankcase Ventilation (PCV) valve.
An Emission Control Service.

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.

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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 ratchet/wheel 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 Transmission Check

Check the transmission fluid level; add if needed. See “Automatic Transmission 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 body door hinges, the body hood, fuel door and rear compartment hinges, latches and locks including interior glove box and console doors, hood latch assembly, secondary latch, pivots, spring anchor, release pawl and any moving seat hardware. Lubricate the hood safety lever pivot and prop rod pivot. 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 (see “Parking Brake” in the Index if necessary) and the regular brake.

NOTE: 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 Transmission 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).

NOTE: Be ready to apply the regular brake immediately if the vehicle begins to move.
3. With the engine off, turn the key to the RUN 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 Transmission Lock Check

While parked, and with the parking brake set, try to turn the ignition key to LOCK in each shift lever position.

- The key should turn to LOCK only when the shift lever is in PARK (P).
- The key should come out only in LOCK.

Parking Brake and Automatic Transmission 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 transmission 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.

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.

Drive Axle Service

Check rear/front axle fluid level and add as needed. Check constant velocity joints and axle seals for leaking.

Transfer Case (All-Wheel Drive) Inspection

Every 12 months or at oil change intervals, check front axle and transfer case and add lubricant when necessary. Check vent hose at transfer case 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. 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

NOTE: 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. |
| Parking Brake Cable Guides | Chassis Lubricant (GM Part No. 12377985 or equivalent) or lubricant meeting requirements of NLGI # 2, Category LB or GC-LB. |
| Power Steering System | GM Power Steering Fluid (GM Part No. 1052884 - 1 pint, 1050017 - 1 quart, or equivalent). |
| Automatic Transmission | DEXRON [®] -III Automatic Transmission Fluid. |

| USAGE | FLUID/LUBRICANT |
|---|---|
| Key Lock Cylinders | Multi-Purpose Lubricant, Superlube [®] (GM Part No. 12346241 or equivalent). |
| Chassis Lubrication | Chassis Lubricant (GM Part No. 12377985 or equivalent) or lubricant meeting requirements of NLGI # 2, Category LB or GC-LB. |
| Front Wheel Bearings | Wheel Bearing Lubricant meeting requirements of NLGI # 2, Category GC or GC-LB (GM Part No. 1051344 or equivalent). |
| Front and Rear Axle (Standard Differential) | SAE 80W-90 Axle Lubricant (GM Part No. 1052271 or equivalent). |

| USAGE | FLUID/LUBRICANT |
|--|---|
| Rear Axle (Locking Differential) | Axle Lubricant; use only GM Part No. 1052271. <i>Do not add friction modifier.</i> |
| Automatic Transfer Case | Automatic Transfer Case Fluid (GM Part No. 12378396). |
| 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). |
| 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

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Maintenance Record

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Maintenance Record

| DATE | ODOMETER READING | SERVICED BY | MAINTENANCE PERFORMED |
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Section 8 Customer Assistance Information

Here you will find out how to contact GMC if you need assistance. This section also tells you how to obtain service publications and how to report any safety defects.

8-2 Customer Satisfaction Procedure
8-4 Customer Assistance for Text Telephone (TTY) Users
8-4 Customer Assistance Offices
8-5 GM Mobility Program for Persons with Disabilities
8-6 Roadside Assistance
8-7 Canadian Roadside Assistance
8-8 Courtesy Transportation

8-9 Warranty Information
8-10 Reporting Safety Defects to the United States Government
8-10 Reporting Safety Defects to the Canadian Government
8-11 Reporting Safety Defects to General Motors
8-11 Ordering Service and Owner Publications in Canada

Customer Satisfaction Procedure



Your satisfaction and goodwill are important to your dealer and to GMC. 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 GMC Consumer Relations Manager by calling 1-800-GMC-8782 (1-800-462-8782, Customer Assistance prompt). 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 GMC, please remember that your concern will likely be resolved at a dealer's facility. That is why we suggest you follow Step One first if you have a concern.

STEP THREE -- Both General Motors and your dealer are committed to making sure you are completely satisfied with your new vehicle. However, if you continue to remain unsatisfied after following the procedure outlined in Steps One and Two, file with the GM/BBB Auto Line Program to enforce any additional rights you may have. Canadian owners refer to your Warranty and Owner Assistance Information booklet for information on the Canadian Motor Vehicle Arbitration Plan (CAMVAP).

The BBB Auto Line Program is an out of court program administered by the Council of Better Business Bureaus to settle automotive disputes regarding vehicle repairs or the interpretation of the New Vehicle Limited Warranty. Although you are required to resort to this informal dispute resolution program prior to filing any court action, use of the program is free of charge and your case will generally be heard within 40 days. If you do not agree with the decision given in your case, you may reject it and proceed with any other venue for relief available to you.

You may contact the BBB using the toll-free telephone number or write them at the following address:

BBB Auto Line
Council of Better Business Bureaus, Inc.
4200 Wilson Boulevard
Suite 800
Arlington, VA 22203-1804
Telephone: 1-800-955-5100

This program is available in all 50 states and the District of Columbia. Eligibility is limited by vehicle age, mileage and other factors. General Motors reserves the right to change eligibility limitations and/or discontinue its participation in this program.

Customer Assistance for Text Telephone (TTY) Users

To assist customers who are deaf, hard of hearing, or speech-impaired and who use Text Telephones (TTYs), GMC has TTY equipment available at its Customer Assistance Center. Any TTY user can communicate with GMC by dialing: 1-800-GMC-8583 (462-8583). (TTY users in Canada can dial 1-800-263-3830.)

Customer Assistance Offices

GMC encourages customers to call the toll-free number for assistance. If a U.S. customer wishes to write to GMC, the letter should be addressed to GMC's Customer Assistance Center.

United States

Pontiac-GMC Customer Assistance Center
P.O. Box 436008
Pontiac, MI 48343-6008

1-800-GMC-8782 (462-8782)
1-800-GMC-8583 (462-8583) (For Text Telephone devices (TTYs))
Roadside Assistance: 1-800-GMC-8782 (462-8782)

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

GMODC - Customer Communication Centre
169-007
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

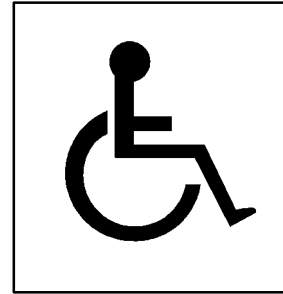
Telephone: 905-644-4112
Fax: 905-644-4866

Caribbean Numbers

1-800-496-9992 (English) Puerto Rico
1-800-496-9993 (Spanish) Puerto Rico
1-800-751-4135 (English) Dominican Republic
1-800-751-4136 (Spanish) Dominican Republic
1-800-496-9994 U.S. Virgin Islands
1-800-389-0009 Bahamas
1-800-534-0122 Bermuda, Barbados, Antigua & B.V.I.

If toll free service is not available in the Caribbean,
call Puerto Rico 1-787-763-1315.

GM Mobility Program for Persons with Disabilities

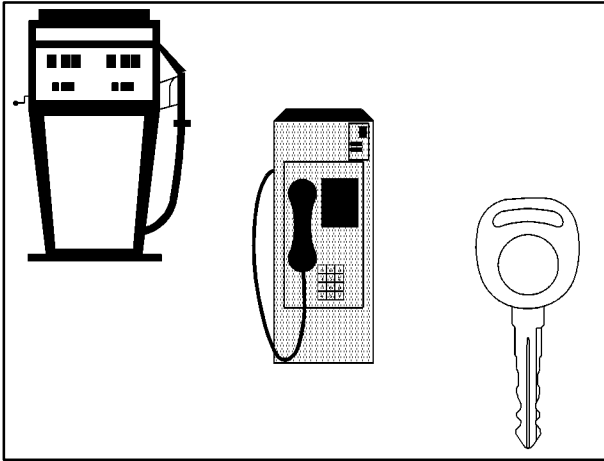


This program, available to qualified applicants, can reimburse you up to \$1,000 toward aftermarket driver or passenger adaptive equipment you may require for your vehicle (hand controls, wheelchair/scooter lifts, etc.).

This program can also provide you with free resource information, such as area driver assessment centers and mobility equipment installers. The program is available for a limited period of time from the date of vehicle purchase/lease. See your dealer for more details or call the GM Mobility Assistance Center at 1-800-323-9935. Text telephone (TTY) users, call 1-800-833-9935.

GM of Canada also has a Mobility Program. Call 1-800-GM-DRIVE (463-7483) for details. When calling from outside Canada, please dial 1-905-644-3063. All TTY users call 1-800-263-3830.

Roadside Assistance



GMC's Roadside Assistance provides stranded owners with over-the-phone roadside repairs, location of the nearest GMC dealer or the following special services:

Flat Tire Change: Installation of spare tire will be covered at no charge (customer is responsible for repair or replacement of tire).

Fuel Delivery: Delivery of enough fuel for the customer to get to the nearest service station (up to \$4.00) will be covered.

Jump Start: No-start situations which require a battery jump start will be covered at no charge.

Lock Out: Replacement keys or locksmith service will be covered at no charge if you are unable to gain entry into your vehicle. Delivery of the replacement key will be covered at no charge within 10 miles (16 km).

Emergency Towing Service: Towing to the nearest GMC dealer for warranty related disablements will be covered.

Deluxe Trip Routing: Custom-made, computerized highlighted maps using the most direct or scenic route are provided free of charge. Maps include points of interest and a list of GMC dealers along the route. Also included is a list of hotels along the route that are discounted through affiliation with "Quest International." Trip Routing is available through Roadside Assistance by calling 1-800-GMC-8782 (462-8782). Please be prepared to provide your Vehicle Identification Number (VIN). Allow five working days for fulfillment.

Trip Interruption Assistance: GMC will reimburse any reasonable trip interruption expenses (up to \$500.00) when directly associated with warranty disablement. Trip Interruption service covers expenses such as meals and overnight lodging if vehicle disablement occurs at least 150 miles (240 km) from your home or rental property. *Please Note:* you will be required to obtain prior approval from GMC Roadside Assistance and pay for expenses at the time of disablement. Original receipts should be submitted to GMC Roadside Assistance for reimbursement. A service representative will provide assistance when you call.

The Roadside Assistance services listed are available to retail and retail lease customers operating 2000 GMC light duty trucks for a period of 3 years/36,000 miles (60 000 km). All services must be pre-arranged by GMC Roadside Assistance.

Over-the-phone assistance, such as providing the name of the closest dealer or minor technical advice, etc., is available to all owner/operators of GMC trucks, regardless of vehicle or mileage.

Just dial GMC Roadside Assistance at 1-800-GMC-8782 (1-800-462-8782, Roadside Assistance prompt) to reach a qualified representative who can assist you.

Your Roadside Assistance representative will ask for the following information when your call is received:

- Vehicle Identification Number (VIN)
- Name and home address
- Telephone number and location from which you are calling
- Location, license plate number and color of your GMC truck
- Mileage of vehicle and description of problem

Roadside Assistance is available 24 hours a day, 7 days a week, 365 days a year, including weekends and holidays. Should you have any questions about roadside assistance, call the GMC Roadside Assistance Center or contact your dealer.

Roadside Assistance is not part of or included in the coverage provided by the New Vehicle Limited Warranty. GMC reserves the right to make any changes or discontinue the Roadside Assistance program at any time without notification.

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 separate brochure provided by the dealer or call 1-800-268-6800 for emergency services.

Courtesy Transportation

GMC 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 GMC 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-GMC-8782 (1-800-462-8782), or write:

Pontiac-GMC Customer Assistance Center
P.O. Box 436008
Pontiac, MI 48343-6008

In Canada, please call us at 1-800-263-3777 (English) or 1-800-263-7854 (French). Or, write:

General Motors of Canada Limited
Customer Communication Centre, 163-005
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

Ordering Service and Owner Publications in Canada

Service manuals, owner's manuals and other service literature are available for purchase for all current and past model General Motors vehicles.

The toll-free telephone number for ordering information in Canada is 1-800-668-5539.

2000 GMC SERVICE PUBLICATIONS ORDERING INFORMATION

The following publications covering the operation and servicing of your vehicle can be purchased by filling out the Service Publication Order Form in this book and mailing it in with your check, money order, or credit card information to Helm, Incorporated (address below.)

CURRENT PUBLICATIONS FOR 2000 GMC

SERVICE MANUALS

Service Manuals have the diagnosis and repair information on engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.

RETAIL SELL PRICE: \$120.00

TRANSMISSION, TRANSAXLE, TRANSFER CASE UNIT REPAIR MANUAL

This manual provides information on unit repair service procedures, adjustments and specifications for the 2000 GM transmissions, transaxles and transfer cases.

RETAIL SELL PRICE: \$50.00

SERVICE BULLETINS

Service Bulletins give technical service information needed to 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 directly 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: \$20.00

Without Portfolio: Owner's Manual only.

RETAIL SELL PRICE: \$15.00

CURRENT & PAST MODEL ORDER FORMS

Service Publications are available for current and past model GM vehicles. To request an order form, please specify year and model name of the vehicle.

PLEASE COMPLETE THE ORDER FORM SHOWN ON THE FOLLOWING PAGE AND MAIL TO:

Helm, Incorporated • P.O. Box 07130 • Detroit, MI 48207

OR ORDER TOLL FREE: 1-800-551-4123

Monday-Friday 8:00 AM – 6:00 PM Eastern Time

For Credit Card Orders Only (VISA–MasterCard–Discover)

ORDER TOLL FREE*(NOTE: For Credit Card Holders Only)***1-800-551-4123**

Monday-Friday 8:00 AM – 6:00 PM EST)

FAX Orders Only 1-313-865-5927

Orders will be mailed within 10 days of receipt. Please allow adequate time for postal service. If further information is needed, write to the address shown below or call 1-800-551-4123. Material cannot be returned for credit without packing slip with return information within 30 days of delivery. On returns, a re-stocking fee may be applied against the original order.

| 2 0 0 0 G M | PUBLICATION FORM NUMBER | ITEM DESCRIPTION | VEHICLE MODEL | | QTY. | PRICE EACH* | TOTAL PRICE |
|----------------------------|----------------------------|---|---------------|------|------|----------------|----------------|
| | | | NAME | YEAR | | | |
| | | Service Manual | | 2000 | | \$120.00 | |
| | | Car & Light Truck Transmission Unit Repair | | 2000 | | \$50.00 | |
| | | Owner's Manual In Portfolio | | 2000 | | \$20.00 | |
| | | Owner's Manual Without Portfolio | | 2000 | | \$15.00 | |
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|--|--|---|--|--|---|---------------|--|
| S H I P T O | NOTE: Dealers and Companies please provide dealer or company name, and also the name of the person to whose attention the shipment should be sent. Mail completed order form to: HELM, INCORPORATED • P.O. Box 07130 • Detroit, MI 48207 For purchases outside U.S.A. please write to the above address for quotation. | | P A Y M E N T | <input type="checkbox"/> Check or Money Order payable to Helm, Inc. (USA funds only — <i>do not send cash.</i>) | TOTAL MATERIAL | | |
| | _____ | | | <input type="checkbox"/> MasterCard | Michigan Purchasers add 6% sales tax | | |
| | (CUSTOMER'S NAME) | (ATTENTION) | | <input type="checkbox"/> VISA | U.S. Order Processing | \$6.00 | |
| | _____ | | | <input type="checkbox"/> Discover | Canadian Postage (See Note Below) | | |
| | _____ | | | Account Number: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | GRAND TOTAL | | |
| _____ | | Expiration Date mo/yr: <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> | Check here if your billing address is different from your shipping address shown. <input type="checkbox"/> | | | | |
| (CITY) | (STATE) | (ZIP CODE) | _____ | | | | |
| DAYTIME TELEPHONE NO. () _____ | | AREA CODE | CUSTOMER SIGNATURE | | | | |

GM-GMC-ORD99

*(Prices are subject to change without notice and without incurring obligation. Allow ample time for delivery.)

Note to Canadian Customers: All listed prices are quoted in U.S. funds. Canadian residents are to make checks payable in U.S. funds. To cover Canadian postage, add \$11.50 plus the U.S. order processing.