Geo

1994
PRIZM
OWNER'S MANUAL

1994 Owner's Manual

Geo Prizm

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How to Use This Manual

Important Notes about This Manual

Please keep this manual in your Geo, 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.

This manual includes the latest information at the time it was printed. We reserve the right to make changes in the product after that time without further notice. For vehicles first sold in Canada, substitute the name "General Motors of Canada Limited" for Chevrolet Motor Division wherever it appears in this manual.

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 concessionaire ou au DGN Marketing Services Ltd., 1500 Bonhill Rd., Mississauga, Ontario L5T 1C7.

Published by:

Chevrolet Motor Division
General Motors Corporation

■ *How to Use This Manual*

Many people read their owner's manual from beginning to end when they first receive their new vehicle. This 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.

Index: A good place to look for what you need is the Index in back of the manual. It's an alphabetical list of all that's in the manual, and the page number where you'll find it.

Parts 1-8: Each part of this manual begins with a brief list of its contents, so you can often find at a glance if a part contains the information you want.

How to Use This Manual: This part tells you how to use your manual and includes safety and vehicle damage warnings and symbols.

Part 1 – Seats & Restraint Systems: This part tells you how to use your seats and safety belts properly. It also explains the air bag system.

Part 2 – Features & Controls: This part explains how to start and operate your Geo.

Part 3 – Comfort Controls & Audio Systems: This part tells you how to adjust the comfort controls and how to operate your sound system.

Part 4 – Your Driving and the Road: Here you'll find helpful information and tips about the road and how to drive under different conditions.

Part 5 – Problems on the Road: This part tells you what to do if you have a problem while driving, such as a flat tire or engine overheating, etc.

Part 6 – Service & Appearance Care: Here the manual tells you how to keep your Geo running properly and looking good.

Part 7 – Maintenance Schedule: This part tells when to perform vehicle maintenance and what fluids and lubricants to use.

How to Use This Manual

Part 8 – Customer Assistance Information: This part includes important information about reporting safety defects and gives you details about the "Roadside Assistance" program. You will also find customer satisfaction phone numbers (including customer satisfaction numbers for the hearing and speech impaired), as well as the mediation/arbitration procedure. We've also included ordering information for service publications in this part.

Service Station Information: This is a quick reference of service information. You can find it on the last page of this manual.

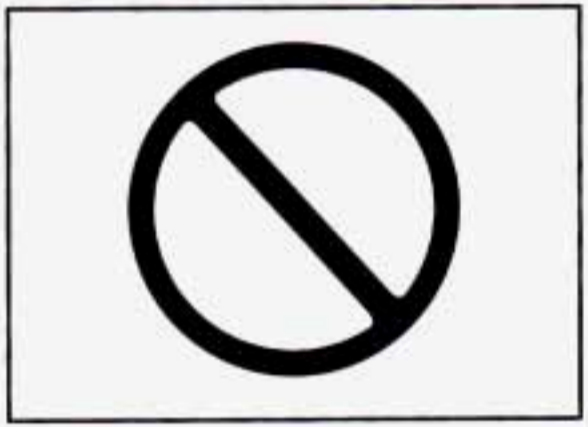
⚠ CAUTION:

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

Safety Warnings and Symbols

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

In the gray 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."

NOTICE:

These mean there is something that could damage your vehicle.

Vehicle Damage Warnings

Also, in this book you will find these notices.

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 yellow for cautions, blue for notices and the words CAUTION or NOTICE.

Vehicle Symbols

These are some of the symbols you will 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

Sparks or Flame Could Explode Battery

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

Fasten Safety Belts

These symbols have to do with your lights:

Master Lighting Switch

Turn Signal Direction

Hazard Warning Flashers

Headlight High Beam

Brightness Control

How to Use This Manual

These symbols are on some of your controls:

Windshield Wiper and Washer

Windshield Washer

Windshield Defroster

Rear Window Defogger

Ventilating Fan

Recirculate Inside Air

Circulate Outside Air

Bi-Level

Vent

Heater

These symbols are used on warning and indicator lights:

Engine Coolant Temperature

Battery Charging System

Engine Oil Pressure

Malfunction Indicator (Check Engine)

Door Ajar

Here are some other symbols you may see:

Hood Release

Lighter

Horn

Trunk Release

Fuel

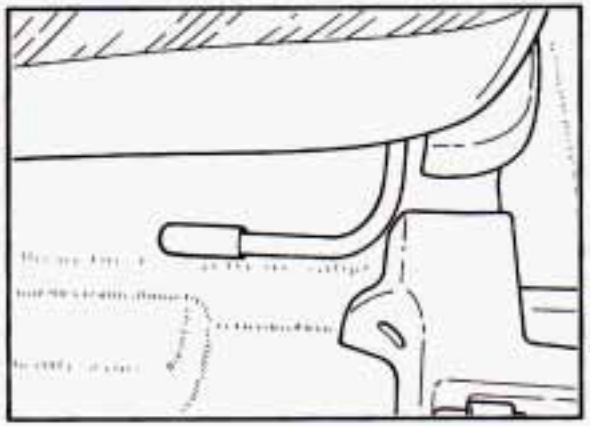
Here you'll find information about the seats in your Geo and how to use your safety belts properly. You can also learn about some things you should not do with safety belts.

Part 1
Seats & Restraint Systems

Seats and Restraint Systems

■ *Seats and Seat Controls*

This section tells you about the seats — how to adjust them, and also about reclining front seatbacks, head restraints and rear folding seatbacks.



Front Seat

⚠ 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.

Lift the lever under the front seat 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.

Don't put anything under the front seats. Items under the seats could keep the seats from locking into place properly.

Reclining Front Seatbacks

To adjust the seatback, lift the lever on the outer side of the seat. Release the lever to lock the seatback where you want it. Push on the seat to make sure it's locked in position. Pull up on the lever, and the seat will go to its original upright position. But don't have the 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

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

Pull up to raise the restraint. To lower it, push the release button and push down.

Make sure the head restraint is locked in place after you adjust it.

Rear Folding Seatback (OPTION)

You can fold either side of the seatback down in your Geo for more cargo space.

To fold either seatback down:

1. Make sure the front seat isn't reclined. If it is, the rear seatback won't fold down all the way.
2. Push the button on the side of the seatback while you pull down on the seatback.

3. Fold the seatback down.

To raise the seatback:

1. Pull the seatback up and push it back to lock it into place.
2. Be sure both sides of the seatback are latched. Push and pull the top of the seatback to be sure it is locked in position.

■ *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 Supplemental Restraint System, or "air bag" system.

⚠ CAUTION:

Don't let anyone ride where they 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.

This figure lights up as a reminder to buckle up. (See "Safety Belt Reminder Light" in the Index.)

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

Seats and Restraint Systems

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.

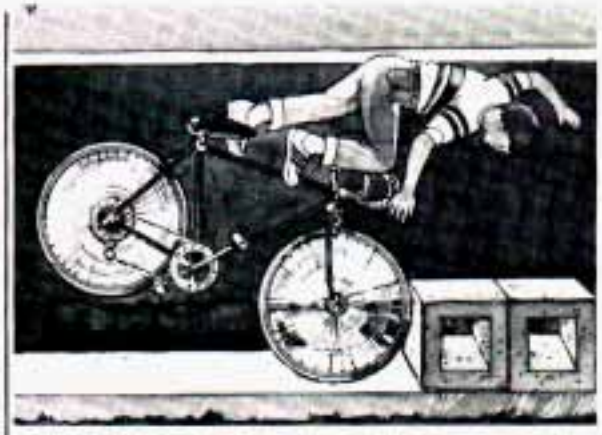
A few crashes are mild, and some crashes can be so serious that even buckled up a person wouldn't survive. But most crashes are in between. In many of them, people who buckle up can survive and sometimes walk away. Without belts they could have been badly hurt or killed.

After more than 25 years of safety belts in vehicles, the facts are clear. In most crashes buckling up does matter ... a lot!

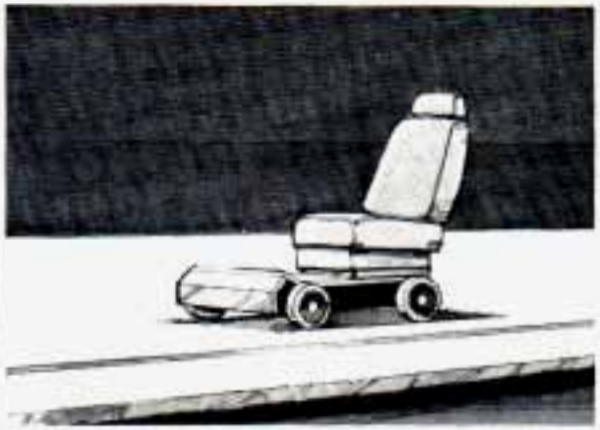
■ *Why Safety Belts Work*

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

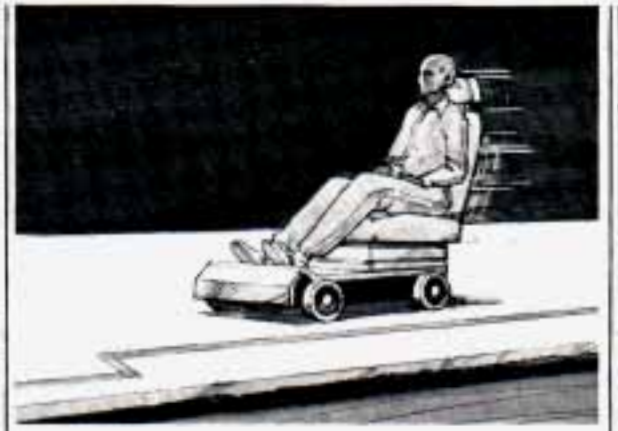
For example, if the bike is going 10 mph (16 km/h), so is the child.



When the bike hits the block, it stops. But the child keeps going!



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.

Seats and Restraint Systems

The person keeps going untii 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 easily 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: Why don't they just put in air bags so people won't have to wear safety belts?

A: Air bags, or Supplemental Restraint Systems, are in some vehicles today and will be in more 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.

■ *Safety Belt Reminder Light*

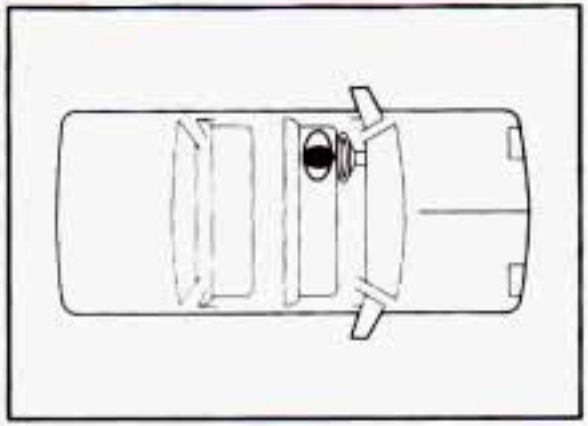
When the key is turned to "On" or "Start," a buzzer will come on for about eight seconds to remind people to fasten their safety belts, unless the driver's safety belt is already buckled. The safety belt light will also come on and stay on until the driver's belt is buckled.

■ *How to Wear Safety Belts Properly*

Adults

This section 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 Geo, see the section after this one, 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 section describes the driver's restraint system.

Lap-Shoulder Belt

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

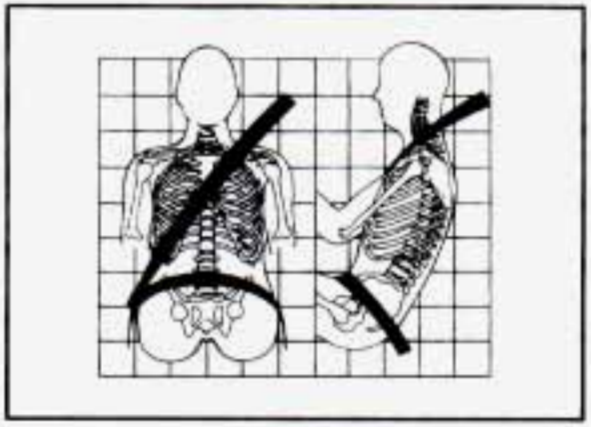
1. Close and lock the door.
2. Adjust the seat (to see how, see "Seats" in the Index) so you can sit up straight.

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.

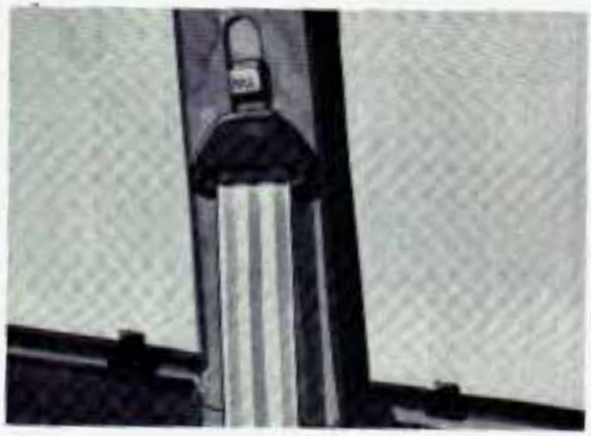
   Make sure the release button on the buckle is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.

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



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

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



Shoulder Belt Height Adjuster

You can move the shoulder belt adjuster to the height that is right for you.

To move it up or down, pull the release knob. When you release the knob, try to move it down a little to make sure it has locked into position.

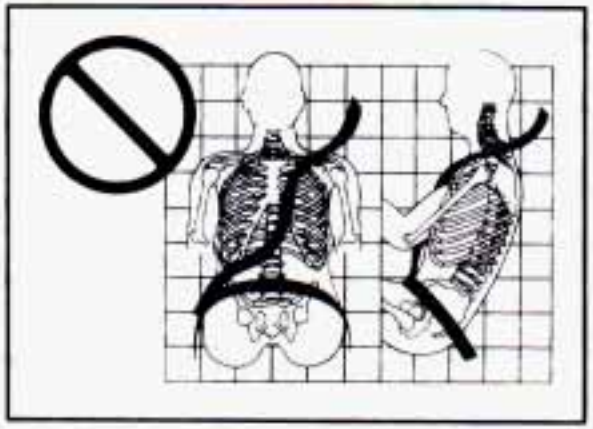
Adjust the height so that the shoulder portion of the belt is properly positioned on your shoulder, away from your face and neck.

To help you find a height that is right for you, follow these guidelines:

For a tall person: Use the upper or upper-middle position.

For a person of average height: Use a position somewhere in the middle.

For a short person: Use the lower or lower-middle position.

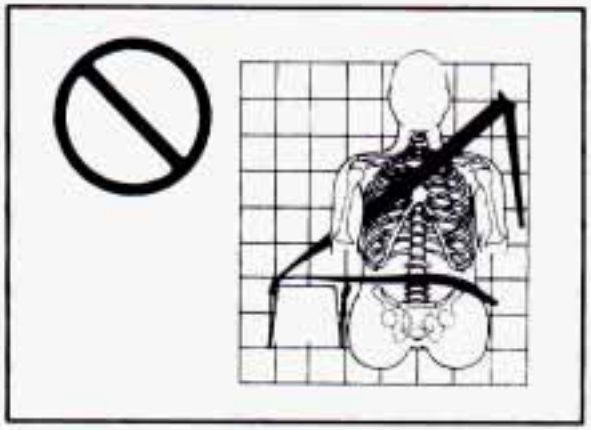


Q: What's wrong with this?

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.

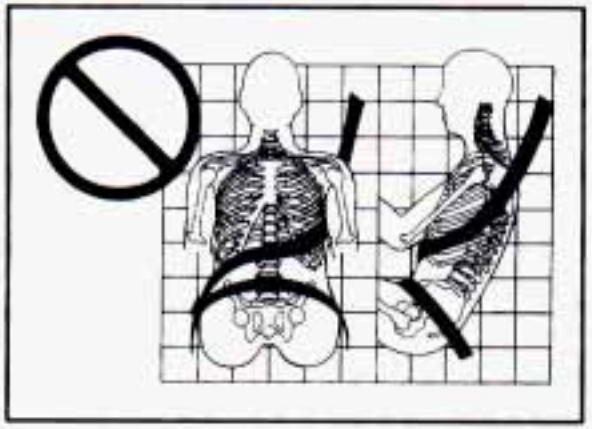


Q: What's wrong with this?

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.

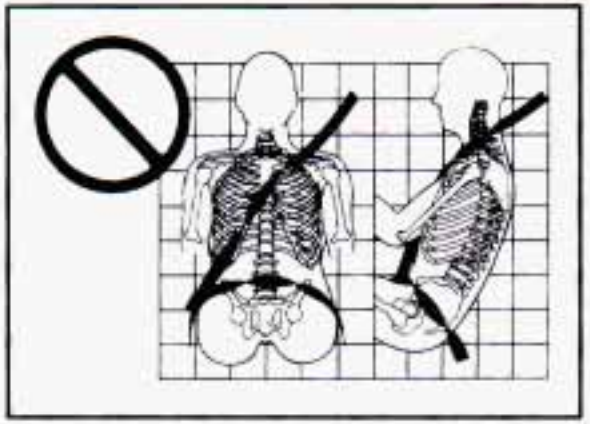


Q: What's wrong with this?

A: The 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.

Supplemental Restraint System (Air Bags)

This section explains the Supplemental Restraint System (SRS), or "air bag" system. Your Geo has an air bag for the driver and for the right-front passenger.

Here are the most important things to know:

⚠ CAUTION:

Even with an air bag, if you're not wearing a safety belt and you're in a crash, your injuries may be much worse. Air bags are not designed to inflate in rollovers or in rear, side or low-speed frontal crashes. You need to wear your safety belt to reduce the chance of hitting things inside the vehicle or being ejected from it. Always wear your safety belt, even with an air bag.

⚠ CAUTION:

Air bags inflate with great force, faster than the blink of an eye. If you're too close to an inflating air bag, it could seriously injure you. Safety belts help keep you in position for an air bag inflation in a crash. Always wear your safety belt, even with an air bag, and the driver should sit as far back as possible while still maintaining control of the vehicle.

⚠ CAUTION:

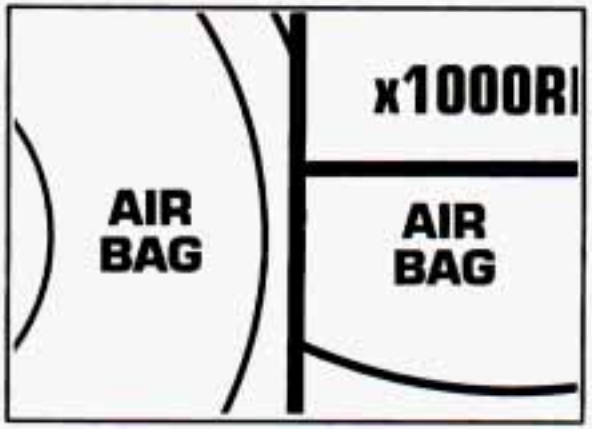
An inflating air bag can seriously injure small children. Always secure children properly in your vehicle. To read how, see the "Children and Safety Belts" section of this manual, and read the caution label on the front-passenger's safety belt.

⚠ 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.

⚠ CAUTION:

Don't put anything on, or attach anything to, the driver air bag or instrument panel. Also, don't put anything (such as pets, or objects) between any occupant and the driver air bag or instrument panel. If something is between an occupant and an air bag, it could affect the performance of the air bag, or, worse, it could cause injury.



Air Bag Readiness Light

There is an air bag readiness light on the instrument panel, which shows "AIR BAG" on it. The system checks for electrical malfunctions, and the light tells you if there is a problem.

You will see this light come on when you turn your ignition to "ACC," "ON" or "START." Then the light should go out, which means the system is ready.

Remember, if the air bag readiness light doesn't come on when you start your vehicle, or stays on, or comes on when you are driving, your air bag system may not work properly. Have your vehicle serviced right away.

How the Air Bag System Works

Where is the air bag?

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

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

When is an air bag expected to inflate?

The air bag is designed to inflate in moderate to severe frontal or near-frontal crashes. The air bag will only inflate if the velocity of the impact is above the designed threshold level. When impacting straight into a wall that does not move or deform, the threshold level for most GM vehicles is between 9 and 15 mph (14 and 23 km/h). However, this velocity threshold depends on the vehicle design and may be several miles-per-hour faster or slower. In addition, this threshold velocity will be considerably higher if the vehicle strikes an object such as a parked car which will move and deform on impact. The air bag is also not designed to inflate in rollovers, side impacts, or rear impacts where the inflation would provide no occupant protection benefit.

It is possible that in a crash, only one of the two air bags in your Geo will deploy. This is rare, but can happen in a crash just severe enough to make an air bag inflate.

In any particular crash, the determination of whether the air bag should have inflated cannot be based solely on the level of damage on the vehicle(s). Inflation is determined by the angle of the impact and the vehicle's deceleration, of which vehicle damage is only one indication. Repair cost is not a good indicator of whether an air bag should have deployed.

What makes an air bag inflate?

In a frontal or near-frontal impact of sufficient severity, the air bag sensing system detects that the vehicle is suddenly stopping as a result of a crash. The sensing system triggers a chemical reaction of the sodium azide sealed in the inflator. The reaction produces nitrogen gas, which inflates a cloth bag. The inflator, cloth bag, and related hardware

are all part of the air bag inflator modules packed inside the steering wheel and in the instrument panel in front of the 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. The air bag supplements the protection provided by safety belts. Air bags distribute the force of the impact more evenly over the occupant's upper body, stopping the occupant more gradually. But air bags would not provide protection in many types of collisions, including rollovers and rear and side impacts, primarily because an occupant's motion is not toward the air bag. Air bags should never be regarded as anything more than a supplement to safety belt protection in moderate to severe frontal and near-frontal collisions.

What will you see after an air bag inflation?

After the air bag has inflated, it will then quickly deflate. This occurs so quickly that some people may not even realize that the air bag inflated. Some components of the air bag module in the steering wheel hub for the driver's air bag or the instrument panel for the passenger's bag may be hot for a short time, but the portion of the bag that comes into contact with you will not be hot to the touch. There will be small amounts of smoke and dust coming from vents in the deflated air bags. The air bag will not impede the driver's vision or ability to steer the vehicle, nor will it hinder the occupants from exiting the vehicle.

In many crashes severe enough to inflate an air bag, windshields are broken by vehicle deformation. Additional windshield breakage may occur in vehicles with passenger air bags because the windshield acts as a reaction surface for the inflating air bag.

- The 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 has information about the need to replace other parts.
- Your vehicle is equipped with a diagnostic module, which records information about the air bag system. The module records information about the readiness of the system, when the sensors are activated, and whether the driver's safety belt was in use.
- 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 cover for the driver's or the right-front passenger's air bag, they may not work properly. You may have to replace the air bag on the steering wheel or both the air bag and the instrument panel for the passenger's air bag. Do not open or break the air bag covers.

Is the smoke from an air bag inflation harmful?

The particles emitted during air bag inflation are not harmful to most people. Some people with respiratory ailments may experience difficulty breathing if they stay in the vehicle with the windows closed after air bag inflation. So, if your air bag inflates, you and any passengers should exit the vehicle if and when it is safe to do so. If you or your passengers can't get out of the vehicle, try to get fresh air by opening a window, turning on the fan, or opening a door.

Servicing your Air Bag-Equipped Geo

Air bags affect how your Geo 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 Geo dealer and the 1994 Prizm Service Manual have information about servicing your vehicle and the air bag system. The air bag system does not need regular maintenance.

⚠ CAUTION:

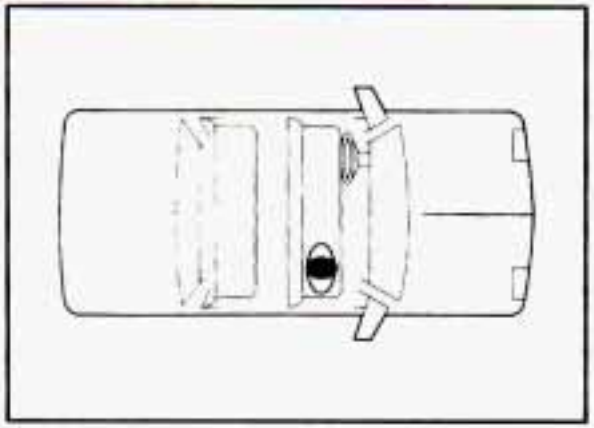
For up to 90 seconds after the ignition key is turned off and the battery disconnected, an air bag can still inflate during improper service. You can be injured if you are close to an air bag when it inflates. Avoid wires wrapped with yellow tape, or yellow connectors. They are probably part of the air bag system. Be sure to follow proper service procedures, and make sure the person performing the work for you is qualified to do so.

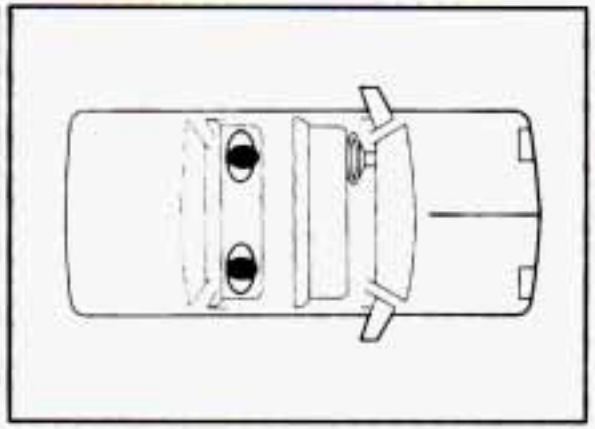
Safety Belt Use during Pregnancy

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 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.





Passenger Positions

Right Front Passenger Position

The right front passenger's safety belt works the same way as the driver's safety belt. See "Driver Position," earlier in this part.

When the shoulder belt is pulled out all the way, it will lock. If it does, let it go back all the way and start again.

Rear Seat Passengers

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

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

Rear Seat Outside Passenger Positions

Lap-Shoulder Belt

The positions next to the windows have lap-shoulder belts. Here's how to wear one properly.

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

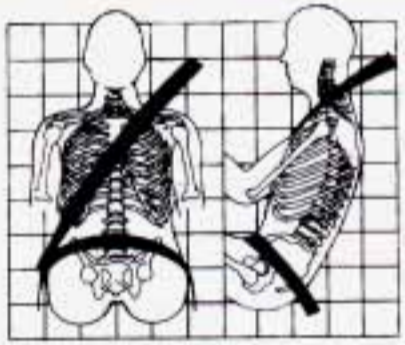
Pull up on the latch plate to make sure it is secure.

When the shoulder belt is pulled out all the way, it will lock. If it does, let it go back all the way and start again.

If the belt is not long enough, see "Safety Belt Extender" at the end of this section.

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

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



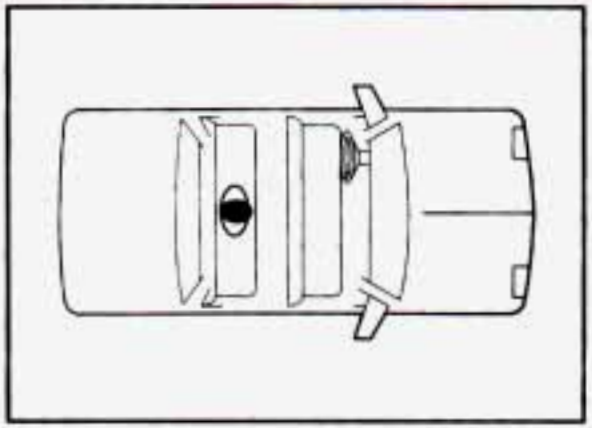
The lap part of the belt should be worn low and snug on the hips, just touching the thighs. In a crash, this applies force to the strong pelvic bones. And you'd be less likely to slide under the lap belt. If you slid under it, the belt would apply force at your abdomen. This could cause serious or even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

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

⚠ CAUTION:

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

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



Center Passenger Position

Lap Belt

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

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. In fact, the law in every state in the United States and in every Canadian province says children up to some age must be restrained while in a vehicle.

Smaller Children and Babies

⚠ CAUTION:

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.

⚠ 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-pound (5.5 kg) baby will suddenly become a 240-pound (110 kg) force on your arms. The baby would be almost impossible to hold.

Secure the baby in an infant restraint.

■ *Child Restraints*

Be sure to 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.

Where to Put the Restraint

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

⚠ CAUTION:

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

You may, however, secure a forward-facing child restraint in the right-front seat. Before you secure a forward-facing child restraint, ALWAYS move the front passenger seat as far back as it will go. Or, secure the child restraint in the rear seat.

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

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

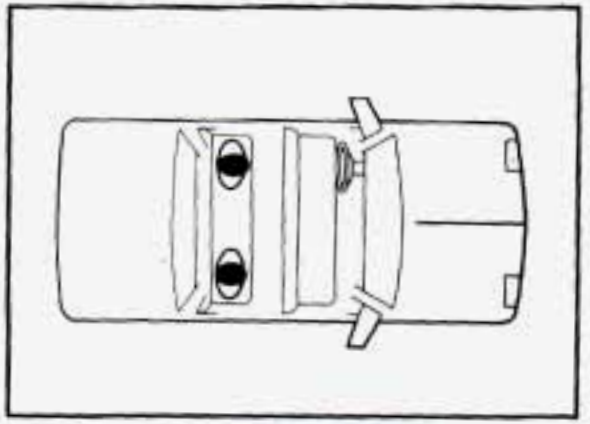
Top Strap

If your child restraint has a top strap, it should be anchored. If you need to have an anchor installed, you can ask your Geo dealer to put it in for you. If you want to install an anchor yourself, your dealer can tell you how to do it.

For cars first sold in Canada, child restraints with a top strap must be anchored according to Canadian law.

Your dealer can obtain the hardware kit and install it for you, or you may install it yourself using the instructions provided in the kit.

Use the tether hardware kit available from the dealer. The hardware and installation instructions were specifically designed for this vehicle.



Securing a Child Restraint in a Rear Outside Position

You'll be using the lap-shoulder belt. See the earlier section about the top strap if the child restraint has one.

1. Put the restraint on the seat. Follow the instructions for the child restraint.
2. Secure the child in the child restraint as the instructions say.
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.

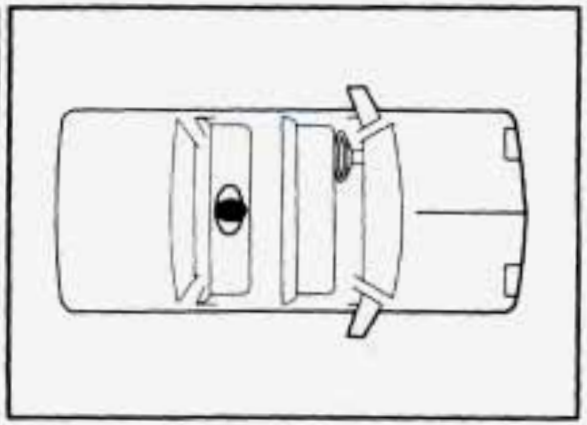
4. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if you ever had to.

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

6. To tighten the belt, feed the shoulder belt into the retractor while you push down on the child restraint.

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.



Securing a Child Restraint in the Center Rear Seat Position

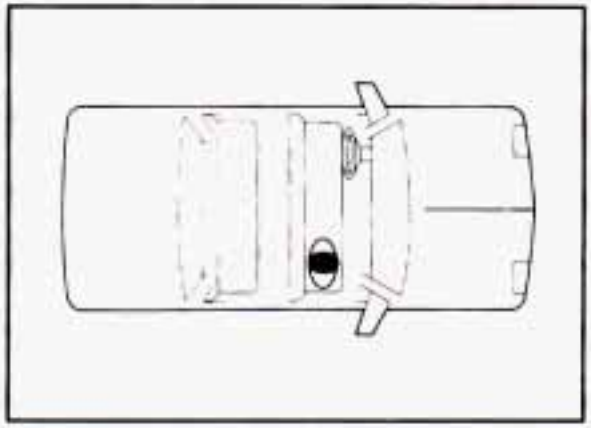
When you secure a child restraint in a center seating position, you'll be using the lap belt.

See the earlier section 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. Follow the instructions for the child restraint.
3. Secure the child in the child restraint as the instructions say.

4. Run the vehicle's safety belt through or around the restraint. The child restraint instructions will show you how.
5. 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.
6. To tighten the belt, pull its free end while you push down on the child restraint.
7. Push and pull the child restraint in different directions to be sure it is secure. If the child restraint isn't secure, turn the latch plate over and buckle it again. Then see if it is secure. If it isn't, secure the restraint in a different place in the vehicle and contact the child restraint maker for their advice about how to attach the child restraint properly.

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

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

⚠ CAUTION:

A rear-facing child restraint in the front seat could be pushed into the seatback by the right-front passenger's air bag if it inflates. A child in a rear-facing child restraint can be seriously injured if this happens. Always secure a rear-facing child restraint in the rear seat.

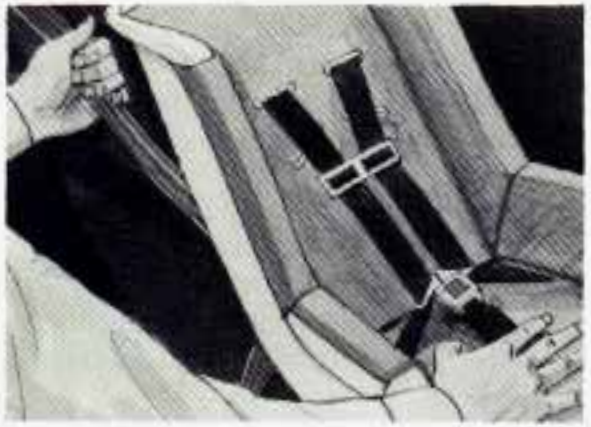
You'll be using the lap-shoulder belt. See the earlier section about the top strap if the child restraint has one.

1. Because your vehicle has a right-front passenger's air bag, always move the seat as far back as it will go before securing a front-facing child restraint.
2. Put the restraint on the seat. Follow the instructions for the child restraint.
3. Secure the child in the child restraint as the instructions say.
4. 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.

5. 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.

6. Pull the rest of the shoulder belt all the way out of the retractor to set the lock.



7. To tighten the belt, feed the shoulder belt back into the retractor while you push down on the child restraint.

8. 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 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 the center seat position, the one that has only a lap belt.

⚠ 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 all your belts, buckles, latch plates, retractors, anchorages and reminder systems are working properly. Look for any loose parts or damage. If you see anything that might keep a restraint system from doing its job, have it repaired.

■ *Replacing Safety Belts after a Crash*

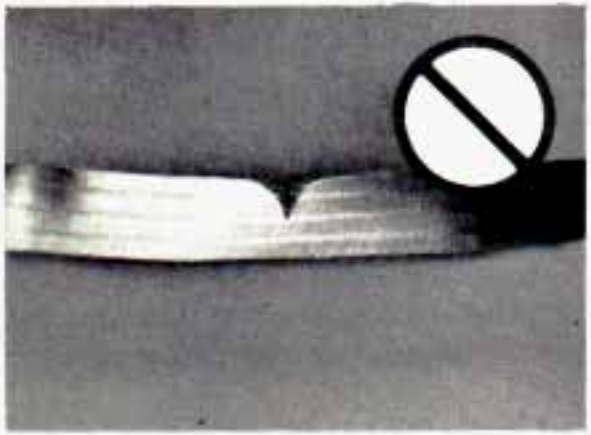
If you've had a crash, do you need new belts?

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 an accident. You would see this label on the belt near the door opening.

If belts are cut or damaged, replace them. Collision damage also may mean you will need to have 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.

Seats and Restraint Systems



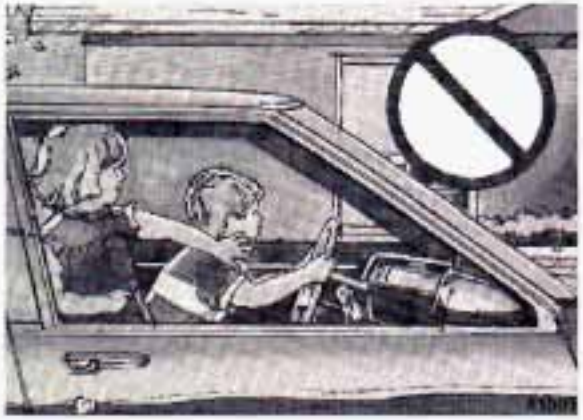
Q: What's wrong with this?

A: The belt is torn.

Torn or frayed 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.

Here you can learn about the many standard and optional features on your Geo, 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.

Part 2
Features & Controls

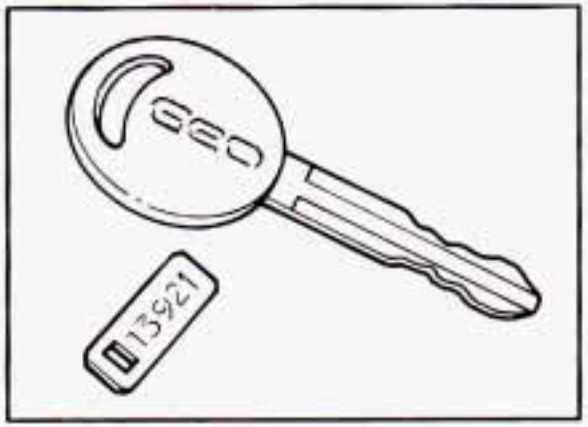


■ *Keys*

⚠ CAUTION:

Leaving young 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 power windows or other controls or even make the vehicle move. Don't leave the keys in a vehicle with young children.



One key is used for the ignition, the doors, and all other locks.

When a new Geo is delivered, the dealer removes the metal plate from the key ring and gives it to the first owner.

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

NOTICE:

Your Geo has a number of 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 an extra key.

■ *Door Locks*

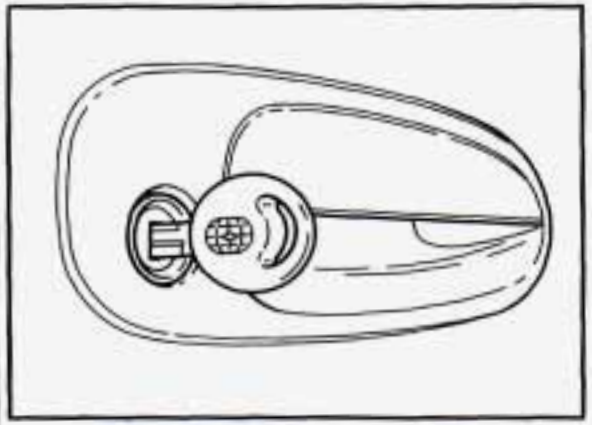
⚠ CAUTION:

Unlocked doors can be dangerous.

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

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

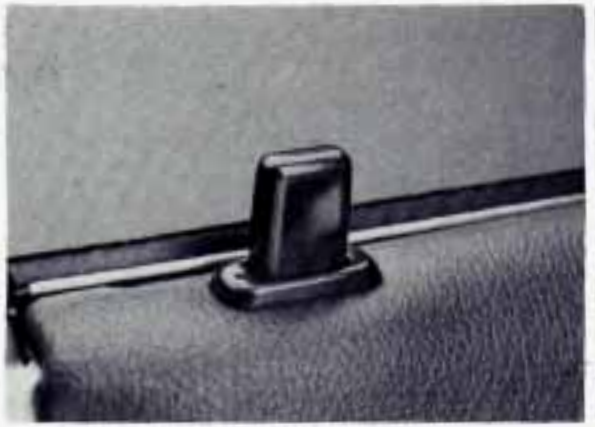
This may not be so obvious: You increase the chance of being thrown out of the vehicle in a crash if the doors aren't locked. Wear safety belts properly, lock your doors, and you will be far better off whenever you drive your vehicle.



There are several ways to lock and unlock your vehicle:

From the outside, use your key. To lock the door, turn the top of the key toward the front of the car. If you have power door locks, all the doors will lock.

Turn the top of the key toward the rear of the car to unlock the door. If your vehicle has power door locks, turn the key once to unlock the driver's door only. Turn the key back to center, then toward the rear again to unlock all the doors. Using the key in the passenger's door will unlock all the doors.



To lock the door from the inside, push down the button on the door.

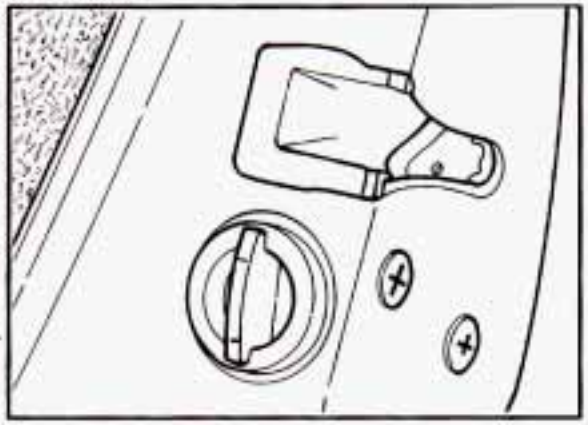
To unlock the door, pull up on the button.

Power Door Locks (Option)

Push the power door lock switch on the driver's door to lock or unlock all the doors at once.

Leaving Your Vehicle

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



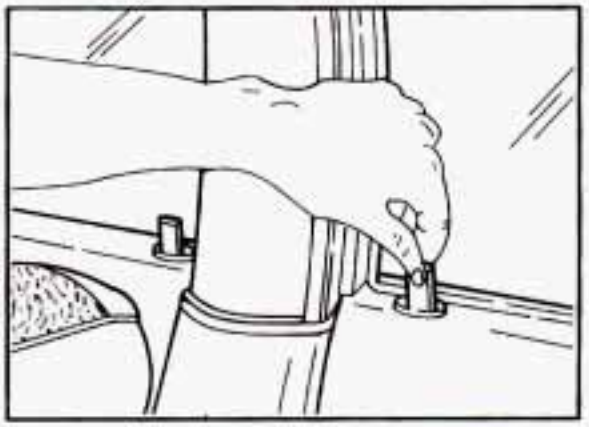
Rear Door Security Lock

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

To use one of these locks:

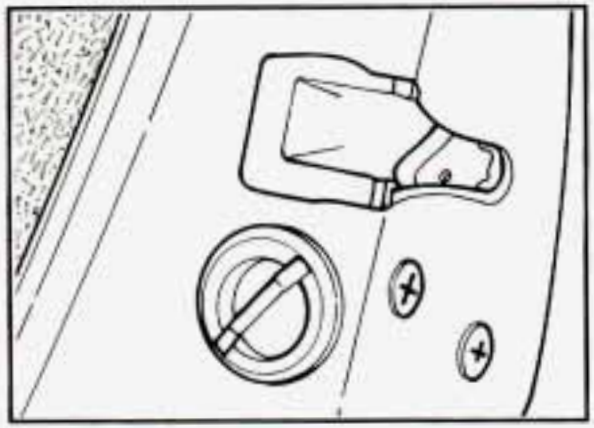
1. Turn the knob so the bar points up and down.
2. Close the door.
3. Do the same thing to the other rear door lock.

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



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

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

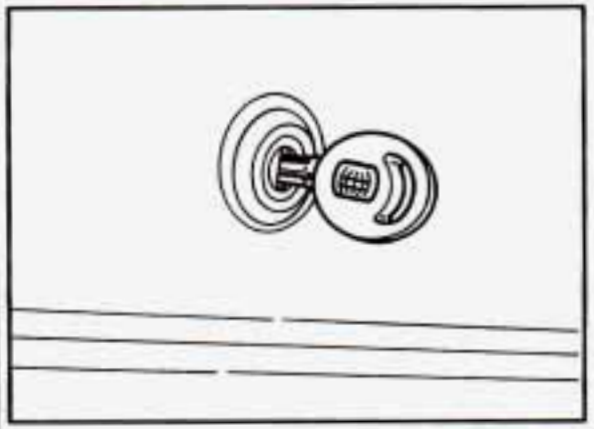


If you don't cancel the security lock feature, adults and older children who ride in the rear won't be able to open the rear door from the inside. You should let adults and older children know how these security locks work, and how to cancel the locks.

To cancel the rear door lock:

1. Unlock the door from the inside and open the door from the outside.
2. Turn the knob so the bar points toward the sides.
3. Do the same for the other rear door.

The rear door locks will now work normally.



Trunk Lock Release

To open the trunk lid, use your key and turn it clockwise.

To close the lid, lower and press down on it. After closing the lid, try pulling it up to make sure it is closed.

Remote Trunk Lock Release

Pull the lever on the floor near the driver's door to open the trunk lid from inside your vehicle.

■ *Theft*

Vehicle theft is big business, especially in some cities. Although your Geo 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 walk away from 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 Geo 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. If you have an automatic transaxle, taking your key out also locks your transaxle. And remember to lock the doors.

Parking at Night

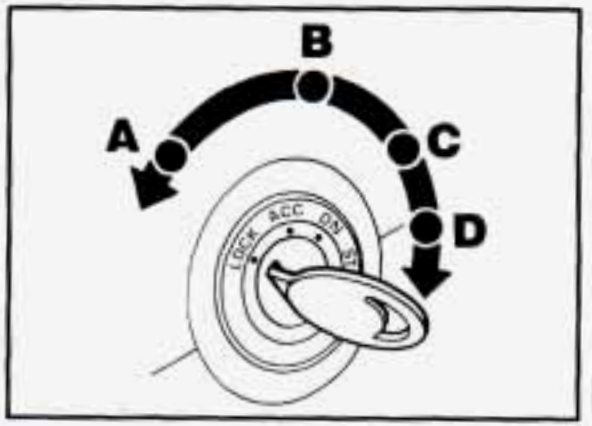
Park in a lighted spot, close all windows and lock your vehicle. Remember to keep your valuables out of sight. Put them in a storage area, or take them with you.

■ *New Vehicle "Break-In"*

NOTICE:

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

- Don't drive at any one speed — fast or slow — for the first 500 miles (804 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.



■ *Ignition Switch*

With the key in the ignition switch, you can turn the switch to four positions:

LOCK (A): The only position in which you can remove the key. This locks your steering wheel, ignition and automatic transaxle. Push in the ignition switch as you turn the top of it toward you.

If you have an automatic transaxle, the ignition switch can't be turned to "LOCK" unless the shift lever is in the "P" (Park) position.

ACC (B): Position in which you can operate some of your electrical power accessories (such as the radio, but not the ventilation fan). It unlocks the steering wheel and ignition.

ON (C): Position to which the switch returns after you start your engine and release the switch. The switch stays in the "ON" position when the engine is running. But even when the engine is not running, you can use "ON" to operate your electrical power accessories (including the ventilation fan) and to display some warning and indicator lights.

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

When the engine is not running, "ACC" and "ON" allow you to operate some of your electrical accessories.

A warning tone will sound if you open the driver's door when the ignition is in "ACC" or "LOCK" and the key is in the ignition.

⚠ CAUTION:

On manual transaxle vehicles, turning the key to "LOCK" will lock the steering column and result in a loss of ability to steer the vehicle. This could cause a collision. If you need to turn the engine off while the vehicle is moving, turn the key only to "ACC." Don't push the key in while the vehicle is moving.

NOTICE:

If your key seems stuck in "LOCK" and you can't turn it, be sure it is 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.

■ *Starting Your Engine*

Automatic transaxle: Move your shift lever to "P" (Park) or "N" (Neutral). Your engine won't start in any other position — that's a safety feature. To restart when you're already moving, use "N" (Neutral) only.

NOTICE:

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

Manual transaxle: The gear selector should be in neutral. Hold the clutch pedal to the floor and start the engine. Your vehicle won't start if the clutch pedal is not all the way down — that's a safety feature.

To start your engine:

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

NOTICE:

Holding your key in "START" for longer than 15 seconds at a time will cause your battery to be drained much sooner. And the excessive heat can damage your starter motor.

2. If it doesn't start in three seconds, wait about 15 seconds and try again to start the engine by turning the ignition key to "START." Wait about 15 seconds between each try to help avoid draining your battery.

   When your engine has run about 10 seconds to warm up, your vehicle is ready to be driven. Don't "race" your engine when it's cold.

   If the weather is below freezing (32°F or 0°C), let the engine run for a few minutes to warm up.

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

   If your engine stalls, restart it as explained earlier. If it stalls often, have the engine checked by your dealer as soon as possible.

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 fuel injection system 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.

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. If you can't avoid deep puddles or standing water, drive through them very slowly.

■ *Automatic Transaxle*

There are several different positions for your shift lever.

- **P (Park)**

This locks your front 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 "P" (Park) 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 "P" (Park).

See "Shifting into 'P' (Park)" in the Index.

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

Ensure the shift lever is fully in "P" (Park) range before starting the engine. Your Geo has a brake-transaxle shift interlock. You have to fully apply your regular brakes before you can shift from "P" (Park) when the ignition key is in the "ON" position. If you cannot shift out of "P" (Park), ease pressure on the shift lever — push the shift lever all the way into "P" (Park) and release the shift lever button as you maintain brake application. Then press the shift lever button and move the shift lever into the gear you wish. See "Shifting out of 'P' (Park)" in this part.

- **R (Reverse)**

Use this gear to back up.

NOTICE:

Shifting to "R" (Reverse) while your vehicle is moving forward could damage your transaxle. Shift to "R" only after your vehicle is stopped.

To rock your vehicle back and forth to get out of snow, ice or sand without damaging your transaxle, see "Stuck: In Sand, Mud, Ice or Snow" in the Index.

- **N (Neutral)**

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

⚠ CAUTION:

Shifting out of "P" (Park) or "N" (Neutral) 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 "P" (Park) or "N" (Neutral) while your engine is racing.

NOTICE:

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

- **D (Drive)**

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

– Going less than about 27 mph (43 km/h), push your accelerator pedal about halfway down.

– Going about 29 mph (47 km/h) or more, push your accelerator pedal all the way down.

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

- **2 (Second Gear)**

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

NOTICE:

Don't drive in "2" (Second Gear) for more than 5 miles (8 km), or at speeds over 55 mph (88 km/h), or you can damage your transaxle. Use "D" as much as possible.

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

- **L (Low Gear)**

This position gives you even more power (but lower fuel economy) than "2." You can use it on very steep hills, or in deep snow or mud. If the selector lever is put in "L," the transaxle won't shift into low gear until the vehicle is going slowly enough.

NOTICE:

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

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

Overdrive (Option)

If your automatic transaxle has Overdrive, you can use it for better fuel economy. After starting your engine, always push in the "OVERDRIVE" switch. Then select the gear you want and press the accelerator pedal.

Gradual starts give you the best fuel economy. Fast starts use the most fuel.

A light on the instrument panel will come on whenever you turn off Overdrive. See "Overdrive Off Light" in the Index.

■ *Manual Transaxle*

Five-Speed

This is your shift pattern. Here's how to operate your transaxle:

- **1 (First Gear)** — Press the clutch pedal and shift into "1." Then, slowly let up on the clutch pedal as you press the accelerator pedal.

  You can shift into "1" when you're going less than 20 mph (32 km/h). If you've come to a complete stop and it's hard to shift into "1," put the shift lever in "Neutral" and let up on the clutch. Press the clutch pedal back down. Then shift into "1."

- **2 (Second Gear)** — Press the clutch pedal as you let up on the accelerator pedal and shift into "2." Then, slowly let up on the clutch pedal as you press the accelerator pedal.
- **3, 4 and 5 (Third, Fourth and Fifth Gears)** — Shift into "3," "4" and "5" the same way you do for "2." Slowly let up on the clutch pedal as you press the accelerator pedal.
- **To Stop** — Let up on the accelerator pedal and press the brake pedal. Just before the vehicle stops, press the clutch pedal and the brake pedal, and shift to "Neutral."
- **Neutral** — Use this position when you start or idle your engine.
- **R (Reverse)** — To back up, press down the clutch pedal and shift into "R." Let up on the clutch pedal slowly while pressing the accelerator pedal.

NOTICE:
Shift to "R" (Reverse) only after your vehicle is stopped. Shifting to "R" (Reverse) while your vehicle is moving could damage your transaxle.

Also, use "R" (Reverse) along with the parking brake for parking your vehicle.

Shift Speeds (MANUAL TRANSMISSION)

This chart shows when to shift to the next gear for best fuel economy.

MANUAL TRANSMISSION RECOMMENDED SHIFT SPEEDS, IN MPH (km/h)

Engine	Acceleration Shift Speed			
	1 to 2 or 2 to 1	2 to 3 or 3 to 2	3 to 4 or 4 to 3	4 to 5 or 5 to 4
All	15 (24)	25 (40)	40 (64)	45 (72)

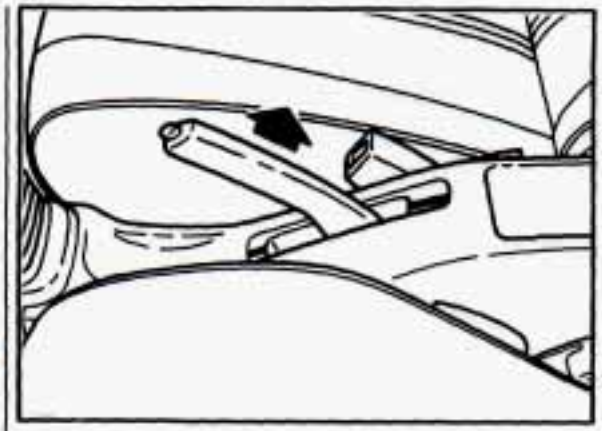
If your speed drops below 20 mph (32 km/h), or if the engine is not running smoothly, you should downshift to the next lower gear. You may have to downshift two or more gears to keep the engine running smoothly or for good performance.

⚠ CAUTION:

If you skip more than one gear when you downshift, you could lose control of your vehicle. And you could injure yourself or others. Don't shift from "5" to "1."

NOTICE:

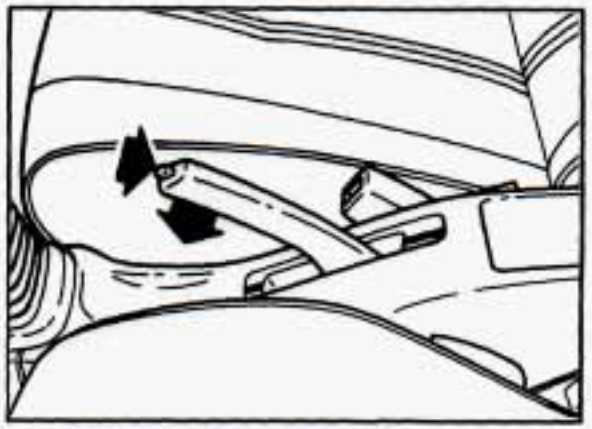
If you skip more than one gear when you downshift, or if you race the engine when you downshift, you can damage the clutch or transaxle.



■ *Parking*

Parking Brake

To set the parking brake: Hold the brake pedal down and pull up on the parking brake lever. If the ignition is on, the brake system warning light will come on.



To release the parking brake: Hold the brake pedal down. Pull the parking brake lever up until you can press the release button. Hold the release button in as you move the lever all the way down.

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, see "Towing a Trailer" in the Index.

Shifting into "P" (Park) *(AUTOMATIC TRANSAXLE)*

⚠ CAUTION:

It can be dangerous to get out of your vehicle if the shift lever is not fully in "P" (Park) 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 "P" (Park) position like this:
   - Hold in the button on the lever, and push the lever all the way toward the front of your vehicle.
3. Move the key to "LOCK."
4. Remove the key and take it with you. If you can walk away from your vehicle with the key in your hand, your vehicle is in "P" (Park).

Leaving Your Vehicle with the Engine Running *(AUTOMATIC TRANSAXLE)*

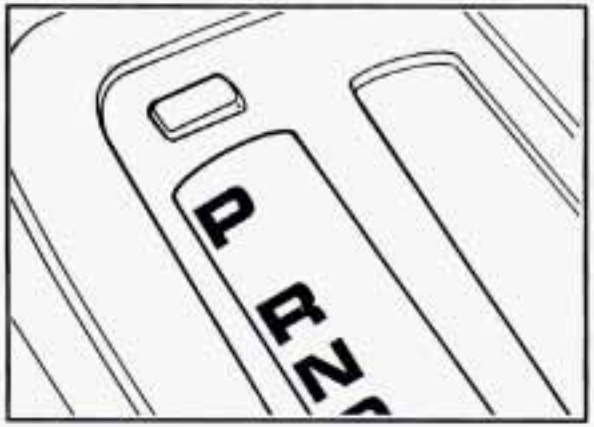
⚠ CAUTION:

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 "P" (Park) 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.

Shifting out of P (Park) *(AUTOMATIC TRANSAXLE)*

Your Geo has a brake-transaxle shift interlock. You have to fully apply your regular brake before you can shift from "P" (Park) when the ignition is in the "ON" position. See "Automatic Transaxle" in the Index.



If you cannot shift out of "P" (Park), ease pressure on the shift lever — push the shift lever all the way into "P" (Park) and release the shift lever button as you maintain brake application. Then press the shift lever button and move the shift lever into the gear you wish.

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

1. Carefully pry the shift lock override cover from the floor shift console using a flat-bladed tool.
2. Insert the end of the flat-bladed tool into the rectangular slot and press down firmly.
3. While maintaining brake application, move the shift lever into the drive gear you want.
4. Have the vehicle fixed as soon as possible.

Parking Your Vehicle (MANUAL TRANSAXLE)

Before you get out of your vehicle, put your manual transaxle in "R" (Reverse) and firmly apply the parking brake.

If your vehicle is equipped to tow a trailer, see "Towing a Trailer" in the Index.

Parking over Things That Burn

⚠ CAUTION:

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

■ *Engine Exhaust*

⚠ CAUTION:

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

You might have exhaust coming in if:

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

If you ever suspect exhaust is coming into your vehicle:

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

Running Your Engine While You're Parked
(AUTOMATIC TRANSAXLE)

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

⚠ CAUTION:

Idling the engine with the air system control 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 "P" (Park) 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 "P" (Park).

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

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

■ *Windows*

Manual Windows

Use the window crank to open and close each window.

Power Windows (Option)

With power windows, switches on the driver's door control each window when the ignition is on. Push down the front of the switch to lower a window and lift the front of the switch to raise a window.

The switch for the driver's window has an Express Down feature. To use the Express Down, push the switch down all the way. Release the switch and the window will lower completely.

You can also open this window any amount by pushing the switch halfway down and releasing it when you want the window to stop.

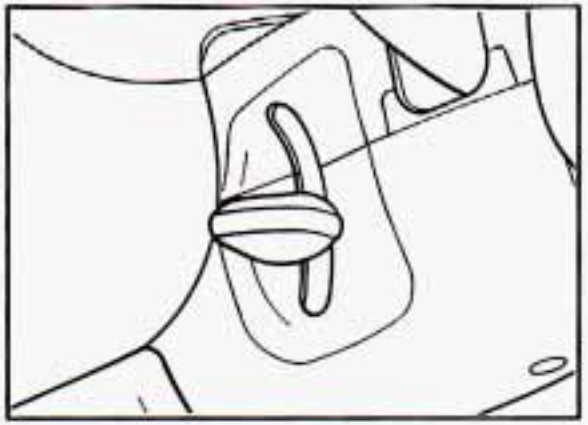
Do not push the switch when the window is in the Express Down mode.

There are individual controls near each window. Push the bottom of the switch to open a window and the top of the switch to raise it.

Press the window lock switch to keep passengers from using their individual window switches. Press the switch again to unlock the windows.

■ *Horn*

To sound the horn, press the horn symbol on your steering wheel.

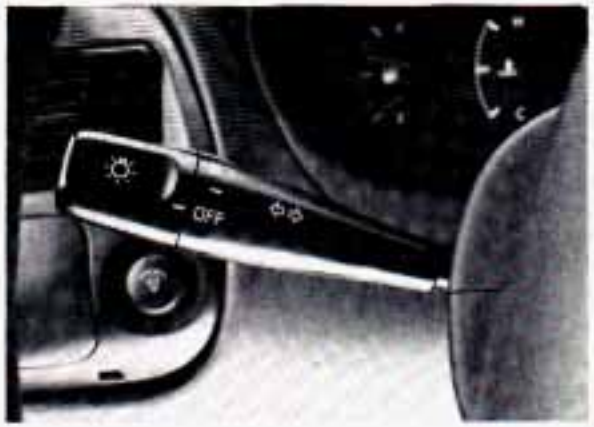


■ *Tilt Wheel (OPTION)*

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 lift the lever. Move the steering wheel to a comfortable level, then release the lever to lock the wheel in place.



■ *The Turn Signal/Lights Control/Headlight Beam Lever*

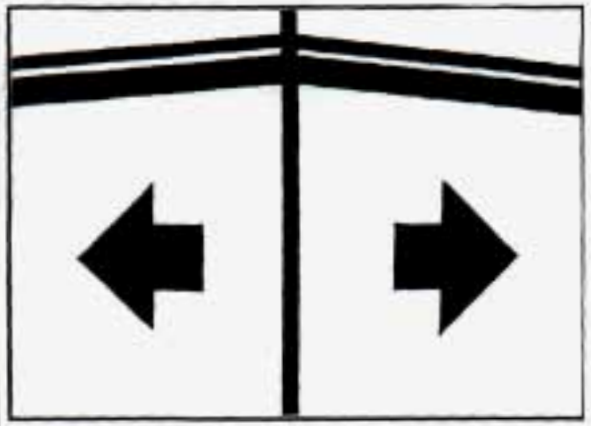
The lever on the left side of the steering column includes your:

- Turn Signal and Lane Change Indicator
- Headlight High/Low Beam and Passing Signal
- Operation of Lights

Turn Signal and Lane Change Indicator

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.



A green 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 green 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 than normal, a signal bulb may be burned out and other drivers won't see your turn signal.

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

Operation of Lights

Although your vehicle's lighting system (headlights, parking lights, fog lamps, sidemarker lights and taillights) meets all applicable federal lighting requirements, certain states and provinces may apply their own lighting regulations that may require special attention before you operate these lights.

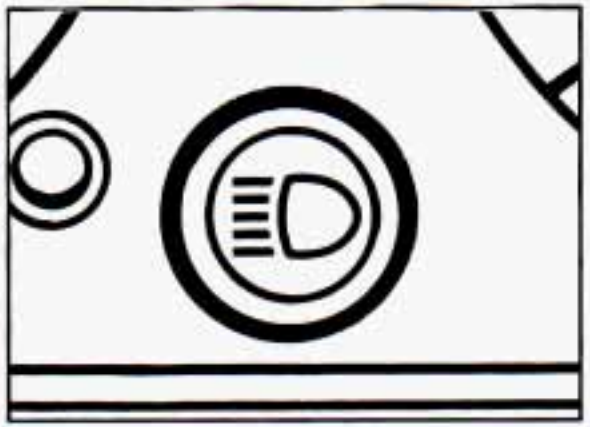
For example, some jurisdictions may require that you operate your fog lamps only when your lower beam headlights are also on, or that headlights be turned on whenever you must use your windshield wipers. In addition, most jurisdictions prohibit driving solely with parking lights, especially at dawn or dusk. It is recommended that you check with your own state or provincial highway authority for applicable lighting regulations.

Turn the outside portion of the lever to control the lights. There are three positions for the light switch.

- **OFF**: All lights are off.
- —: At the middle position, the parking lights, taillights, license plate light and the instrument panel lighting come on. The headlights are off.
- ≡D: The headlights and all other operating lights come on.

Lights On Reminder

If you turn the ignition to "LOCK" or "ACC" and leave the lights on, you'll hear a tone when you open the driver's door.



Headlight High/Low Beam

First, you must have the headlights on. For high beams, push the turn signal lever away from you. When the high beams are on, a blue light on the instrument panel also will be on. It will go off when you switch to low beam. To switch back to low beams, pull the lever toward you.

Flash-to-Pass

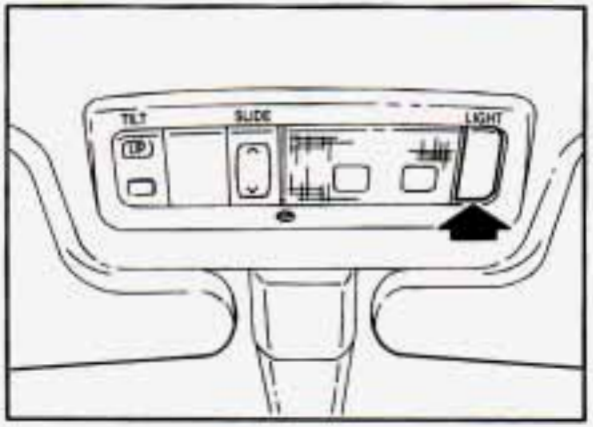
With the lever in the low beam position, pull the lever toward you to momentarily switch to high beams (to signal that you are going to pass). If you have the headlights on, when you release the lever they will return to low beams.

■ *Interior Lights*

Dome Light

This dome light has a three position switch.

- **ON**: The light comes on and stays on whether or not a door is open.
- **OFF**: The light stays off even when a door is open.
- **DOOR**: The light comes on when a door is opened.



Reading Light

If you have a sunroof, you have a reading light near the sunroof switch. Press the switch to turn the light on and press it again to turn it off.

Brightness Control

This knob controls the brightness of your instrument panel lights. Turn the knob clockwise to brighten the lights or counterclockwise to dim them.

■ *Windshield Wiper/Washer Lever*

The lever on the right side of the steering column controls the windshield wipers and washer.

Move the lever to the position you want:

- **OFF**: The wipers are off.
- **INT**: Intermittent wiper operation (if your Geo has this). In light rain or snow, you might want to use this position rather than continuous wiping. You can change the time between wipes by turning the "INT TIME" band. Turn the band toward "S" for a longer delay or toward "F" for a shorter delay.

- **LO**: The wipers will run continuously at low speed.
- **HI**: The wipers will run continuously at high speed.
- **MIST**: (If you have mist-type wipers, the lever doesn't have an "INT" position.) For a single wiping cycle, push the lever to "MIST." Hold it there for a second, then let go. The wipers will stop after one cycle. If you want more cycles, hold the lever at "MIST" longer.

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

Washers

Press the button on the end of the lever to spray washer fluid on the windshield. The spray will continue until you release the button. The wipers will run once.

⚠ 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.

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 3/4 full when it's very cold. This allows for expansion, which could damage the tank if it is completely full.
- Don't use radiator antifreeze in your windshield washer. It can damage your paint.

■ *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, or push the clutch pedal, if you have a manual transaxle, 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.

To Set Cruise Control

1. Push the end of the Cruise Control lever. The "CRUISE" light on the instrument panel will come on.

⚠ CAUTION:

If you leave your Cruise Control switch on when you're not using Cruise, you might move a lever 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 it.

2. Get up to the speed you want.
3. Push the lever down to "SET/COAST" and release it.
4. Take your foot off the accelerator pedal.

To Resume 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. Unless you're going about 25 mph (40 km/h) or less or you slowed down to 10 mph (16 km/h) less than your preset speed, you can press the lever up to "RES/ACC" for about half a second. You'll go right back up to your chosen speed and stay there.

If your preset speed cancels out when it shouldn't, there may be a problem with your Cruise Control. See your dealer.

To Increase Speed While Using Cruise Control

There are two ways to go to a higher speed. Here's the first:

1. Use the accelerator pedal to get to the higher speed.
2. Push the lever to "SET/COAST" and hold it for less than a second. Release the lever and the accelerator pedal.

You'll now cruise at the higher speed.

Here's the second way to go to a higher speed:

- Move the Cruise lever from "ON" to "RES/ACC." Hold it there until you get up to the speed you want, and then release the lever.
- To increase your speed in very small amounts, move the lever to "RES/ACC" for less than half a second and then release it. Each time you do this, your vehicle will go about 1 mph (1.6 km/h) faster.

To Reduce Speed While Using Cruise Control

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

- Push the lever to "SET/COAST" until you reach the lower speed you want, then release it.
- To slow down in very small amounts, push the lever for less than half a second. 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 have to step on the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to keep your speed down. Of course, applying the brake takes you out of Cruise Control. Many drivers find this to be too much trouble and don't use Cruise Control on steep hills.

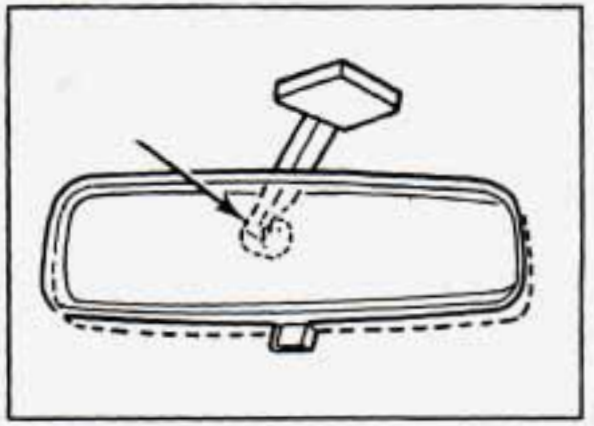
To Get Out of Cruise Control

There are several ways to turn off the Cruise Control:

1. Step lightly on the brake pedal or push the clutch pedal, if you have a manual transaxle.
2. Move the shift lever to "N" (Neutral) if you have an automatic transaxle.
3. Press the Cruise "ON-OFF" button again or pull the lever toward you to cancel.

To Erase Speed Memory

When you turn off the Cruise Control or the ignition, your Cruise Control set speed memory is erased.



■ *Mirrors*

Inside Day/Night Rearview Mirror

An inside rearview mirror is attached to your roof. The mirror has a pivot so that you can adjust it up and down or side to side.

You can adjust the mirror for day or night driving. Pull the tab for night driving to reduce glare. Push the tab for daytime driving.

Convex Outside Mirror

Your right side mirror may be convex.

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

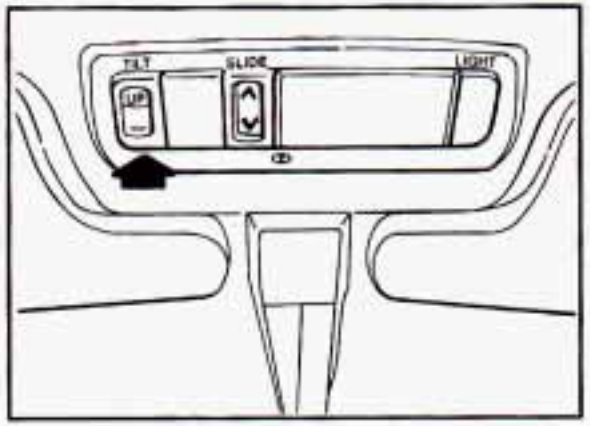
> **⚠ CAUTION:**
>
> If you aren't used to a convex mirror, you can hit another vehicle. A convex mirror can make things (like other vehicles) look farther away than they really are. If you cut too sharply into the right lane, you could hit a vehicle on your right. Check your inside mirror or glance over your shoulder before changing lanes.

Manual Adjust Mirrors

Adjust these mirrors by hand so that you can just see the side of your vehicle when you are sitting in a comfortable driving position.

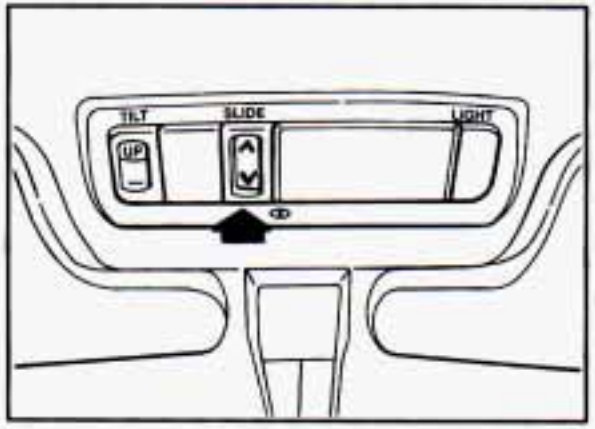
Electric Mirror Control (Option)

The electric mirror control is to the left of your steering wheel. To adjust either mirror, move the switch to "L" (left) or "R" (right). Then use the round touch pad to adjust the mirror. When you are done adjusting the mirrors, move the control back to the center.

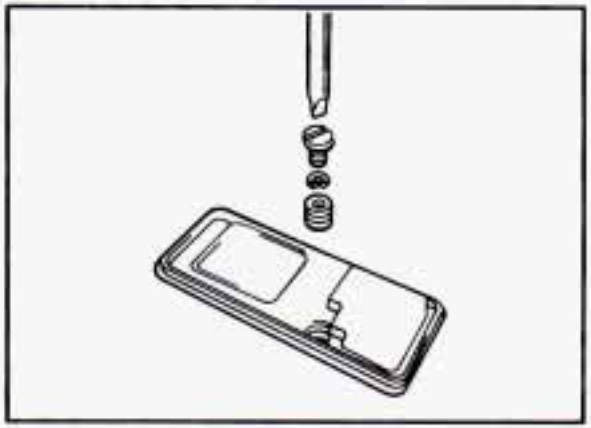


■ *Sunroof*

You can tilt or open your sunroof. To tilt the sunroof, press the switch marked "UP." Press the other end of the switch to lower the sunroof. Your ignition must be on for this switch to work.

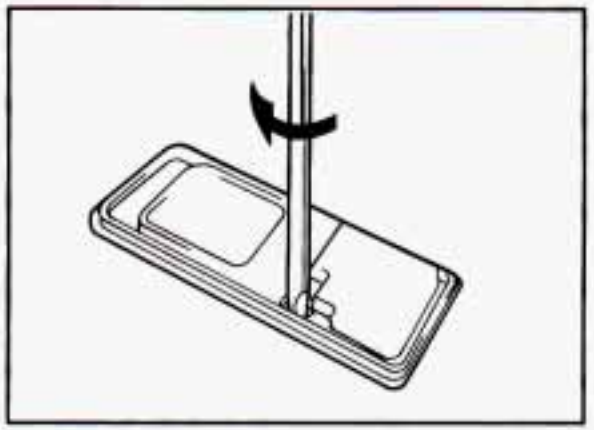


To open the sunroof, push the "SLIDE" arrow that points to the rear of the vehicle. To close it, push the other arrow that points to the front of the vehicle. The sunroof will close partially then stop. Push the arrow again to close it completely. You can open the sunroof to any position.



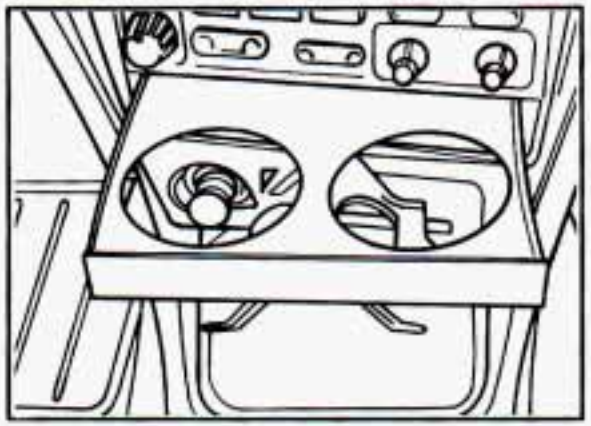
If the sunroof will not close, follow these instructions:

1. Remove the cover screw and take off the sunroof control cover.
2. Carefully remove the inside screw, washers and spacers. Be careful not to lose this screw, the washers or the spacers because the sunroof won't work without them.



3. Close the sunroof by hand as far as it will go. Then find the special crank-shaped screwdriver in your tool bag. It is in your trunk. Insert the screwdriver into the hole and turn it clockwise until the sunroof is closed.

Be sure to have the sunroof checked by your Geo dealer as soon as possible.



■ *Storage and Compartments*

Cupholder

To open the cupholder, push and release the bar and the cupholder will slide out. With cups removed, push it back in to store.

Console Storage Area

A small storage area is in the console between the seats. If there is a cover, lift it up to access the storage area.

Door Storage Compartments

The driver's door has a map/storage compartment. You may also have a storage compartment on your passenger door.

Glove Box

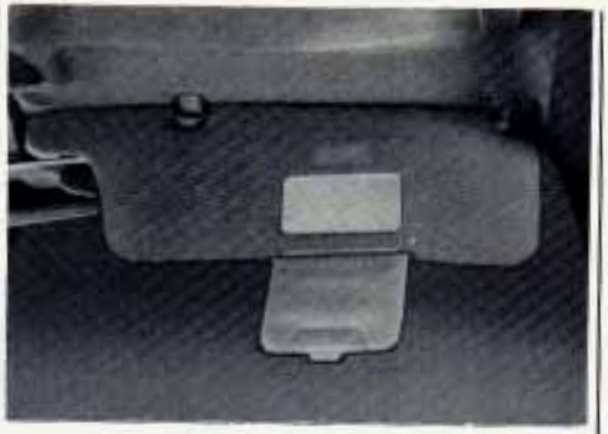
To open the glove box door, squeeze the buttons.

Always keep the glove box door closed while driving.

■ *Sun Visors*

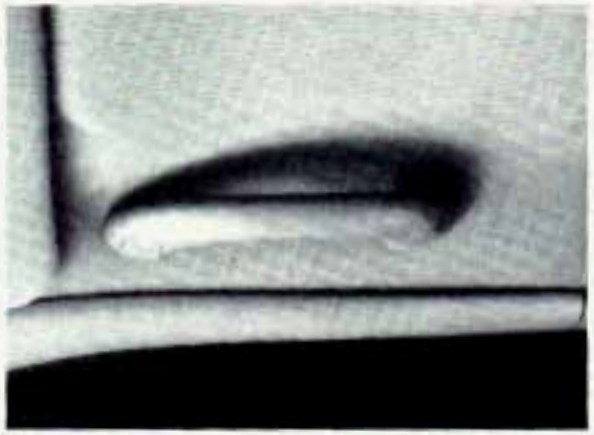
To block out glare, you can swing down the visors.

You can also swing them to the side.



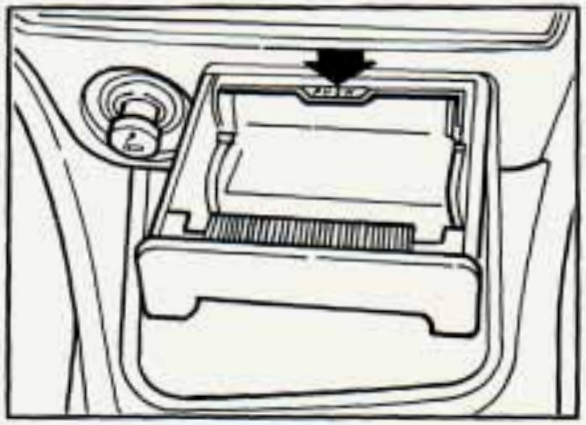
Visor Vanity Mirrors (Option)

Swing down the sun visor. Pull down the cover to expose the vanity mirror.



Passenger Assist Grips

Your Geo may have assist grips. Passengers can use the grips to help keep their balance over rough roads or during sharp turns.



Ashtrays and Lighter

Front Ashtray

Pull the door to open the ashtray. To remove it, push down on the part marked "PUSH" at the back, then pull it out.

Rear Ashtray

You have an ashtray behind the console. Pull the door to open it. To remove it, press the tab and pull it out.

NOTICE:

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

When you are done using the ashtray, push it back to close it.

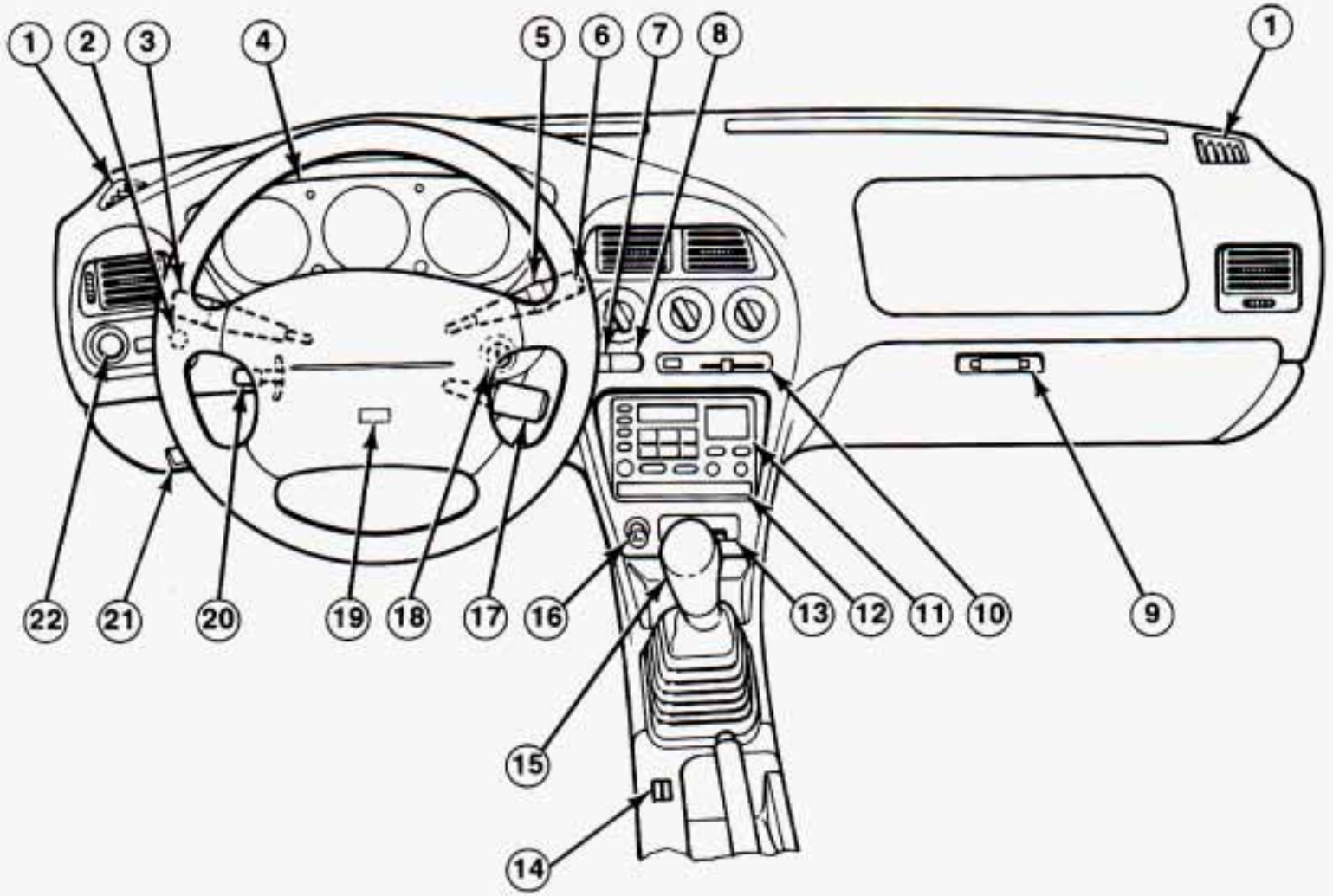
Cigarette Lighter

To use the ligher, push the lighter in all the way and let go. When it's ready, it will pop back by itself. The lighter won't work if the key is in "LOCK."

NOTICE:

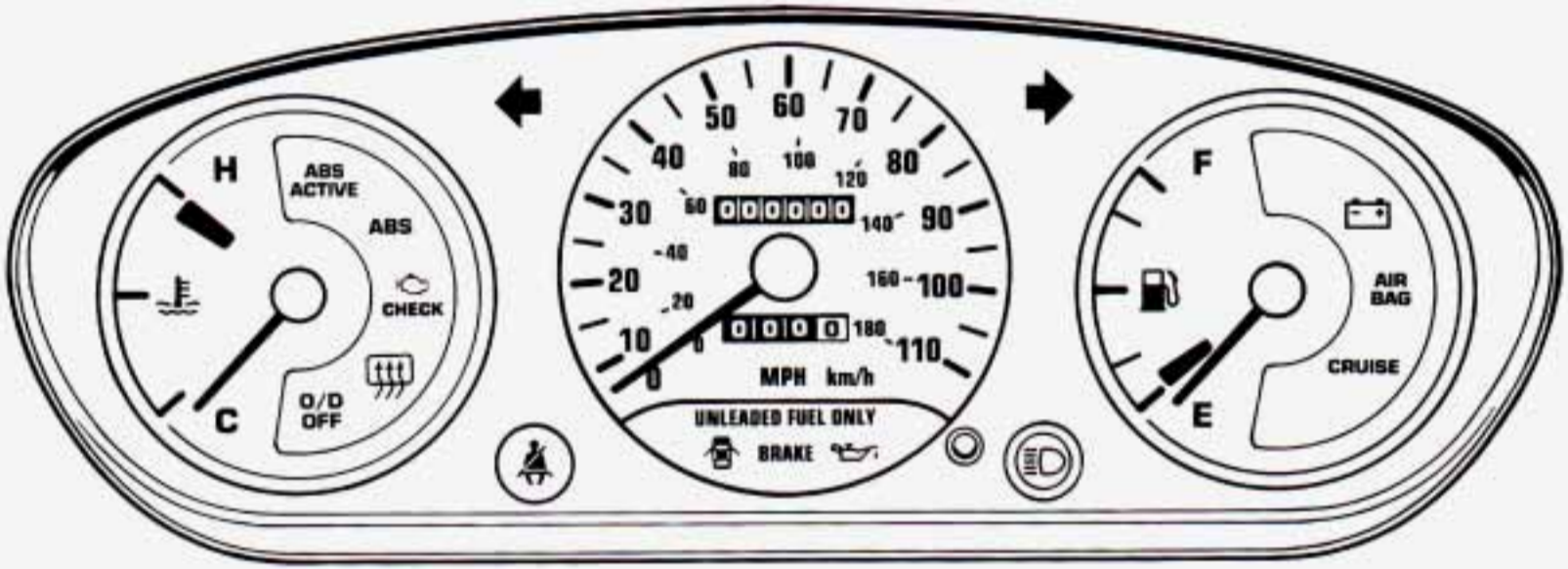
Don't hold a cigarette lighter in with your hand while it is heating. If you do, it won't be able to back away from the heating element when it's ready. That can make it overheat, damaging the lighter and the heating element.

Features and Controls



Instrument Panel

1. Side Window Defogger Vents
2. Brightness Control
3. Turn Signal/Lights Control/Headlight Beam Lever
4. Instrument Cluster
5. Windshield Wiper Control
6. Windshield Washer Button
7. Rear Window Defogger
8. Hazard Warning Flashers
9. Glove Box
10. Comfort Control System
11. Audio System
12. Cupholder
13. Ashtray
14. Coinholder
15. Shift Lever
16. Lighter
17. Cruise Control
18. Ignition Switch
19. Horn
20. Tilt Wheel Lever
21. Hood Release
22. Electric Mirror Control



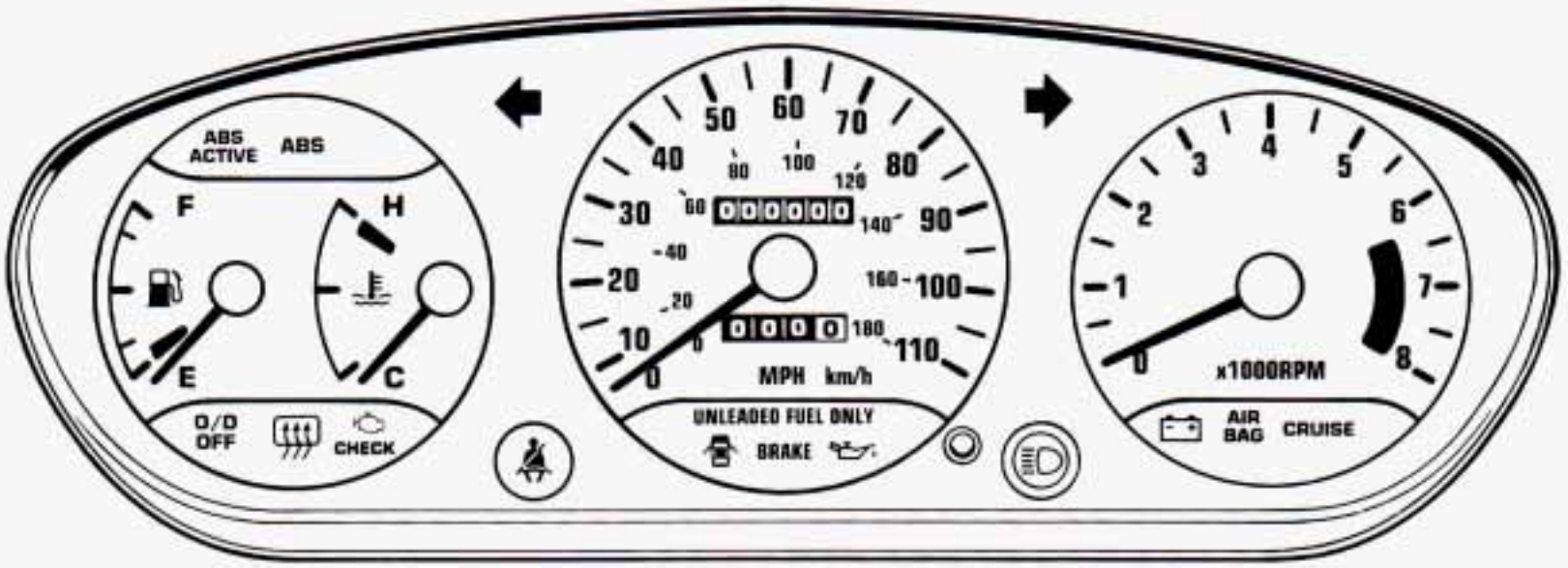
■ *Instrument Panel and Clusters*

Your instrument 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 you have left in your fuel tank and many other things you'll need to know to drive safely and economically.

If you have the optional cluster, your instrument panel gives you additional information. The cluster includes a tachometer.

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 miles.



Trip Odometer

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

To set the trip odometer to zero, press the knob.

Tachometer

The tachometer shows engine speed in thousands of revolutions per minute (rpm).

NOTICE:

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

■ *Warning Lights, Gages and Indicators*

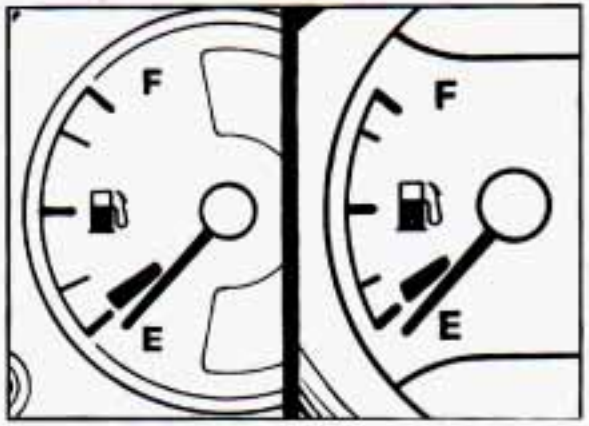
This section describes the warning lights and gages that may be on your vehicle. The pictures will help you locate them.

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 go 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 turn the ignition key 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 the 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.



Fuel Gage

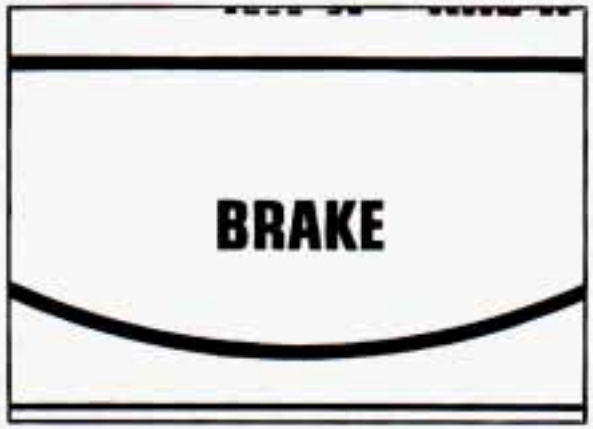
Your fuel gage shows about how much fuel is in your tank. The fuel gage works only when the ignition switch is "ON." When the gage first indicates "E," you still have a little fuel left (about one or two gallons), but you need to get more right away.

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

- At the gas station, the fuel pump shuts off before the gage reads "F."
- It takes more (or less) fuel to fill up than the gage reads. For example, the gage reads half full, but it took more

(or less) than half of the tank's capacity to fill it.

- The gage moves a little when you turn, stop or speed up.
- When you turn the engine off, the gage doesn't go back to "E."



Brake System Warning Light

Your Geo'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.

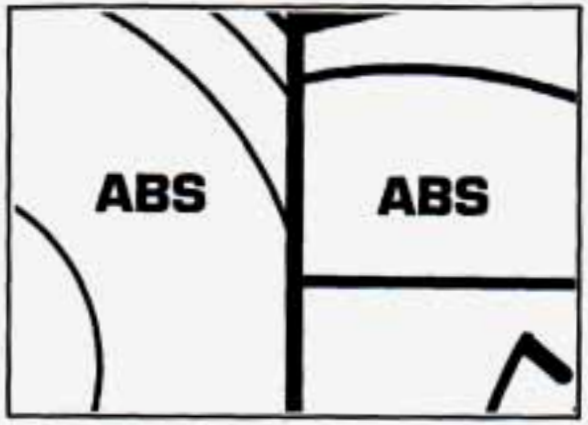
This light should come on as you start the vehicle. If it doesn't come on then, have it fixed so it will be ready to warn you if there's a problem.

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, or if the anti-lock brake system warning light is flashing, have the vehicle towed for service. (See "Anti-Lock Brake System Warning Light" and "Towing Your Vehicle" in the Index.)

⚠ CAUTION:

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

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



Anti-Lock Brake System Warning Light (Option)

With anti-lock, this light will come on when you start your engine and it will stay on for three seconds. That's normal.

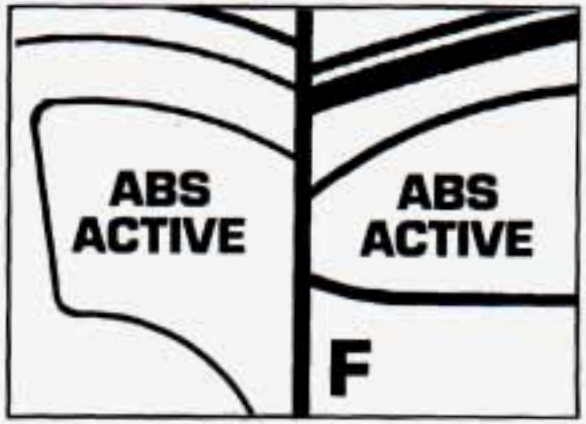
If the light doesn't come on, have it fixed so it will be ready to warn you if there's a problem.

If the light flashes while you're driving, you don't have anti-lock brakes and there's a problem with your regular brakes. 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. Have the vehicle towed for service. (See "Towing Your Vehicle" in the Index.)

⚠ CAUTION:

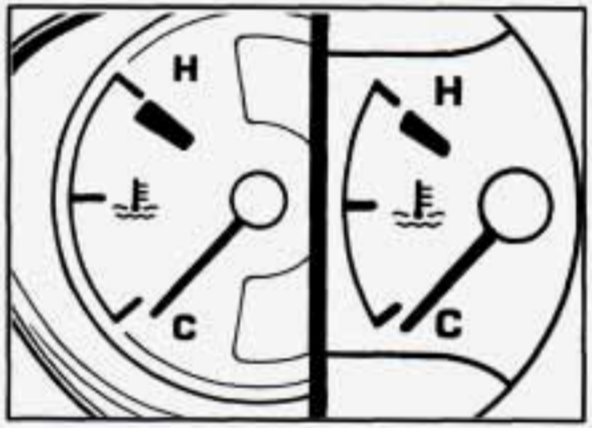
Your regular brake system may not be working properly if the anti-lock brake system warning light is flashing. Driving with the anti-lock brake system warning light flashing can lead to an accident. After you've pulled off the road and stopped carefully, have the vehicle towed for service.

If the anti-lock brake system warning light stays on longer than normal after you've started your engine, turn the ignition off. Or, if the light comes on and stays on when you're driving, stop as soon as possible and turn the ignition off. Then start the engine again to reset the system. If the light still stays on, or comes on again while you're driving, your Geo needs service. If the light is on but not flashing and the regular brake system warning light isn't on, you still have brakes, but you don't have anti-lock brakes.



Anti-Lock Brake System Active Light (Option)

When your anti-lock system is adjusting brake pressure to help avoid a braking skid, the "ABS ACTIVE" light will come on. Slippery road conditions may exist if this light comes on, so adjust your driving accordingly. The light will stay on for a few seconds after the system stops adjusting brake pressure. The "ABS ACTIVE" light will also come on briefly, as a bulb check, when the engine is started.



Engine Coolant Temperature Gage

This gage shows the engine coolant temperature. If the gage pointer moves into the red area, your engine is too hot! It means that your engine coolant has overheated. If you have been operating your vehicle under normal driving conditions, you should pull off the road, stop your vehicle and turn off the engine as soon as possible.

HOT COOLANT CAN BURN YOU BADLY!

In "Problems on the Road," this manual shows what to do. See "Engine Overheating" in the Index.

Engine Oil Pressure Light

If you have a problem with your oil, this light may stay on after you start your engine, or come on when you are driving. This indicates that there is not enough oil pressure to keep your engine properly lubricated and cool. The engine could be low on oil, or have some other oil related problem. Have it fixed right away.

The oil light could also come on in three other situations.

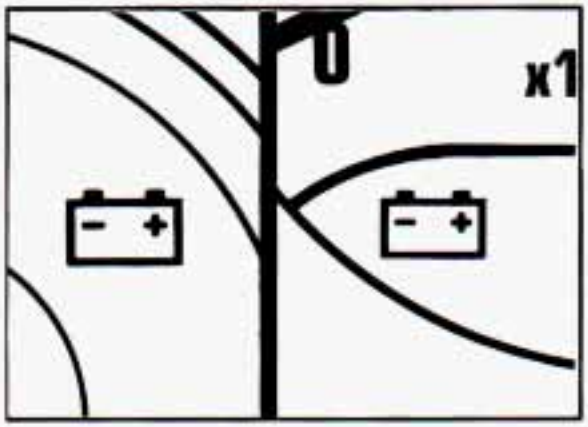
- When the ignition is on but the engine is not running, the light will come on as a test to show you it is working, but the light will go out when you turn the ignition to "START." If it doesn't come on with the ignition on, you may have a problem with the fuse or bulb. Have it fixed right away.
- Sometimes when the engine is idling at a stop, the light may blink on and off. This is normal.
- If you make a hard stop, the light may come on for a moment. This is normal.

⚠ 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:

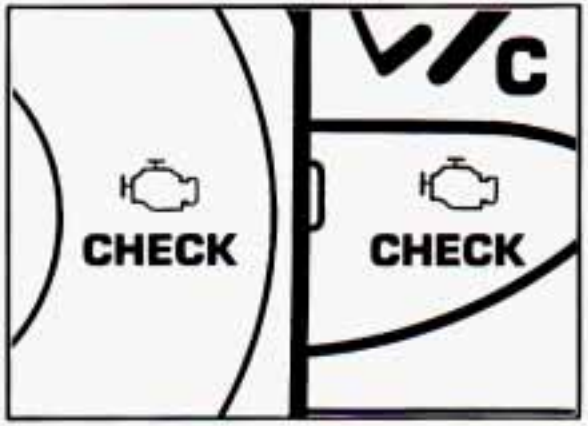
Damage to your engine from neglected oil problems can be costly and is not covered by your warranty.



Charging System Light

This light will come on briefly when you turn on the ignition, but the engine is not running, as a check to show you it is working. Then it should go out when the engine starts. 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 generator 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 charging system light on, be certain to turn off all your accessories, such as the radio and air conditioner.

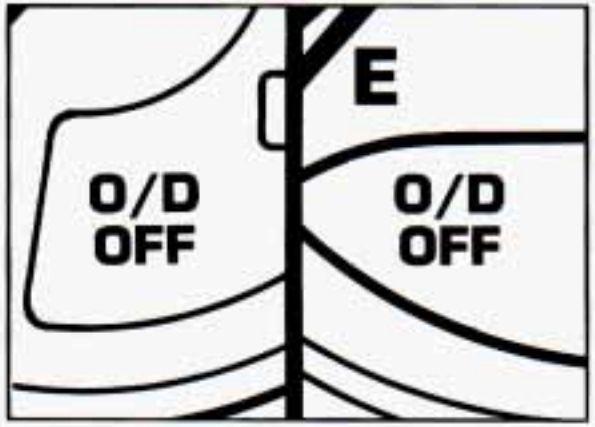


Malfunction Indicator Lamp (Check Engine Light)

A computer monitors operation of your fuel, ignition and emission control systems. This light should come on when the ignition is turned on, but the engine is not running, as a check to show you it is working. If it does not come on at all, have it fixed right away. If it stays on, or comes on while you are driving, the computer is indicating that you have a problem. You should take your vehicle in for service soon.

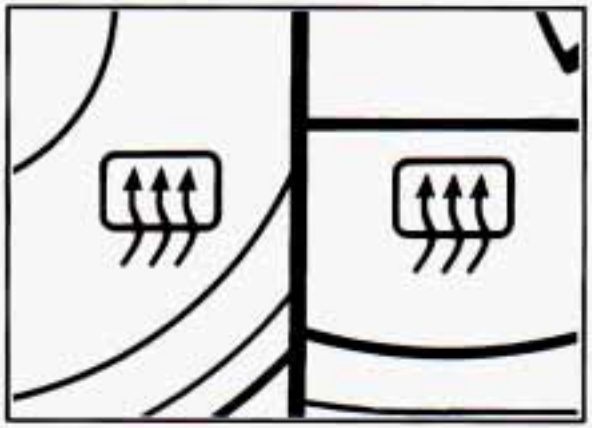
NOTICE:

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



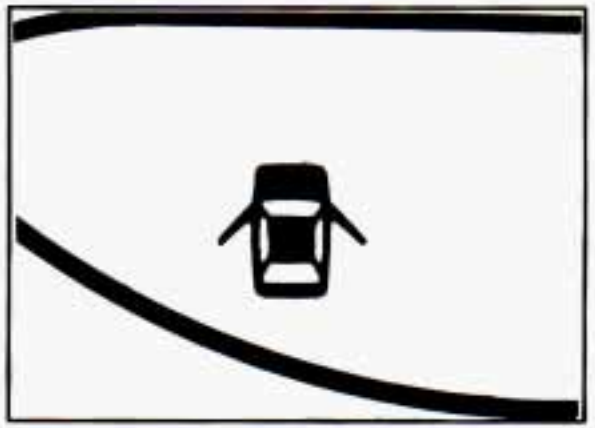
Overdrive Off Light

If you have an automatic transaxle with Overdrive, this light appears on your instrument cluster. The light will come on whenever you turn off the Overdrive.



Rear Window Defogger Light

This light will come on whenever the rear window defogger is on. See "Rear Window Defogger" in the Index.



Door Warning Light

This light stays on if any door is not completely closed. The light should also come on briefly when you turn your key to "START." If the light doesn't come on as it should, have it fixed.

Notes

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

Part 3
Comfort Controls & Audio Systems

Comfort Controls and Audio Systems

■ *Comfort Controls*

With this sytem you can control the heating and ventilation in your Geo. If you have the air conditioning option, you can also control cooling.

Your vehicle also has the flow-through ventilation system described later in this section.

Heater Controls

Airflow Knob

: This position directs the airflow through the instrument panel vents.

: This position directs the airflow through the instrument panel vents and toward the floor.

: This position directs the airflow toward the floor.

: This position directs the airflow toward the floor, the windshield and the side windows.

: This position directs the airflow to the windshield and side windows.

Fan Knob

Turn the knob away from "OFF" to turn the heating system on. Turn the knob toward "HI" to increase the fan's speed.

Temperature Knob

Turn the knob to change the temperature of the air flowing from the system. Turn the knob clockwise to increase the temperature. Turn the knob counter-clockwise to decrease the temperature. The air temperature can't be less than the outside air temperature.

Air Intake Lever

: Choose this position to recirculate the inside air through the comfort control system.

: Choose this position to circulate outside air through the comfort control system.

Heating

1. For the quickest results, move the air intake lever to .
2. Turn the airflow knob to .
3. Turn the temperature knob clockwise for warmer air.
4. Turn the fan knob toward "HI."
5. You should switch to once in a while to avoid stale air and cloudy windows.

Bi-Level

You may want to use bi-level on cool, but sunny days. This setting directs outside air toward your body and warmer air toward your feet.

1. Move the air intake lever to .
2. Turn the airflow knob to .
3. Turn the temperature knob to the white area.
4. Turn the fan knob toward "HI."

Ventilation

For mild the outside temperatures, when very little heating is required, you can still direct outside air through your vehicle.

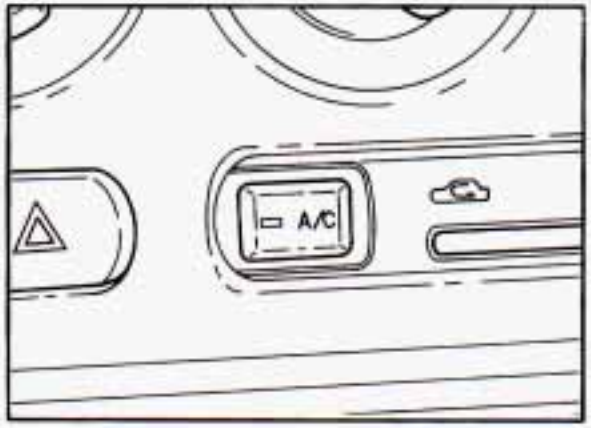
1. Move the air intake lever to .
2. Turn the airflow knob to .
3. Turn the temperature knob to a comfortable setting.
4. Turn the fan knob toward "HI."

Defogging and Defrosting Windows

1. Move the air intake lever to .
2. Turn the airflow knob to to direct air to the windshield vents.
3. Turn the temperature knob clockwise.
4. Turn the fan knob toward "HI."

When the windshield is clear, turn down the fan speed.

To defog the side windows, turn the airflow knob to . If you have the air conditioning option, push the "A/C" button for quicker defogging.



Air Conditioner Controls (OPTION)

The air conditioning system uses the same controls as the heating system. The function of each control is explained under "Heater Controls" in this part. The incoming air is cooled and dehumidified instead of being heated.

A/C: Push this button to change your comfort control system from heating to air conditioning. A light will come on when the air conditioning is on. The "A/C" button can also control the humidity in your vehicle.

Cooling

The air conditioner works best if you keep your windows closed. On very hot days, open the windows just long enough for the hot air to escape.

1. Push the "A/C" button.
2. Move the air intake lever to for normal cooling. For faster cooling move the lever to .
3. Turn the airflow knob to .
4. Turn the temperature control knob counterclockwise.
5. Turn the fan knob to "HI."

Dehumidifying

On days when it is raining or the humidity is high, follow these dehumidifying steps instead of the cooling directions. It will help clean windows that are cloudy with moisture.

1. Push the "A/C" button.
2. Move the air intake lever to .
3. Turn the airflow knob to .
4. Turn the fan knob to "HI."
5. Adjust the temperature knob to a comfortable setting.

Rear Window Defogger (OPTION)

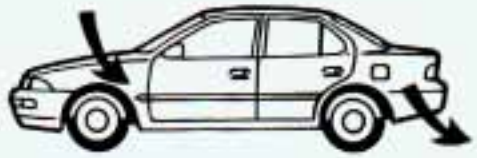
The rear window defogger uses a warming grid to remove fog from the rear window.

Press the switch to turn on the defogger. The defogger will stay on for about 14 minutes, then will shut off automatically. You can also turn it off by pressing the switch again. Use it only when the engine is running. Make sure you turn the defogger off when the window is clear. Leaving the defogger on for a long time could cause the battery to run down, especially during stop and go driving. The defogger is not designed for drying water or melting snow.

Do not attach anything like a temporary vehicle license or a decal across the defogger grid on the rear window.

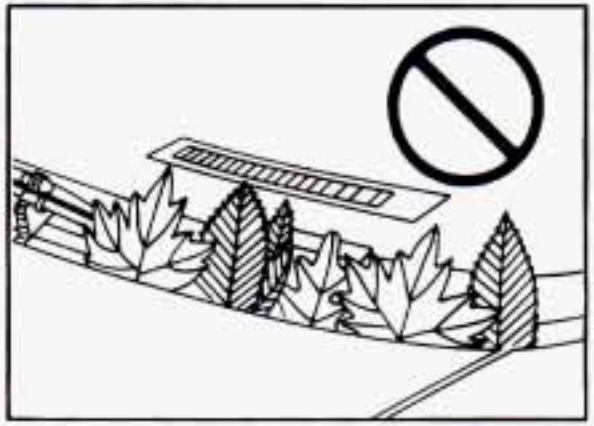
NOTICE:

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



Flow-Through Ventilation System

Your Geo's flow-through ventilation system supplies outside air into the vehicle when it is moving. Outside air will also enter the vehicle when the heater or the air conditioning fan is running and the air intake lever is at  .



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, move the fan lever toward "HI" 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.

■ *Audio Systems*

Your Delco® audio system has been designed to operate easily and give years of listening pleasure. But you will get the most enjoyment out of it if you acquaint yourself with it first. Find out what your Delco® 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.

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, Delco® radio or other systems, and even damage them. And, 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.

Setting the Clock

AM/FM Stereo

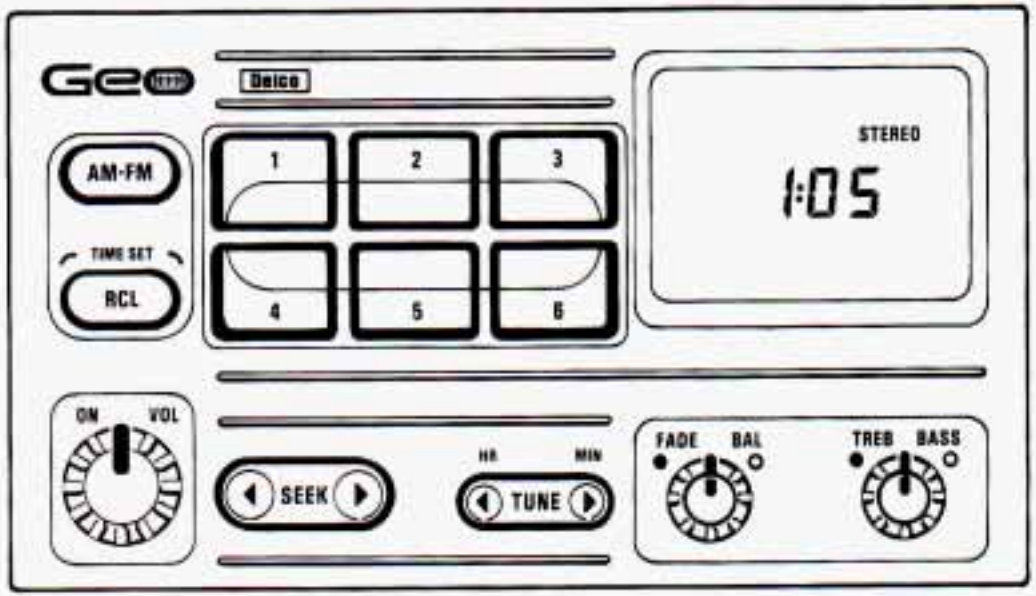
1. Press and hold "RCL" (TIME SET). At the same time, press and hold "TUNE ◄" (HR) until the correct hour appears.
2. Press and hold "RCL" (TIME SET). At the same time press and hold "TUNE ►" (MIN) until the correct minute appears.

AM/FM Stereo with Cassette Tape Player

1. Press and hold "RCL/PROG" (TIME SET). At the same time, press and hold "TUNE ◄" (HR) until the correct hour appears.
2. Press and hold "RCL/PROG" (TIME SET). At the same time press and hold "TUNE ►" (MIN) until the correct minute appears.

AM/FM Stereo with Cassette Tape and Compact Disc Player

1. Press and hold "RCL ▼▲" (TIME SET). At the same time, press and hold "TUNE ◄" (HR) until the correct hour appears.
2. Press and hold "RCL ▼▲" (TIME SET). At the same time press and hold "TUNE ►" (MIN) until the correct minute appears.



AM/FM Stereo

To Play the Radio

Turn the "ON/VOL" knob to turn the system on or off.

Volume: Turn the "ON/VOL" knob to adjust the volume.

Finding a Station

Band: Press "AM-FM" to get AM or FM. The lighted display shows your selection.

Tune: Press "TUNE ►" or "TUNE ◄" to go to a higher or lower station. Press and hold to continue tuning and release when you find your station. The display will show the frequency of each station tuned.

Seek: Press "SEEK ►" or "SEEK ◄" and the radio will tune to the next higher or lower station and stay there.

Pushbuttons: The six pushbuttons let you return to your favorite stations. To set the pushbuttons for up to 12 stations (6 AM and 6 FM), just:

1. Tune in the station.
2. Press and hold one of the pushbuttons for at least two seconds. The sound will go away for a second and will return when the station is stored.

Repeat these steps for each pushbutton.

Setting the Tone

Treble: Turn the "TREB" knob to the right to hear more treble.

Bass: Turn the "BASS" control behind the "TREB" knob to the right to hear more bass.

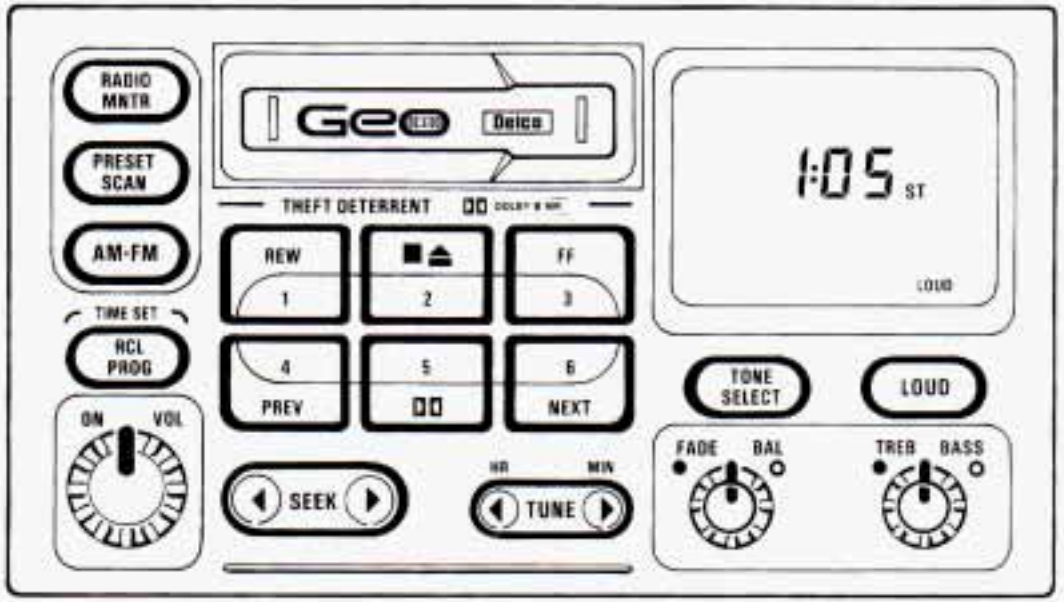
Adjusting the Speakers

Fade: Turn the "FADE" knob to move the sound between the front and rear speakers.

Balance: Turn the "BAL" control behind the "FADE" knob to move the sound between the left and right speakers.

Recall

Press "RCL" to see the station being played for a moment. Or, press it if you want to see the time when the ignition is off.



AM/FM Stereo with Cassette Tape Player

To Play the Radio

Turn the "ON/VOL" knob to turn the system on or off.

Volume: Turn the "ON/VOL" knob to adjust the volume.

Band: Press "AM-FM" to get AM, FM1 or FM2. The lighted display shows your selection.

Tune: Press "TUNE ▶" or "TUNE ◀" to go to higher or lower stations. Press and hold to continue tuning and release when you find your station. The display will show the frequency of each station tuned.

Seek: Press "SEEK ▶" or "SEEK ◀" and the radio will tune to the next higher or lower station and stay there.

Pushbuttons: The six pushbuttons let you return to your favorite stations. To set the pushbuttons for up to 18 stations (6 AM, 6 FM1 and 6 FM2), just:

1. Tune in the station.
2. Press and hold one of the pushbuttons for more than two seconds. The sound will go away for a second and will return when the station is stored.

Repeat these steps for each pushbutton.

Preset Scan: Press the "PRESET SCAN" button to hear each of your preset stations for a few seconds. When you want to stop at a chosen station, press "PRESET SCAN" again.

Setting the Tone

Treble: Turn the "TREB" knob to the right to hear more treble.

Bass: Turn the"BASS" control behind the "TREB" knob to the right to hear more bass.

Treble and bass cannot be adjusted manually when "TONE SELECT" is on.

Loud: To increase the bass tone at low volumes, press the "LOUD" button.

Tone Select: Press "TONE SELECT" to choose preset treble and bass equalization settings designed for "ROCK," "NEWS," "POP," "JAZZ" and "CLASSICAL."

"ROCK" will appear when you first press "TONE SELECT." Each time you press it, another setting will appear on the display. Press it after "CLASSICAL" and tone control will be back to the treble and bass knobs.

Adjusting the Speakers

Fade: Turn the "FADE" knob to move the sound between the front and rear speakers.

Balance: Turn the "BAL" control behind the "FADE" knob to move the sound between the right and left speakers.

Recall

Press "RCL" to see the station being played for a moment. Or, press it if you want to see the time when the ignition is off.

To Play a Cassette Tape

Your tape player is built to work best with tapes that are 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in this player. The longer side with the tape visible should face to the right. If you hear nothing or hear just a garbled sound, it may not be in squarely. Press "■▲" to remove the tape and start over.

Once the tape is playing, use the knobs for volume, fade and balance, just as you do for radio. The lighted arrows show which side of the tape is playing.

Metal Tapes: Your bias is set automatically. When a metal or chrome tape is inserted, "MTL" will appear on the display.

Fast Forward: Press "FF" to advance rapidly to another part of the tape. Press "FF," "RCL/PROG" or "■▲" to return to playing speed.

Rewind: Press "REW" to reverse the tape rapidly. Press "REW," "RCL/PROG" or "■▲" to return to playing speed.

Next Selection: Press "NEXT" to go forward to the beginning of the next selection. Press "NEXT" again or press "RCL/PROG" or "■▲" to cancel this function.

For "NEXT" to work properly, your tape must have at least three or four seconds of silence between each selection.

Previous Selection: Press "PREV" to go back to the beginning of the last selection. Press "PREV" again or press "RCL/PROG" or "■▲" to cancel this function.

Program: Press "RCL/PROG" to switch from one side of the tape to the other. Your cassette tape player can play continuously because the player has an auto-reverse feature.

Noise Reduction: Press DD® to remove noise from Dolby® B NR-encoded tapes.

Dolby® B Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby®" and the DD® symbol are trademarks of Dolby Laboratories Licensing Corporation.

Eject: Press "■▲" to remove the tape and switch to radio.

Radio Monitor: Press the "RADIO MNTR" button to hear the radio when you are fast forwarding or reversing a cassette tape. You can use the "TUNE," "SEEK" and "PRESET-SCAN" buttons while in the radio monitor mode.

Theft Deterrent Feature

The theft deterrent feature for the AM/FM stereo with cassette tape player can be used or ignored. If ignored, the system plays normally. If it is used, your system won't be usable if it's ever stolen.

Setting Your Security Code

The instructions below tell you how to enter a security code into the system. If your vehicle loses battery power for any reason, you must enter the security code again before the system will turn on.

1. Write down any four-digit number and keep it in a safe place.
2. Turn on the ignition switch to the "ACC" or "ON" position.
3. Turn the audio system off.
4. Press the "1" and "4" buttons together. Hold them down until "– – – –" shows on the display.

You are now ready to enter your security code. Don't wait more than 15 seconds between steps.

5. Press "◀ SEEK ▶" or "◀ TUNE ▶" and "0000" will appear on the display.
6. Press "SEEK◀" and hold it until the first digit of your code appears. Release the button.
7. Press "SEEK ▶" and hold it until the second digit of your code appears. Release the button.
8. Press "TUNE ◀" and hold it until the third digit of your code appears. Release the button.
9. Press "TUNE ▶" and hold it until the fourth digit of your code appears. Release the button.
10. Press "AM-FM" after you have checked that the code you entered is the one you wrote down. "rEP" will appear in the display, which means you need to repeat steps 5 through 9.
11. Press "AM-FM" again and the display will now show "SEC."

How to Shut Off the Theft-Deterrent Feature

If your radio is secured ("SEC" shows on the display) and you wish to disable it, enter your security code as follows, pausing no more than 15 seconds between steps:

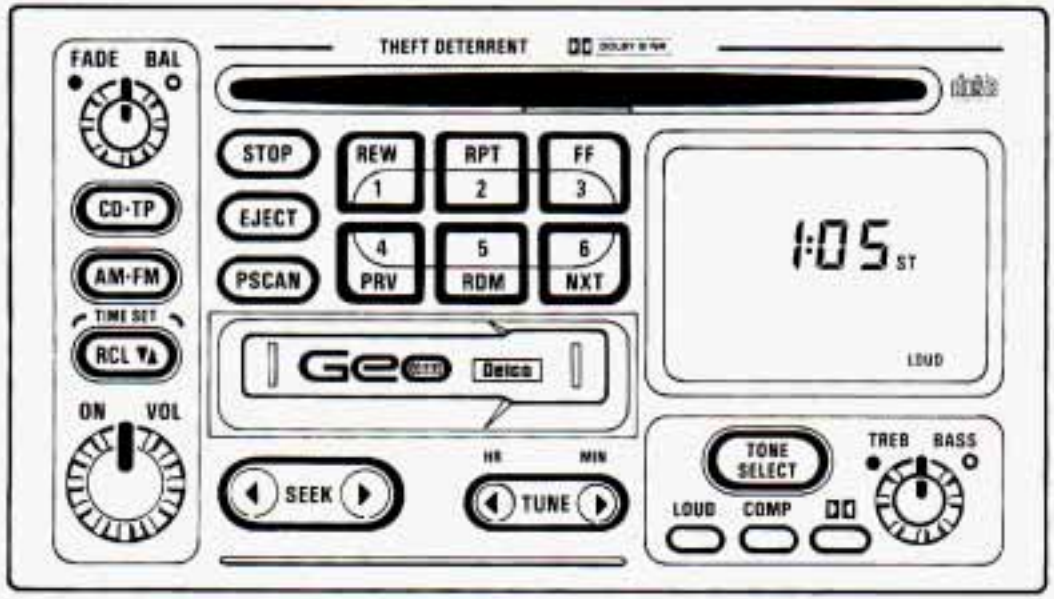
1. Press the "1" and "4" buttons together. Hold them down until "SEC" shows on the display. You are now ready to enter your security code.
2. Press the "SEEK◀" button and hold it until the first digit of your code appears.
3. Press the "SEEK ▶" button and hold it until the second digit of your code appears.
4. Press the "TUNE ◀" button and hold it until the third digit of your code appears.
5. Press the "TUNE ▶" button and hold it until the fourth digit of your code appears.
6. Press "AM-FM" after you have checked that the code you entered matches the one you wrote down. "– – – –" should now appear in the display.

If the code is correct, the radio will now operate. If the code is wrong, "Err" will appear in the display.

To Unlock the System After a Power Loss

If power is disrupted to the radio while in the "SEC" mode, the unit will not work and "LOC" will show on the display whenever the ignition is on. To unlock the unit:

1. Press "◀ SEEK ▶" or "◀ TUNE ▶" and "0000" will appear on the display.
2. Press the "SEEK◀" button and hold it until the first digit of your code appears.
3. Press the "SEEK ▶" button and hold it until the second digit of your code appears.
4. Press the "TUNE ◀" button and hold it until the third digit of your code appears.
5. Press the "TUNE ▶" button and hold it until the fourth digit of your code appears.
6. Press "AM-FM" after you have checked that the code matches the one you wrote down. Now "SEC" will appear on the display.



AM/FM Stereo with Cassette Tape and Compact Disc Player

To Play the Radio

Turn the "ON/VOL" knob to turn the system on or off.

Volume: Turn the "ON/VOL" knob to adjust the volume.

Finding a Station

Band: Press "AM-FM" to get AM, FM1 or FM2. The lighted display shows your selection.

Tune: Press and hold "TUNE ▶" or "TUNE ◀" to go to higher or lower stations. Release when you find your station. The display will show the frequency of each station tuned.

Seek: Press "SEEK ▶" or "SEEK ◀" and the radio will tune to the next higher or lower station and stay there.

Pushbuttons: The six pushbuttons let you return to your favorite stations. To set the pushbuttons for up to 18 stations (6 AM, 6 FM1 and 6 FM2), just:

1. Tune in the station.
2. Press and hold one of the pushbuttons for more than two seconds. The sound will go away for a second and will return when the station is stored.

Repeat these steps for each pushbutton.

Preset Scan: Press the "PSCAN" button to hear each of your preset stations for a few seconds. When you want to stop at a chosen station, press "PSCAN" again.

Setting the Tone

Treble: Turn the "TREB" knob to the right to hear more treble.

Bass: Turn the"BASS" control behind the "TREB" knob to the right to hear more bass.

Loud: To increase the bass tone at low volumes, press the "LOUD" button.

Tone Select: Press "TONE SELECT" to choose preset treble and bass equalization settings designed for "ROCK," "NEWS," "POP," "JAZZ" and "CLASSICAL."

"ROCK" will appear when you first press "TONE SELECT." Each time you press it, another setting will appear on the display. Press it after "CLASSICAL" and tone control will be back to the treble and bass knobs.

Adjusting the Speakers

Fade: Turn the "FADE" knob to move the sound between the front and rear speakers.

Balance: Turn the "BAL" control behind the "FADE" knob to move the sound between the right and left speakers.

Recall

Press "RCL▼▲" to see the station being played for a moment. Or, press it if you want to see the time when the ignition is off.

To Play a Cassette Tape

Your tape player is built to work best with tapes that are 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in this player.

The longer side with the tape visible should face to the right. If you hear nothing or hear just a garbled sound, it may not be in squarely. Press "STOP" or "EJECT" to remove the tape and start over.

Once the tape is playing, use the knobs for volume, fade and balance, just as you do for radio. The lighted arrows show which side of the tape is playing.

Metal Tapes: Your bias is set automatically. When a metal or chrome tape is inserted, "MTL" will appear on the display.

Fast Forward: Press "FF" to advance rapidly to another part of the tape. Press "FF," "RCL▼▲" or "STOP" to return to playing speed.

Rewind: Press "REW" to reverse the tape rapidly. Press "REW," "RCL▼▲" or "STOP" to return to playing speed.

Next Selection: Press "NXT" to go forward to the beginning of the next selection. Press "NXT" again or press "RCL▼▲" or "STOP" to cancel this function.

Previous Selection: Press "PRV" to go back to the beginning of the last selection. Press "PRV" again or press "RCL▼▲" or "STOP" to cancel this function.

For "NXT" and "PRV" to work properly, your tape must have at least three or four seconds of silence between each selection.

Repeat: Press "RPT" to go to the beginning of the selection and play it again. Press "RPT" again to cancel this function.

Noise Reduction: Press DD® to remove noise from Dolby® B NR-encoded tapes.

Dolby® B Noise Reduction manufactured under license from Dolby Laboratories Licensing Corporation.

"Dolby®" and the DD® symbol are trademarks of Dolby Laboratories Licensing Corporation.

Radio Monitor: When playing a tape, press "RDM" during "FF" or "REW" to hear the radio. Press "RDM" again to turn the radio off. During "RDM" operation, only "TUNE," "SEEK" and "PSCAN" will work.

Tape Sides: Press "RCL▼▲" to switch from one side of the tape to the other.

Stop: Press "STOP" to stop the tape and switch to radio.

Eject: Press "EJECT" to remove the tape and switch to radio.

To Play a Compact Disc

Don't use the mini-discs (3″ singles). They won't eject. Use full-size compact discs.

Insert your disc into the CD slot on your audio system.

If the disc comes back out, it could be that:

- The disc is upside down.
- It is dirty, scratched, or wet.
- There is too much moisture in the air. (If there is, wait about one hour and try again.)

If you see "Err" on the display, the disc player is too hot to play the disc. Press "RCL▼▲" to take "Err" off the display.

Track Number and Playing Time: Press "RCL▼▲" to see which track is playing. Press it again within five seconds to see how long it has been playing.

The track number also appears when the disc is inserted or you change the volume.

Previous Track: Press "PRV" to hear a track again. If you hold this button, or press it more than once, the disc will return to previous tracks.

Next Track: Press "NXT" to hear the next track now (instead of waiting until the present track is finished).

If you hold this button, or press it more than once, the disc will advance further.

Rewind: Press and hold "REW" to return rapidly to a favorite passage. Release it to play the passage.

Fast Forward: Press and hold "FF" to advance quickly within a track. Release it to resume playing.

Compression: Press "COMP" to make soft and loud passages more nearly equal in volume.

Repeat: Press "RPT" once to hear a selection over again.

Random: Pressing "RDM" will cause the CD player to play the tracks back in random order. To cancel the random feature, press "RDM," "STOP" or "RPT."

Stop: Press "STOP" to stop playing the disc and switch to radio. Press "STOP" again to restart the disc at the point where it stopped. Press "AM-FM" to cancel CD operation and listen to the radio.

Stop:

CD-Tape: Press "CD-Tape" to switch between playing a tape and a CD when both are inserted.

Eject: Press "EJECT" to eject the disc and the radio will play. The disc will start playing at track 1 when you reinsert it.

Special Eject

If you choose, you can eject only the tape or CD when you have both a CD and a tape in your audio system.

- **CD Only**: To eject only the CD, press "EJECT" and then press "REW."
- **Tape Only**: To eject only the tape, press "EJECT" and then press "PRV."

Theft Deterrent Feature

The theft deterrent feature for the AM/FM stereo with cassette tape and compact disc player can be used or ignored. If ignored, the system plays normally. If it is used, your system won't be usable if it's ever stolen.

Setting Your Security Code

The instructions below tell you how to enter a security code into the system. If your vehicle loses battery power for any reason, you must enter the security code again before the system will turn on.

1. Write down any four-digit number and keep it in a safe place.
2. Turn on the ignition switch to the "ACC" or "ON" position.
3. Turn the audio system off.
4. Press the "1" and "4" buttons together. Hold them down until "– – – –" shows on the display.

You are now ready to enter your security code. Don't wait more than 15 seconds between steps.

5. Press "◀ SEEK ▶" or "◀ TUNE ▶" and "0000" will appear on the display.
6. Press "SEEK◀" and hold it until the first digit of your code appears. Release the button.
7. Press "SEEK ▶" and hold it until the second digit of your code appears. Release the button.
8. Press "TUNE ◀" and hold it until the third digit of your code appears. Release the button.
9. Press "TUNE ▶" and hold it until the fourth digit of your code appears. Release the button.
10. Press "AM-FM" after you have checked that the code you entered is the one you wrote down. "rEP" will appear in the display, which means you need to repeat steps 5 through 9.
11. Press "AM-FM" again and the display will now show "SEC."

How to Shut Off the Theft-Deterrent Feature

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3. Press the "SEEK ▶" button and hold it until the second digit of your code appears.
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5. Press the "TUNE ▶" button and hold it until the fourth digit of your code appears.
6. Press "AM-FM" after you have checked that the code you entered matches the one you wrote down. "– – – –" should now appear in the display.

If the code is correct, the radio will now operate. If the code is wrong, "Err" will appear in the display.

To Unlock the System After a Power Loss

If power is disrupted to the radio while in the "SEC" mode, the unit will not work and "LOC" will show on the display whenever the ignition is on. To unlock the unit:

1. Press "◀ SEEK ▶" or "◀ TUNE ▶" and "0000" will appear on the display.

2. Press the "SEEK◀" button and hold it until the first digit of your code appears.
3. Press the "SEEK ▶" button and hold it until the second digit of your code appears.
4. Press the "TUNE ◀" button and hold it until the third digit of your code appears.
5. Press the "TUNE ▶" button and hold it until the fourth digit of your code appears.
6. Press "AM-FM" after you have checked that the code matches the one you wrote down. Now "SEC" will appear on the display.

Understanding Radio Reception

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). And, tall buildings or hills can interfere with FM signals, causing the sound to come and go.

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.

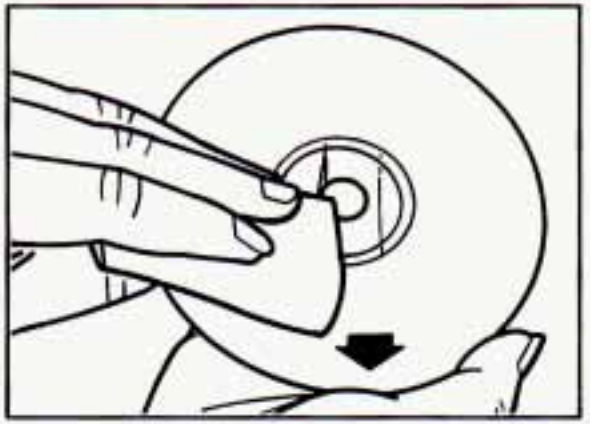
Care of Your Cassette Tape Player

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 cause failure of the tape player.

Your tape player should be cleaned regularly each month or after every 15 hours of use. If you notice a reduction in sound quality, try a known good cassette to see if the tape or the tape player is at fault. If this other cassette has no improvement in sound quality, clean the tape player.

Clean your tape player with a wiping-action, non-abrasive cleaning cassette, and follow the directions provided with it.

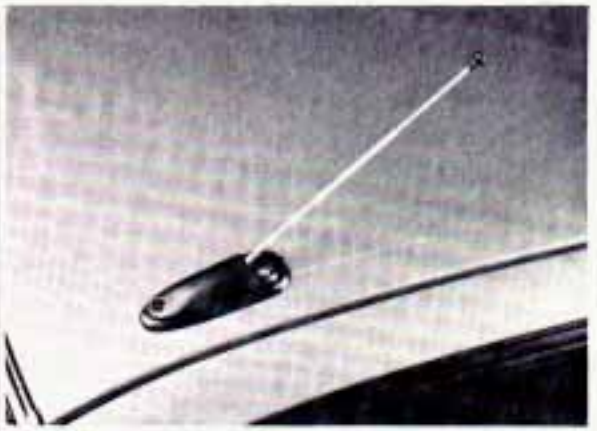
Cassettes are subject to wear and the sound quality may degrade over time. Always make sure that the cassette tape is in good condition before you have your tape player serviced.



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.



Antenna

Use the knob on the end of the antenna to raise the antenna. To lower it, hold the antenna mast near the roof and feed it into the holder. Do not try to lower the antenna using the knob. Keep the antenna mast clean for good performance.

Always lower the antenna before entering a car wash.

Part 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.

Your Driving and the Road

Defensive Driving

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

Please start with a very important safety device in your Geo: 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.

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 takes away three things that anyone needs to drive a vehicle:

- Judgment
- Muscular Coordination
- Vision

Police records show that almost half of all motor vehicle-related deaths involve alcohol — a driver, a passenger or someone else, such as a pedestrian, had been drinking. In most cases, these deaths are the result of someone who was drinking and driving. About 20,000 motor vehicle-related deaths occur each year because of alcohol, and thousands of people are injured.

Just how much alcohol is too much if a person plans to drive? Ideally, no one should drink alcohol and then drive. But if one does, then what's "too much"? It can be a lot less than many might think. Although it depends on each person and situation, here is some general information on the problem.

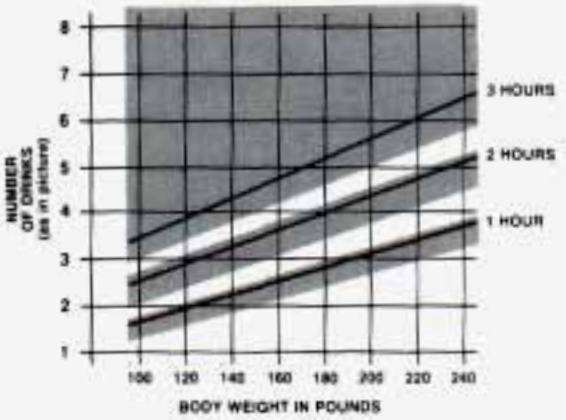
The Blood Alcohol Content (BAC) of someone who is drinking depends upon four things:

- How much alcohol is in the drink.
- 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-pound (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 slightly lower BAC level.

DRINKING THAT WILL RESULT IN A BAC OF .05% IN THE TIME SHOWN



The law in most U.S. states sets the legal limit at a BAC of 0.10 percent. In Canada the limit is 0.08 percent, and in some other countries it's lower than that. 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.

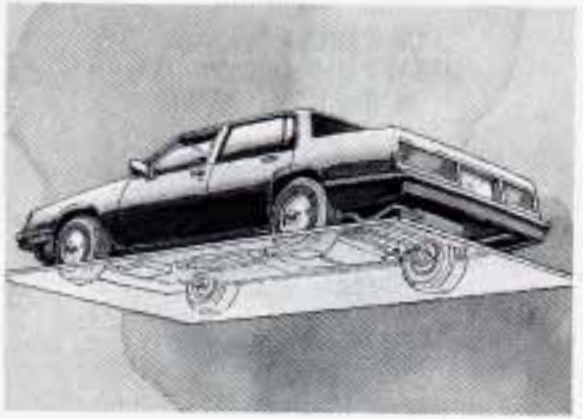
But it's very important to keep in mind that the ability to drive is affected well below a BAC of 0.10 percent. Research shows that the driving skills of many people are impaired at a BAC approaching 0.05 percent, and that the effects are worse at night. All drivers are impaired at BAC levels above 0.05 percent. Statistics show that the chance of being in an accident increases sharply for drivers who have a BAC of 0.05 percent or above. A driver with a BAC level of 0.06 percent (three beers in one hour for a 180-pound or 82 kg person) has doubled his or her chance of having an accident. At a BAC level of 0.10 percent, the chance of that driver having an accident is six times greater; at a level of 0.15 percent, the chances are twenty-five times greater! And, 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 a higher 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. That's especially true for brain, spinal cord and heart injuries. That means that if anyone who has been drinking — driver or passenger — is in a crash, the chance of being killed or permanently disabled is higher than if that person had not been drinking. And we've already seen that the chance of a crash itself is higher for drinking drivers.

⚠ CAUTION:

Drinking and then driving is very dangerous. Your reflexes, perceptions, and judgment will be affected by even a small amount of alcohol. You could have a serious — or even fatal — accident 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; and the condition of your brakes.

Avoid needless heavy braking. Some people drive in spurts — heavy acceleration followed by heavy braking — rather than keeping pace with traffic.

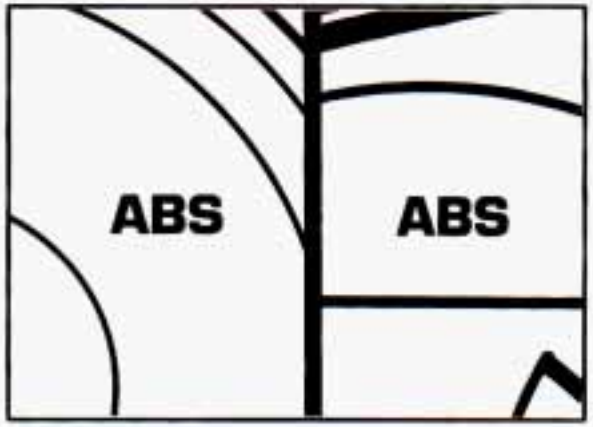
This is a mistake. Your brakes may not have time to cool between hard stops. Your brakes will wear out much faster if you do a lot of heavy braking. If you keep pace with the traffic and allow realistic following distances, you will eliminate a lot of unnecessary braking. That means better braking and 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 (Option)

If your Geo has this system, your Geo has an advanced electronic braking system that will help prevent skidding.

If you have an anti-lock brake system (ABS), the brake pedal will say so.



And this light on the instrument panel will go on when you start your vehicle.

When you start your vehicle, or when you begin to drive away, you may hear a momentary motor or clicking noise. And you may even notice that your brake pedal moves a little while this is going on. This is the ABS system testing itself. If there's a problem with the anti-lock brake system, the anti-lock brake system warning light will stay on or flash. 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 the 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. 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.

To Use Anti-Lock

Don't pump the brakes. Just hold the brake pedal down and let anti-lock work for you. You may feel the system working, or you may notice some noise, but this is normal. When your anti-lock system is adjusting brake pressure to help avoid a braking skid, the "ABS ACTIVE" light will come on. See "Anti-Lock Brake System Active Light" in the Index.

Braking in Emergencies

At some time, nearly every driver gets into a situation that requires hard braking.

If you have anti-lock, you can steer and brake at the same time. However, if you don't have anti-lock, your first reaction – to hit the brake pedal hard and hold it down – may be the wrong thing to do. Your wheels can stop rolling. Once they do, the vehicle can't respond to your steering. Momentum will carry it in whatever direction it was headed when the wheels stopped rolling. That could be off the road, into the very thing you were trying to avoid, or into traffic.

If you don't have anti-lock, use a "squeeze" braking technique. This will give you maximum braking while maintaining steering control. You do this by pushing on the brake pedal with steadily increasing pressure. In an emergency you will probably want to "squeeze" the brakes hard without locking the wheels. If you hear or feel the wheels sliding, ease off the brake pedal. This will help you retain steering control. (If you do have anti-lock, it's different: see the Index under "Anti-Lock Brakes.") In many emergencies, steering can help you more than even the very best braking.

Steering

Power Steering (Option)

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 apply the brakes. Both control systems — steering and braking — have to do their work where the tires meet the road. Unless you have four-wheel anti-lock brakes, adding the hard braking can demand too much of those places. You can lose control.

The same thing can happen if you're steering through a sharp curve and you suddenly accelerate. Those two control systems — steering and acceleration — can overwhelm those places where the tires meet the road and make you lose control.

What should you do if this ever happens? Ease up on the brake or 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

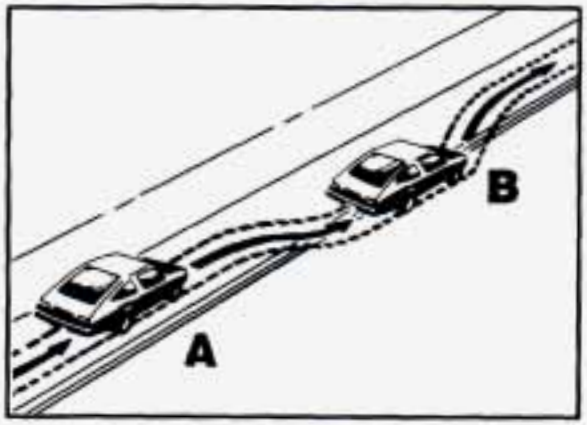
There are times when steering can be more effective than braking. For example, you come over a hill and find a truck stopped in your lane, or a car suddenly pulls out from nowhere, or a child darts out from between parked cars and stops right in front of you. You can avoid these problems by braking — 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 Geo can perform very well in emergencies like these. First apply your

brakes – but, unless you have anti-lock, not enough to lock your wheels. 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 sometime that your right wheels have dropped off the edge of a road onto the shoulder (A) 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 1/4 turn (B) 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 lights 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 Geo'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.

If you have the anti-lock braking system, remember: It helps avoid only the braking skid. If you do not have anti-lock, then in a braking skid (where the wheels are no longer rolling), release enough pressure on the brakes to get the wheels rolling again. This restores steering control. Push the brake pedal down steadily when you have to stop suddenly. As long as the wheels are rolling, you will have steering control.

■ *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 headlights 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 headlights 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.

Night Vision

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 headlights, but they also make a lot of things invisible.

You can be temporarily blinded by approaching lights. 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 headlights), slow down a little. Avoid staring directly into the approaching lights.

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 headlights 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 headlights 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 the Rain*

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. 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 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 haven't 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.

Some Other Rainy Weather Tips

- Turn on your low-beam headlights – not just your parking lights – to help make you more visible to others.
- 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 section, "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 Geo 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?
- **Lights:** Are they all working? Are the lenses clean?
- **Tires:** They are vitally important to a safe, trouble-free trip. Is the tread good enough for long-distance driving? Are the tires all inflated to the recommended pressure?
- **Weather Forecasts:** What's the weather outlook along your route? Should you delay your trip a short time to avoid a major storm system?
- **Maps:** Do you have up-to-date maps?

Highway Hypnosis

Is there actually such a condition as "highway hypnosis"? Or is it just plain falling asleep at the wheel? Call it highway hypnosis, lack of awareness, or whatever.

There is something about an easy stretch of road with the same scenery, along with the hum of the tires on the road, the drone of the engine, and the rush of the wind against the vehicle that can make you sleepy. Don't let it happen to you! If it does, your vehicle can leave the road in less than a second, and you could crash and be injured.

What can you do about highway hypnosis? First, be aware that it can happen.

Then here are some tips:

- Make sure your vehicle is well ventilated, with a comfortably cool interior.
- Keep your eyes moving. Scan the road ahead and to the sides. Check your rearview mirrors and your instruments frequently.
- If you get sleepy, pull off the road into a rest, service, or parking area and take a nap, get some exercise, or both. For safety, treat drowsiness on the highway as an emergency.

■ *Hill and Mountain Roads*

Driving on steep hills or mountains is different from driving in flat or rolling terrain. If you drive regularly in steep country, or if you're planning to visit there, here are some tips that can make your trips safer and more enjoyable.

- Keep your vehicle in good shape. Check all fluid levels and also the brakes, tires, cooling system and transaxle. These parts can work hard on mountain roads.
- Know how to go down hills. The most important thing to know is this: let your engine do some of the slowing down. Shift to a lower gear when you go down a steep or long hill.

⚠ CAUTION:

If you don't shift down, your brakes could get so hot that they wouldn't work well. You would then have poor braking or even none going down a hill. You could crash. Shift down to let your engine assist your brakes on a steep downhill slope.

⚠ CAUTION:

Coasting downhill in "N" (Neutral) 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 could crash. Always have your engine running and your vehicle in gear when you go downhill.

- Know how to go uphill. You may want to shift down to a lower gear. The lower gears help cool your engine and transaxle, and you can climb the hill better.
- Stay in your own lane when driving on two-lane roads in hills or mountains. Don't swing wide or cut across the center of the road. Drive at speeds that let you stay in your own lane.
- As you go over the top of a hill, be alert. There could be something in your lane, like a stalled car or an accident.
- You may see highway signs on mountains that warn of special problems. Examples are long grades, passing or no-passing zones, a falling rocks area, or winding roads. Be alert to these and take appropriate action.

■ *Winter Driving*

Here are some tips for winter driving:

- Have your Geo in good shape for winter. Be sure your engine coolant mix is correct.
- You may want to put winter emergency supplies in your trunk.

Include an ice scraper, a small brush or broom, a supply of windshield washer fluid, a rag, some winter outer clothing, a small shovel, a flashlight, a red cloth, and a couple of reflective warning triangles. And, if you will be driving under severe conditions, include a small bag of sand, a piece of old carpet or a couple of burlap bags to help provide traction. Be sure you properly secure these items in your vehicle.

Driving on Snow or Ice

Most of the time, those places where your tires meet the road probably have good traction.

However, if there is snow or ice between your tires and the road, you can have a very slippery situation. You'll have a lot less traction or "grip" and will need to be very careful.

What's the worst time for this? "Wet ice." Very cold snow or ice can be slick and hard to drive on. But wet ice can be even more trouble because it may offer the least traction of all. You can get "wet ice" when it's about freezing (32°F; 0°C) and freezing rain begins to fall. Try to avoid driving on wet ice until salt and sand crews can get there.

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

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.

Unless you have the anti-lock braking system, you'll want to brake very gently, too. (If you do have anti-lock, see "Anti-Lock" in the Index. This system improves your vehicle's ability to make a hard stop on a slippery road.) Whether you have the anti-lock braking system or not, you'll want to begin stopping sooner than you would on dry pavement. Without anti-lock brakes, if you feel your vehicle begin to slide, let up on the brakes a little. Push the brake pedal down steadily to get the most traction you can.

Remember, unless you have anti-lock, if you brake so hard that your wheels stop rolling, you'll just slide. Brake so your wheels always keep rolling and you can still steer.

- Whatever your braking system, 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 headlights. Let the heater run for awhile.

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.

■ *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 Geo 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 section, and see your Geo dealer for important information about towing a trailer with your vehicle.

Your vehicle can tow a trailer. To identify what the vehicle trailering capacity is for your vehicle, you should read the information in "Weight of the Trailer" that appears later in this section. But trailering is different than just driving your vehicle by itself. Trailering means changes in handling, durability, and fuel economy. Successful, safe trailering takes correct equipment, and it has to be used properly.

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

Load-pulling components such as the engine, transaxle, wheel assemblies, and tires are forced to work harder against the drag of the added weight. The engine is required to operate at relatively higher speeds and under greater loads, generating extra heat. What's more, the trailer adds considerably to wind resistance, increasing the pulling requirements.

If You Do Decide to Pull a Trailer

If you do, here are some important points.

- There are many different laws, including speed limit restrictions, having to do with trailering. Make sure your rig will be legal, not only where you live but also where you'll be driving. A good source for this information can be state or provincial police.
- Consider using a sway control. You can ask a hitch dealer about sway controls.
- Don't tow a trailer at all during the first 1,000 miles (1 600 km) your new vehicle is driven. Your engine, axle or other parts could be damaged.
- Then, during the first 500 miles (800 km) that you tow a trailer, don't drive over 50 mph (80 km/h) and don't make starts at full throttle. This helps your engine and other parts of your vehicle wear in at the heavier loads.

Three important considerations have to do with weight:

Weight of the Trailer

How heavy can a trailer safely be?

It should never weigh more than 1,500 pounds (680 kg). But even that can be too heavy.

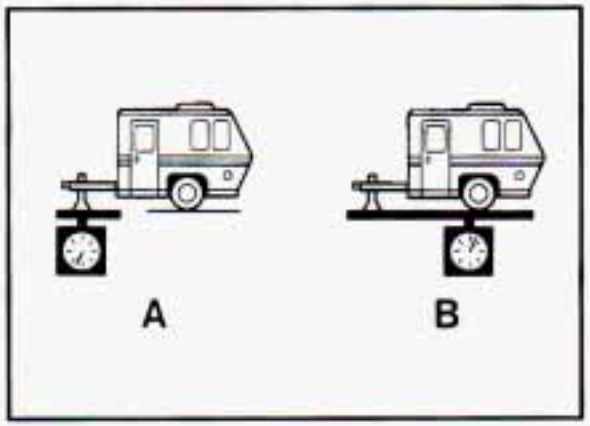
It depends on how you plan to use your rig. For example, speed, altitude, road grades, outside temperature and how much your vehicle is used to pull a trailer are all important. And, it can also depend on any special equipment that you have on your vehicle.

You can ask your dealer for our trailering information or advice, or you can write us at:

Customer Assistance Department
Chevrolet/Geo
P.O. Box 7047
Troy, MI 48007-7047

In Canada, write to:

General Motors of Canada Limited
Customer Assistance Center
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 capacity weight of your vehicle. The capacity weight 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 subtract the tongue load from your vehicle's capacity weight 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 "dead-weight" hitch, the trailer tongue (A) should weigh 10% of the total loaded trailer weight (B). If you have a "weight-distributing" hitch, the trailer tongue (A) should weight 12% 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 limit for cold tires. You'll find these numbers on the Certification label at the rear of the driver's door opening or see "Loading Your Vehicle" in the Index. Then be sure you don't go over the GVW limit for your vehicle.

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:

- 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.
- The bumpers on your vehicle are not intended for hitches. Do not attach rental hitches or other bumper-type hitches to them. Use only a frame-mounted hitch that does not attach to the bumper.

Safety Chains

You should always attach chains between your vehicle and your trailer. Cross the safety chains under the tongue of the trailer so that the tongue will not drop to the road if it becomes separated from the hitch. Instructions about safety chains may be provided by the hitch manufacturer or by the trailer manufacturer. Follow the manufacturer's recommendation for attaching safety chains. Always leave just enough slack so you can turn with your rig. And, never allow safety chains to drag on the ground.

Trailer Brakes

Does your trailer have its own brakes? Be sure to read and follow the instructions for the trailer brakes so you'll be able to

install, adjust and maintain them properly. If your vehicle has anti-lock brakes, don't try to tap into your vehicle's brake system. If you do, both brake systems won't work well or at all.

Even if your vehicle doesn't have anti-lock brakes, 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 brake 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 upper rear master cylinder port. 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

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, safety chains, electrical connector, lights, 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 lights 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

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 a different turn signal flasher and extra wiring. The green arrows on your instrument panel will flash whenever you signal a turn or lane change. Properly hooked up, the trailer lights will also

flash, telling other drivers you're about to turn, change lanes or stop.

When towing a trailer, the green 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.

On a long uphill grade, shift down and reduce your speed to 45 mph (70 km/h) to reduce the possibility of engine and transaxle overheating.

If you are towing a trailer that weighs more than 1,000 pounds (450 kg), and you have an automatic transaxle with Overdrive, you may prefer to drive in "D" instead of Overdrive (or, as you need to, a lower gear). Or, if you have a manual transaxle with fifth gear, it's better not to use fifth gear. Just drive in fourth gear (or, as you need to, a lower gear).

Parking on Hills

You really should not park your vehicle, with a trailer attached, on a hill. If something goes wrong, your rig could start to move. People can be injured, and both your vehicle and the trailer can be damaged.

But if you ever have to park your rig on a hill, here's how to do it:

1. Apply your regular brakes, but don't shift into "P" (Park) yet, or into gear for a manual transaxle.
2. Have someone place chocks under the trailer wheels.
3. When the wheel chocks are in place, release the regular brakes until the chocks absorb the load.
4. Reapply the regular brakes. Then apply your parking brake, and then shift to "P" (Park), or "R" (Reverse) for a manual transaxle.
5. Release the regular brakes.

When You Are Ready to Leave after Parking on a Hill

1. Apply your regular brakes and hold the pedal down while you:
   - Start your engine;
   - Shift into a gear; and
   - Release the parking brake.
2. Let up on the brake pedal.
3. Drive slowly until the trailer is clear of the chocks.
4. Stop and have someone pick up and store the chocks.

Maintenance When Trailer Towing

Your vehicle will need service more often when you're pulling a trailer. See the Maintenance Schedule for more on this. Things that are especially important in trailer operation are automatic transaxle fluid (don't overfill), engine oil, belts, cooling system, and brake adjustment. 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.

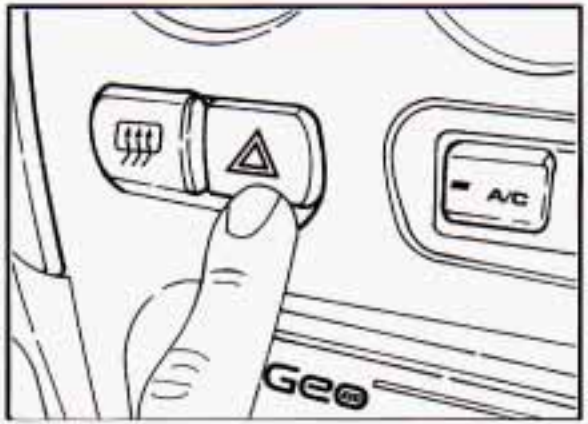
Check periodically to see that all hitch nuts and bolts are tight.

Part 5
Problems on the Road

Here you'll find what to do about some problems that can occur on the road.

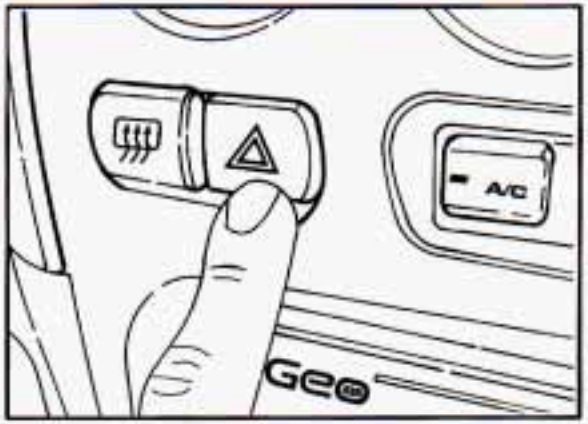
■ *Hazard Warning Flashers*

Your hazard warning flashers let you warn others. They also let police know you have a problem. Your front and rear turn signal lights will flash on and off.



Press the button to make your front and rear turn signal lights 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, push the button again.

When the hazard warning flashers are on, your turn signals won't work.

Other Warning Devices

If you carry reflective triangles, you can set one up at the side of the road about 300 feet (100 m) behind your vehicle.

■ *Jump Starting*

If your battery has run down, you may want to use another vehicle and some jumper cables to start your Geo. But please follow the steps below to do it safely.

⚠ CAUTION:

Batteries can hurt you. They can be dangerous because:

- They contain acid that can burn you.
- They contain gas that can explode or ignite.
- They contain enough electricity to burn you.

If you don't follow these steps exactly, some or all of these things can hurt you.

NOTICE:

Ignoring these steps could result in costly damage to your vehicle that wouldn't be covered by your warranty.
Trying to start your Geo by pushing or pulling it could damage your vehicle, even if you have a manual transaxle. And if you have an automatic transaxle, it won't start that way.

To Jump Start Your Geo:

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 Geo, and the bad grounding could damage the electrical systems.
3. Turn off the ignition on both vehicles. Turn off all lights that aren't needed, and radios. This will avoid sparks and help save both batteries. And 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:

An electric fan can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.

⚠ CAUTION:

Using a match near a battery can cause battery gas to explode. People have been hurt doing this, and some have been blinded. Use a flashlight if you need more light.

Be sure the battery has enough water. You don't need to add water to the Delco Freedom® 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.

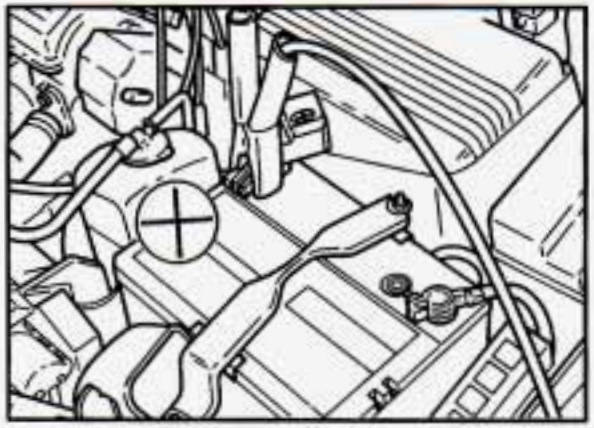
Battery fluid contains acid that can burn you. Don't get it on you. If you accidentally get it in your eyes or on your skin, flush the place with water and get medical help immediately.

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.

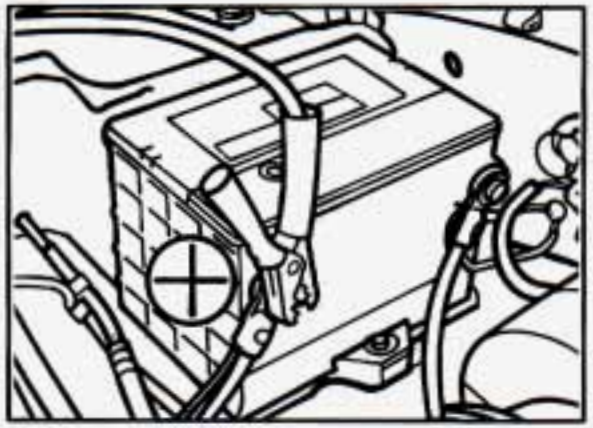
   Before you connect the cables, here are some things you should know. Positive (+) will go to positive (+) and negative (–) will go to negative (–) or a metal engine part. Don't connect (+) to (–) or you'll get a short that would damage the battery and maybe other parts, too.

⚠ CAUTION:

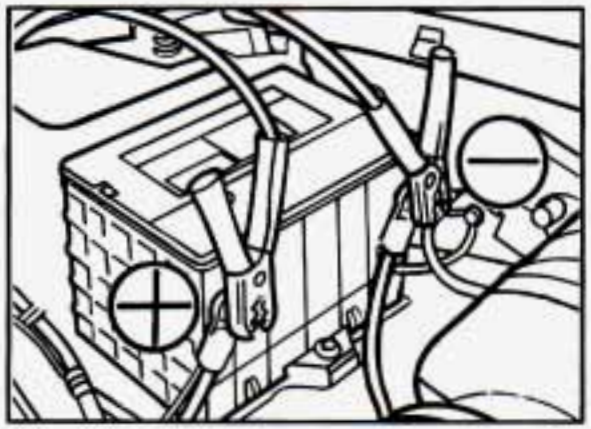
Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engines are running.



6. Connect the red positive (+) cable to the positive (+) terminal of the vehicle with the dead battery. Use a remote positive (+) terminal if the vehicle has one.

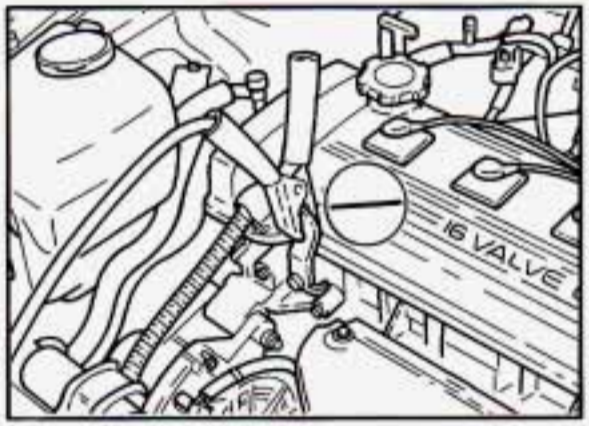


7. Don't let the other end touch metal. Connect it to the positive (+) terminal of the good battery. Use a remote positive (+) terminal if the vehicle has one.

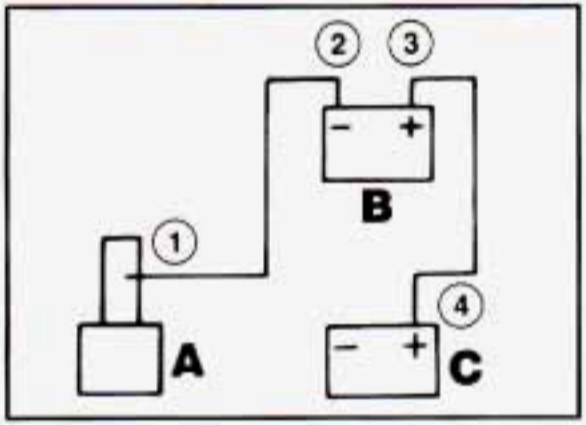


8. Now connect the black negative (–) cable to the good battery's negative (–) terminal. Don't let the other end touch anything until the next step.

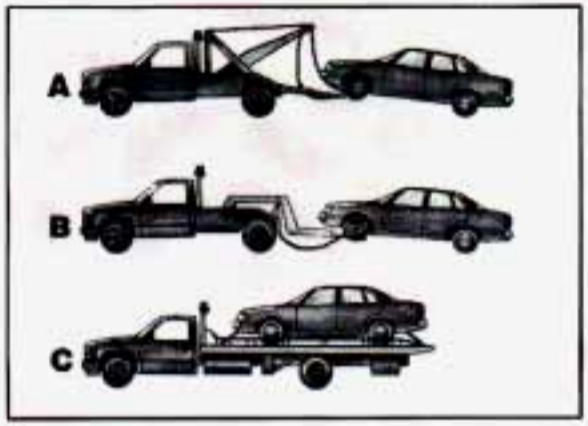
The other end of the negative cable doesn't go to the dead battery. It goes to a heavy unpainted metal part on the engine of the vehicle with the dead battery.



9. Attach the cable at least 18 inches (45 cm) away from the dead battery, but not near engine parts that move. The electrical connection is just as good there, 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.** Heavy Metal Engine Part
    - **B.** Good Battery
    - **C.** Dead Battery



■ *Towing Your Vehicle*

Try to have a GM dealer or a professional towing service tow your Geo. The usual towing equipment is a sling-type (A) or a wheel-lift (B) or car carrier (C) tow truck.

If your vehicle has been changed or modified since it was factory-new by adding aftermarket items like fog lamps, aero skirting, or special tires and wheels, these instructions and illustrations may not be correct.

Before you do anything, turn on the hazard warning flashers.

When you call, tell the towing service:

- That your vehicle cannot be towed from the front or rear with sling-type equipment.

- That your vehicle has front wheel drive.
- The make, model, and year of your vehicle.
- Whether you can still move the shift lever.
- If there was an accident, what was damaged.

When the towing service arrives, let the tow operator know that this manual contains detailed towing instructions and illustrations. The operator may want to see them.

⚠ CAUTION:

To help avoid 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.
- Never use "J"-hooks. Use T-hooks instead.

When your vehicle is being towed, have the ignition key off. The steering wheel should be clamped in a straight-ahead position, with a clamping device designed for towing service. Do not use the vehicle's steering column lock for this. The transaxle should be in "Neutral" and the parking brake released.

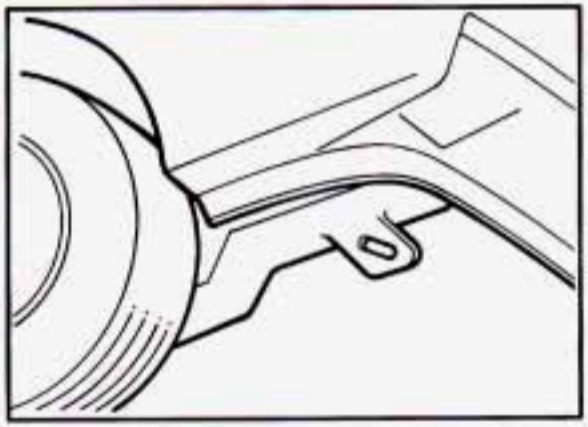
Don't have your vehicle towed with the front wheels in contact with the ground if it has an automatic transaxle. If a vehicle with an automatic transaxle must be towed from the rear with wheel lift equipment, the front wheels must be supported on a dolly.

If your vehicle has a manual transaxle, don't have it towed on the front wheels unless you must. If a vehicle with a manual transaxle must be towed on the front wheels, don't go more than 35 mph (56 km/h) or farther than 50 miles (80 km) or your transaxle will be damaged. If these limits must be exceeded, then the front wheels have to be supported on a dolly. If you have a manual transaxle and dollies won't be used, turn the ignition key to the "ACC" position and put the transaxle in "Neutral."

⚠ CAUTION:

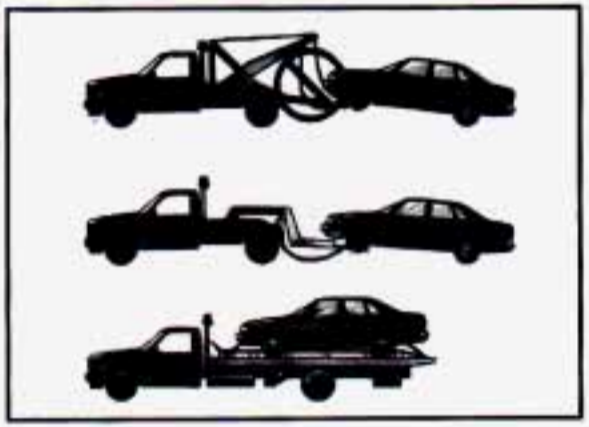
A vehicle can fall from a car carrier if it isn't adequately secured. This can cause a collision, serious personal injury and vehicle damage. The vehicle should be tightly secured with chains or steel cables before it is transported.

Don't use substitutes (ropes, leather straps, canvas webbing, etc.) that can be cut by sharp edges underneath the towed vehicle. Always use T-hooks inserted in the T-hook slots. Never use J-hooks. They will damage drive-train and suspension componenets.



Front Towing Hook-Ups

Attach T-hook chains to slots in frame brackets just ahead of the front wheels on both sides.

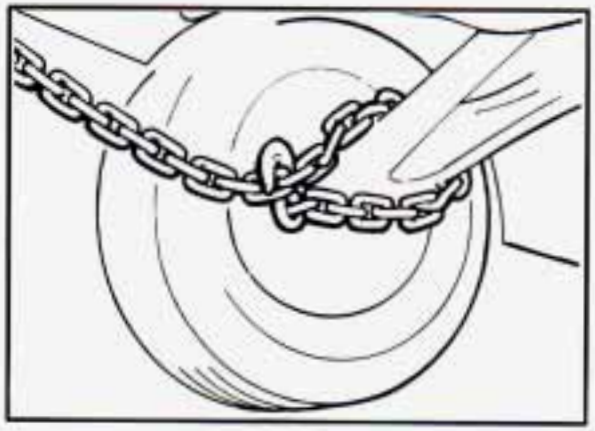


NOTICE:

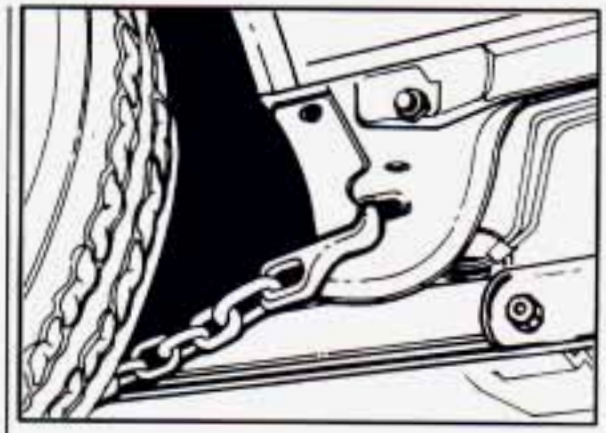
Do not tow with sling-type equipment or fascia damage will occur.

Use wheel lift or car carrier equipment. Additional ramping may be required for car carrier equipment.

Use safety chains and wheel straps.

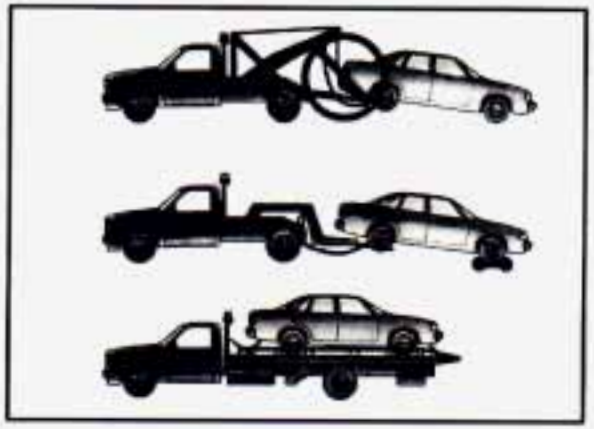


Attach a separate safety chain around the outboard end of each lower control arm.



Rear Towing Hook-Ups

Attach T-hook chains to slots in the bottom of the floor pan just ahead of the rear wheels on both sides.



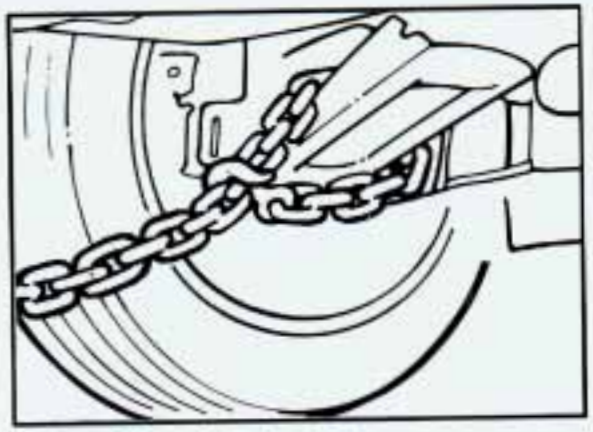
NOTICE:

Do not tow with sling-type equipment or rear bumper valance will be damaged.

Use wheel lift or car carrier equipment. Additional ramping may be required for car carrier equipment.

Use safety chains and wheel straps.

Dollies are required under the front wheels or damage will occur.



Attach a separate safety chain around the outboard end of each lower control arm.

■ *Engine Overheating*

You will find a coolant temperature gage or the warning light about a hot engine on your Geo instrument panel.

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 opening 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 the overheat warning but see or hear no steam, the problem may not be too serious. Sometimes the engine can get a little too hot when you:

- Climb a long hill on a hot day.
- Stop after high speed driving.
- Idle for long periods in traffic.
- Tow a trailer.

If you get the overheat warning with no sign of steam, try this for a minute or so:

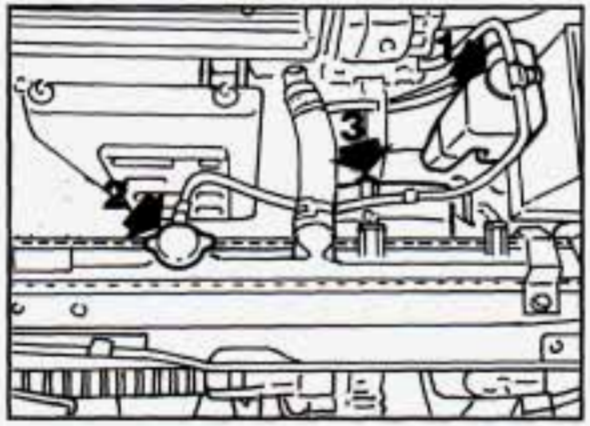
1. If you have an air conditioner, turn it off.
2. Turn on your heater to full hot at the highest fan speed and open the window as necessary.

If you no longer have the overheat warning, you can drive. Just to be safe, drive slower for about ten 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, you can idle the engine for two or three minutes while you're parked, to see if the warning stops. But then, 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.



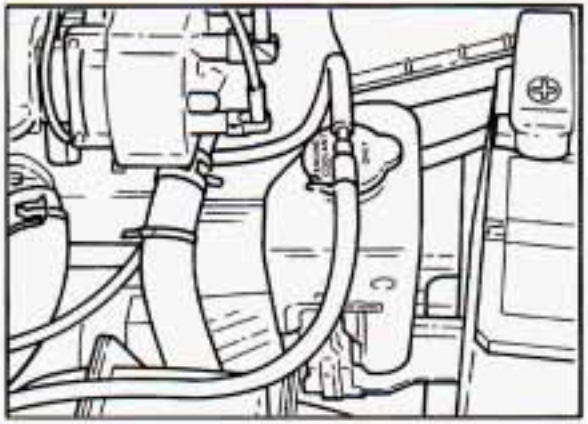
Cooling System

When you decide it's safe to lift the hood, here's what you'll see:

1. Coolant Recovery Tank
2. Radiator Pressure Cap
3. Electric Engine Fan

⚠ CAUTION:

An electric fan under the hood can start up even when the engine is not running and can injure you. Keep hands, clothing and tools away from any underhood electric fan.



If the coolant inside the coolant recovery tank is boiling, don't do anything else until it cools down.

The coolant level should be at or above "FULL." 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.

If there seems to be no leak, check to see if the electric engine fan is running. If the engine is overheating, the fan should be running. If it isn't, your vehicle needs service.

How to Add Coolant to the Coolant Recovery Tank

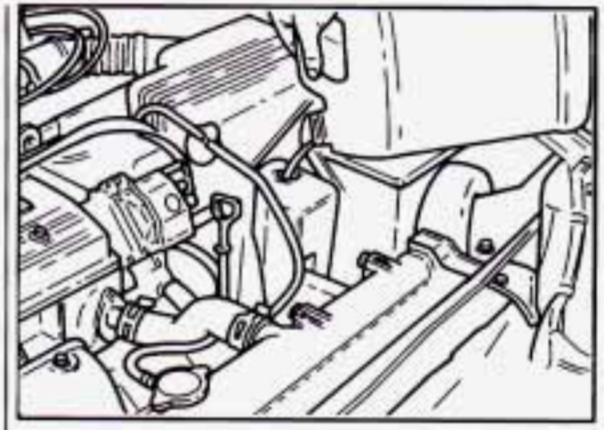
If you haven't found a problem yet, but the coolant level isn't at or above the "FULL" mark add a 50/50 mixture of clean water (preferably distilled) and a proper antifreeze at the coolant recovery tank. (See "Engine Coolant" in the Index for more information about the proper coolant mix.)

⚠ 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 mix will. Your vehicle's coolant warning system is set for the proper coolant mix. With plain water or the wrong mix, 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 mix of clean water and a proper antifreeze.

NOTICE:

In cold weather, water can freeze and crack the engine, radiator, heater core and other parts. Use the recommended coolant.



⚠ CAUTION:

You can be burned if you spill coolant on hot engine parts. Coolant contains ethylene glycol and it will burn if the engine parts are hot enough. Don't spill coolant on a hot engine.

When the coolant in the coolant recovery tank is at or above the "FULL" mark start your vehicle.

If the overheat warning continues, there's one more thing you can try. You can add the proper coolant mix directly to the radiator, but be sure the cooling system is cool before you do it.

⚠ CAUTION:

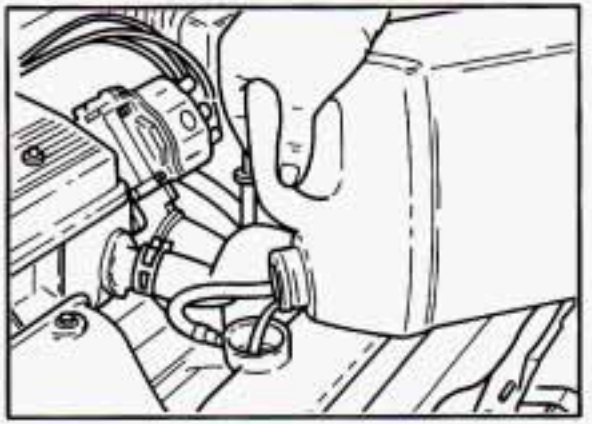
Steam and scalding liquids from a hot cooling system can blow out and burn you badly. They are under pressure, and if you turn the radiator pressure cap – even a little – they can come out at high speed. Never turn the cap when the cooling system, including the radiator pressure cap, is hot. Wait for 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

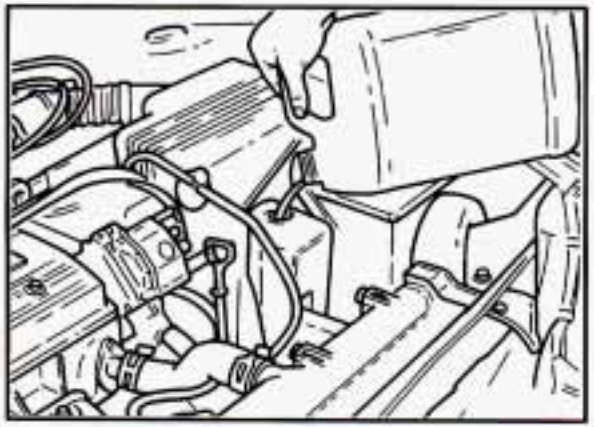
1. You can remove the radiator pressure cap when the cooling system, including the radiator pressure cap and upper radiator hose, is no longer hot. Turn the pressure cap slowly to the left until it first stops. (Don't press down while turning the pressure cap.)

   If you hear a hiss, wait for that to stop. A hiss means there is still some pressure left.

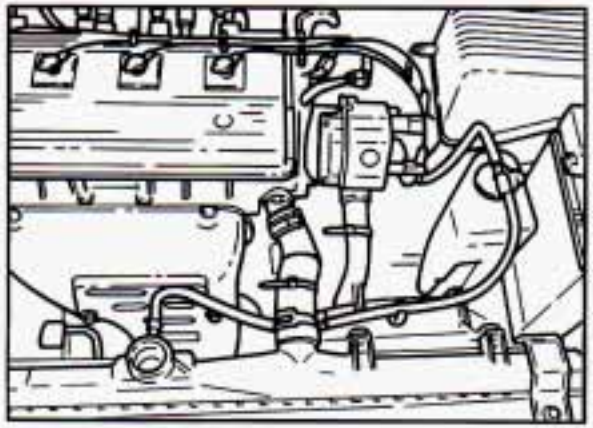
2. Then keep turning the pressure cap, but now push down as you turn it. Remove the pressure cap.



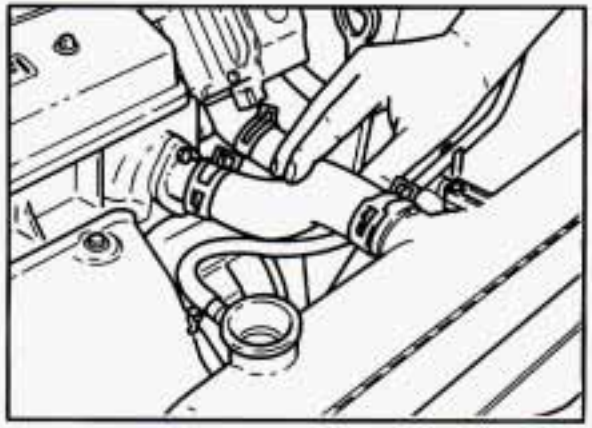
3. Fill the radiator with the proper mix, up to the base of the filler neck.



4. Then fill the coolant recovery tank to "FULL."



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 fan.

- By this time, the coolant level inside the radiator filler neck may be lower. If the level is lower, add more of the proper mix through the filler neck until the level reaches the base of the filler neck.

7. 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.

■ *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, 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 section 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 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 an automatic transaxle shift lever in "P" (Park), or shift a manual transaxle to "1" (First) or "R" (Reverse).
3. Turn off the engine.

To be even more certain the vehicle won't move, you can put chocks 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.

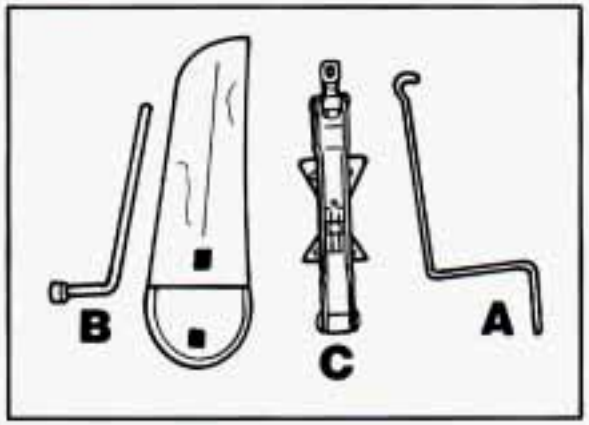
The following steps will tell you how to use the jack and change a tire.

The equipment you'll need is in the trunk.

Move the carpet from the top of the spare tire cover. Then remove the cover over the spare tire.

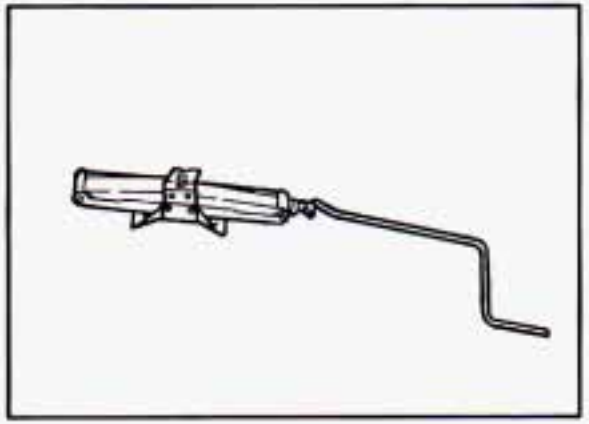
Turn the knob and remove it.

Pull out the spare tire.

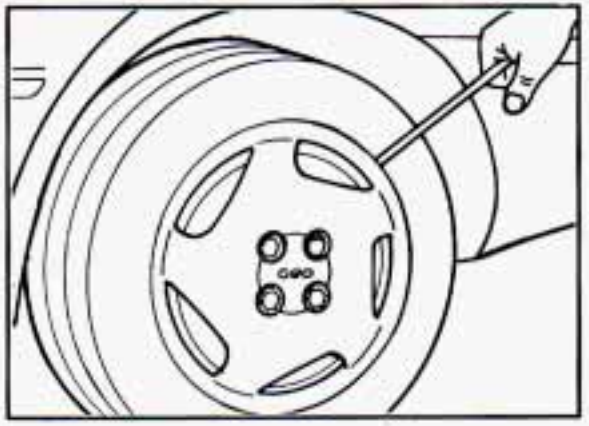


Remove the jack handle (A), wheel wrench (B) and jack (C) from the trunk.

The jack is under a cover on the right side of the trunk. Remove the cover, then turn the jackscrew to remove the jack from the clamps.

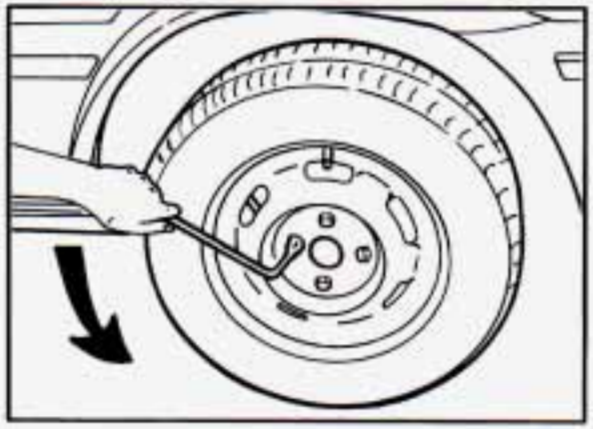


Attach the jack handle to the jack. Turn the jack handle to the right to raise the lift head.

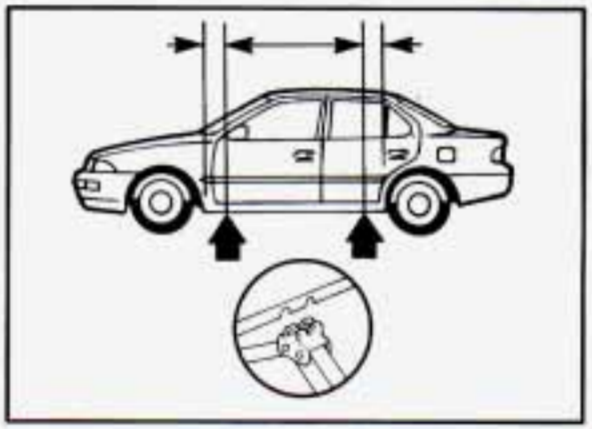


If you have a wheel cover, remove it using the flat end of the wheel wrench. Pry along the edge of the wheel cover until it comes off. Be careful; the rim edges may be sharp. Don't try to remove it with your bare hands.

If you have a center cap on your wheels, insert the flat end of the wheel wrench into the slot in the cap. Pry the cap off.



Using the wheel wrench, loosen all the wheel nuts. Don't remove them yet.

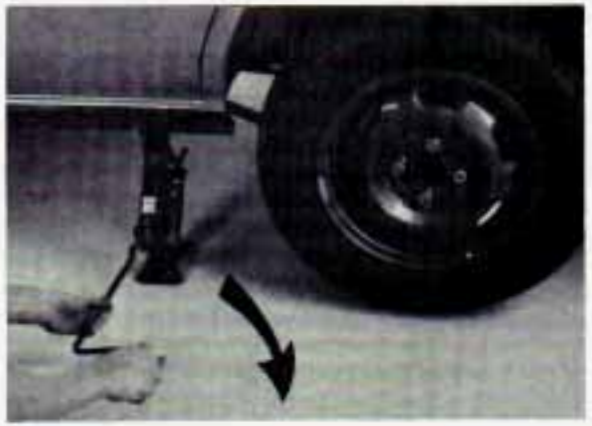


Under the vehicle near each wheel, there are bosses in the vehicle's rocker flange. Position the jack and raise the jack lift head until it fits firmly into the notches closest to the flat tire.

The jack head groove fits the rocker flange forward of the boss in the front; rearward of the boss in the rear.

⚠ 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.

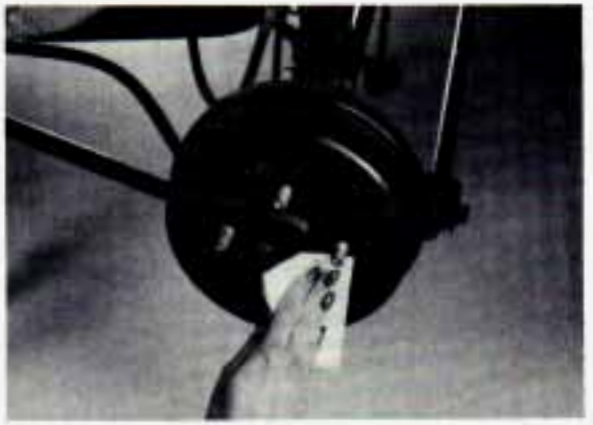


NOTICE:

Raising your vehicle with the jack improperly positioned will damage the vehicle or may allow the vehicle to fall off the jack. Be sure to fit the jack lift head into the proper location before raising your vehicle.

Raise the vehicle by rotating the jack handle clockwise. Raise the vehicle far enough off the ground so there is enough room for the spare tire to fit.

Remove all the wheel nuts and take off the flat tire.



⚠ CAUTION:

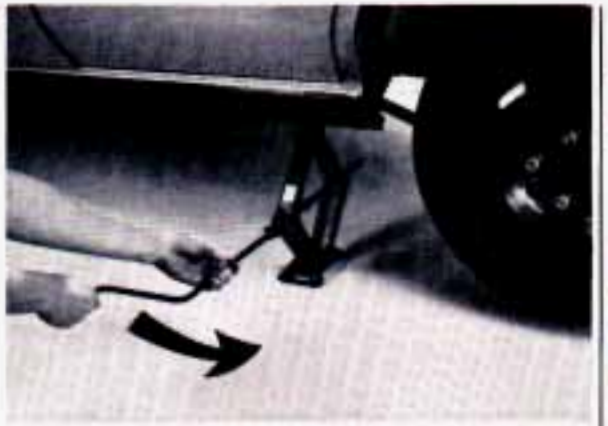
Rust or dirt on the wheel, or on the parts to which it is fastened, can make the wheel nuts become loose after a time. The wheel could come off and cause an accident. When you change a wheel, remove any rust or dirt from the places where the wheel attaches to the vehicle. In an emergency, you can use 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.

Remove any rust or dirt from the wheel bolts, mounting surfaces and spare wheel. Place the spare on the wheel mounting surface.

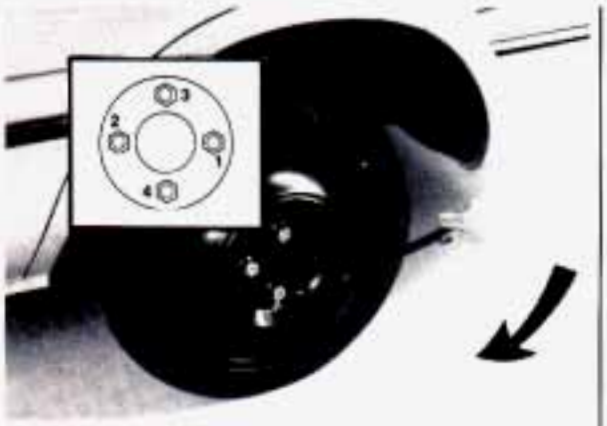
⚠ CAUTION:

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.

Replace the wheel nuts with the rounded end of the nuts toward the wheel. Tighten each nut by hand until the wheel is held against the hub.



Lower the vehicle by turning the jack handle counterclockwise. Lower the jack completely.



Tighten the wheel nuts firmly in a criss-cross sequence as shown.

⚠ CAUTION:

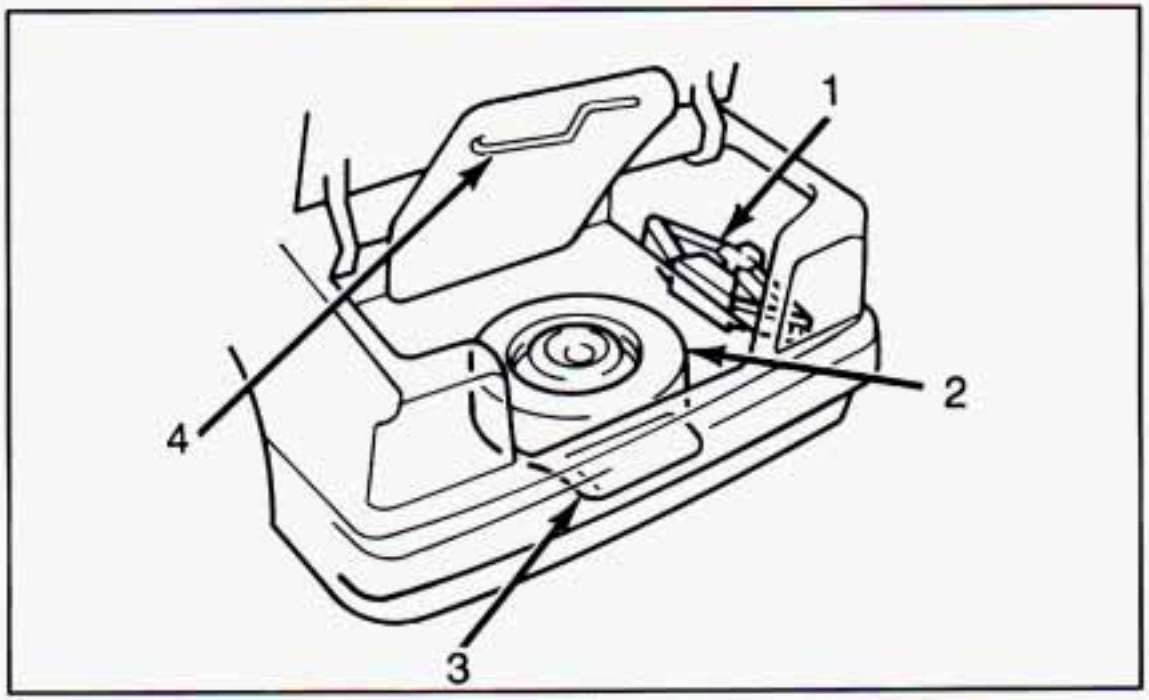
Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to become loose and even come off. This could lead to an accident. Be sure to use the correct wheel nuts. If you have to replace them, be sure to get the right kind.

Stop somewhere as soon as you can and have the nuts tightened with a torque wrench to 76 pound-feet (103 N•m).

Don't try to put a wheel cover on your compact spare tire. It won't fit. Store the wheel cover in the trunk until you have the flat tire repaired or replaced.

NOTICE:

Wheel covers won't fit on your compact spare. If you try to put a wheel cover on your compact spare, you could damage the cover or the spare.



1. Jack
2. Spare Tire
3. Tool Bag
4. Jack Handle

Replace the jack, jack handle, wheel wrench and flat tire. Make sure the tool bag is stored securely under the tire to help prevent rattles.

⚠ 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.

Compact Spare Tire

Although the compact spare 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 posted speed limits for distances up to 3,000 miles (5 000 km), so you can finish your trip and have your full-size tire repaired or replaced where you want. Of course, it's best to replace your spare with a full-size tire as soon as you can. Your spare will last longer and be in good shape in case you need it again.

NOTICE:

Don't take your compact spare 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 some other vehicle.

And don't mix your compact spare or wheel with other wheels or tires. They won't fit. Keep your spare and its wheel together.

NOTICE:

Tire chains won't fit your compact spare. Using them will damage your vehicle and destroy the chains too. Don't use tire chains on your compact spare.

■ *If You're Stuck: In Sand, Mud, Ice or Snow*

What you don't want to do when your vehicle is stuck is to spin your wheels. The method known as "rocking" can help you get out when you're stuck, but you must use caution.

⚠ CAUTION:

If you let your tires spin at high speed, they can explode and you or others could be injured. And, the transaxle or other parts of the vehicle can overheat. That could cause an engine compartment fire or other damage. When you're stuck, spin the wheels as little as possible. Don't spin the wheels above 35 mph (55 km/h) as shown on the speedometer.

NOTICE:

Spinning your wheels can destroy parts of your vehicle as well as the tires. If you spin the wheels too fast while shifting your transaxle back and forth, you can destroy your transaxle.

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 "R" (Reverse) and a forward gear (or with a manual transaxle, between First or Second gear and Reverse), spinning the wheels as little as possible. Release the accelerator pedal while you shift, and press lightly on the accelerator pedal when the transaxle is in gear. If that doesn't get you out after a few tries, you may need to be towed out. Or, you can use your recovery hooks. If you do need to be towed out, see "Towing Your Vehicle" in the Index.

Using the Recovery Hooks

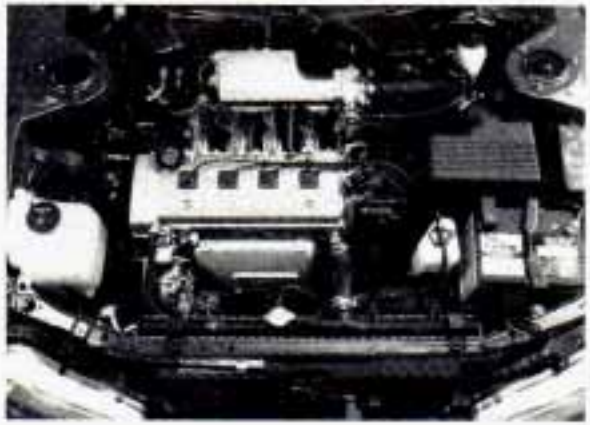
If you ever get stuck in sand, mud, ice or snow, your Prizm is equipped with recovery hooks. The recovery hooks are provided at the front of your vehicle. They can only be used for pulling your vehicle out.

⚠ CAUTION:

The recovery hooks, when used, are under a lot of force. Always pull the vehicle straight out. Never pull on the hooks at a sideways angle. The hooks could break off and you or others could be injured from the chain or cable snapping back.

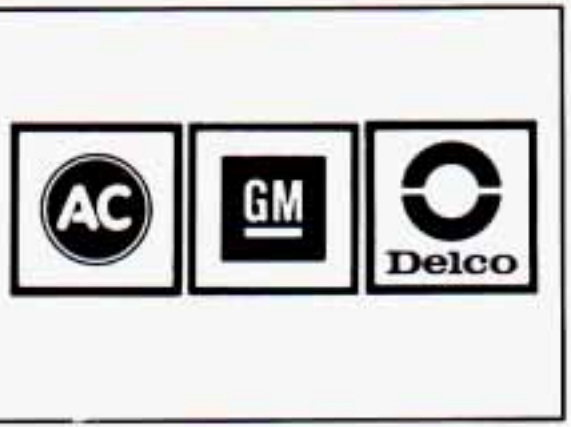
NOTICE:

Never use the recovery hooks to tow the vehicle. Your Prizm could be damaged and it would not be covered by warranty.



Here you will find information about the care of your Geo. This part 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 section devoted to its appearance care.

Part 6
Service & Appearance Care



■ *Service*

Your Geo 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 get the proper Geo Service Manual. It tells you much more about how to service your Geo than this manual can. To order the proper service manual, see "Service 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 Geo" 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 if you try to do service work on a vehicle without knowing enough about it.

- Be sure you have sufficient knowledge, experience, and 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.

NOTICE:

If you try to do your own service work without knowing enough about it, your vehicle could be damaged.

■ *Fuel*

Use regular unleaded gasoline rated at 87 octane or higher. It should meet specifications ASTM D4814 in the U.S. and CGSB 3.5-92 in Canada. These fuels should have the proper additives, so you should not have to add anything to the fuel.

In the U.S. and Canada, it's easy to be sure you get the right kind of gasoline (unleaded). You'll see "UNLEADED" right on the pump. And only unleaded nozzles will fit into your vehicle's filler neck.

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 still 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.

What about gasoline with blending materials that contain oxygen (oxygenates), such as MTBE or alcohol?

MTBE is "methyl tertiary-butyl ether." Fuel that is no more than 15% MTBE is fine for your vehicle.

Ethanol is ethyl or grain alcohol. Properly-blended fuel that is no more than 10% ethanol is fine for your vehicle.

Methanol is methyl or wood alcohol.

NOTICE:

Fuel that is more than 5% methanol is bad for your vehicle. 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. And even at 5% or less, there must be "cosolvents" and corrosion preventers in this fuel to help avoid these problems.

Gasolines for Cleaner Air

Your use of gasoline with deposit control additives will help prevent deposits from forming in your engine and fuel system. That helps keep your engine in tune and your emission control system working properly. It's good for your vehicle, and you'll be doing your part for cleaner air.

Many gasolines are now blended with oxygenates. General Motors recommends that you use gasolines with these blending materials, such as MTBE and ethanol. By doing so, you can help clean the air, especially in those parts of the country that have high carbon monoxide levels.

In addition, some gasoline suppliers are now producing reformulated gasolines. These gasolines are specially designed to reduce vehicle emissions. General Motors recommends that you use reformulated gasoline. By doing so, you can help clean the air, especially in those parts of the country that have high ozone levels.

You should ask your service station operators if their gasolines contain deposit control additives and oxygenates, and if they have been reformulated to reduce vehicle emissions.

Fuels in Foreign Countries

If you plan on driving in another country outside the U.S. or Canada, unleaded fuel may be hard to find. Do not use leaded gasoline. If you use even one tankful,

your emission controls won't work well or at all. With continuous use, spark plugs can get fouled, the exhaust system can corrode, and your engine oil can deteriorate quickly. Your vehicle's oxygen sensor will be damaged. All of that means costly repairs that 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
North American Export Sales (NAES)
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 release lever is near the floor to the left of the driver's seat. The cap is behind a hinged door on the left side of your vehicle.

While refueling, hang the cap inside the fuel door.

To take off the cap, turn it slowly to the left (counterclockwise).

⚠ CAUTION:

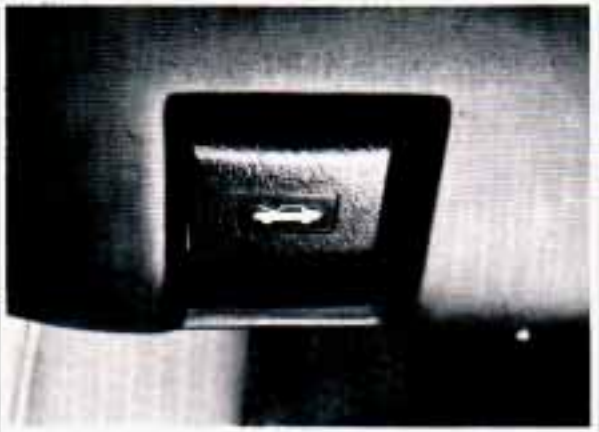
If you get gasoline on you and then something ignites it, you could be badly burned. Gasoline can spray out on you if you open the fuel filler cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel filler cap slowly and wait for any "hiss" 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 Geo" in the Index.

When you put the cap back on, turn it to the right until you hear at least three clicks.

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 or have proper venting, and your fuel tank and emissions system might be damaged.



■ *Checking Things under the Hood*

Hood Release

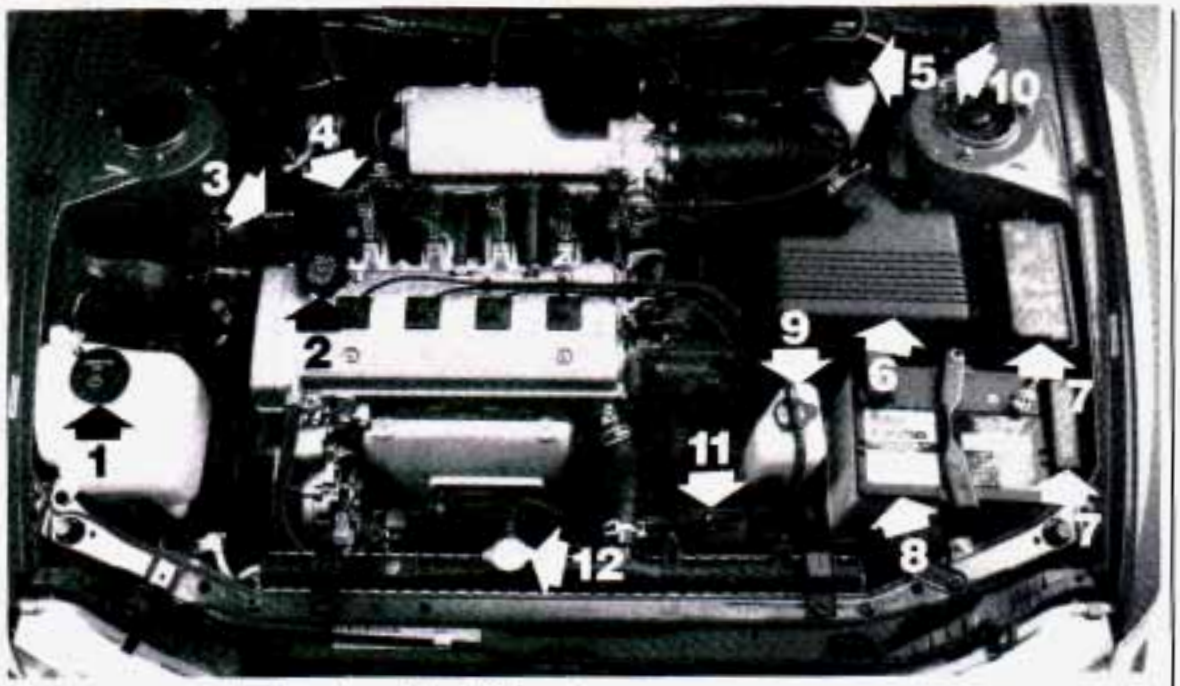
To open the hood, first pull the release handle inside the vehicle.

Then go to the front of the vehicle and release the secondary hood release. The release is on the right near the middle of the hood.

Lift the hood, release the hood prop from its retainer and put the hood prop into the slot in the hood.

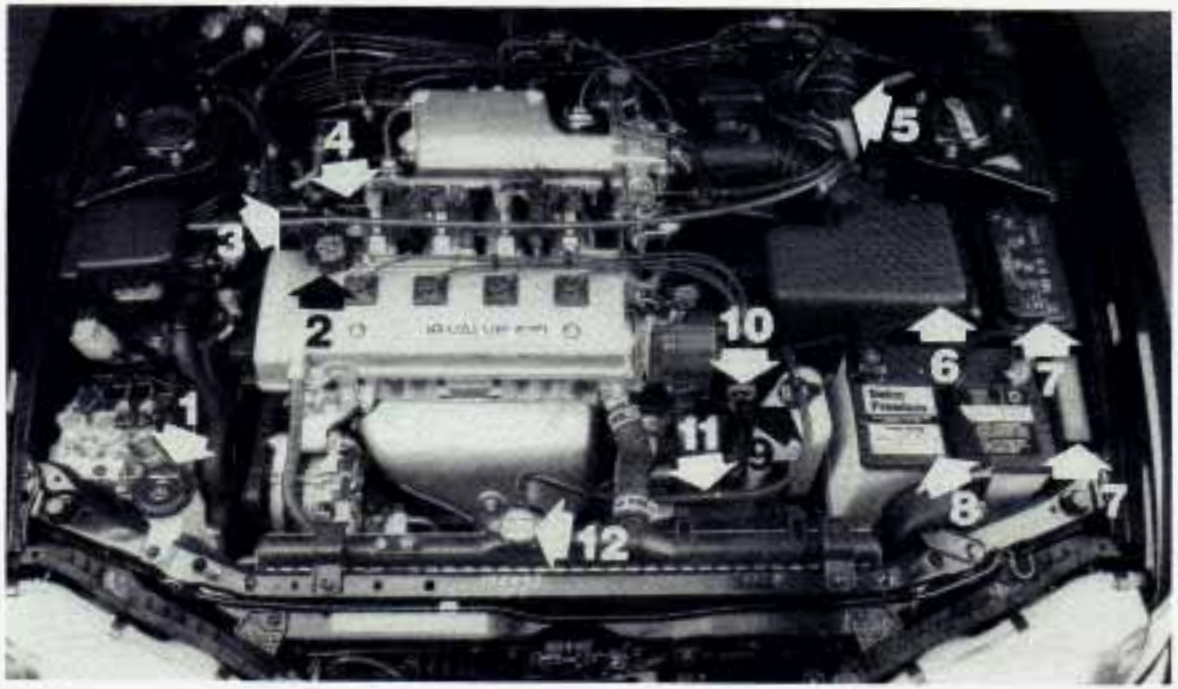
⚠ CAUTION:

An electric fan under the hood can start up and injure you even when the engine is not running. Keep hands, clothing and tools away from any underhood electric fan.



When you open the hood, on the 1.6L (Code 6) engine without anti-lock brakes you'll see:

1. Windshield Washer Reservoir
2. Oil Fill Cap
3. Engine Oil Dipstick
4. Power Steering Reservoir
5. Brake Fluid Reservoir
6. Air Cleaner
7. Engine Compartment Fuses
8. Battery
9. Engine Coolant Reservoir
10. Hydraulic Clutch Fluid Reservoir
11. Engine Fan
12. Radiator Pressure Cap



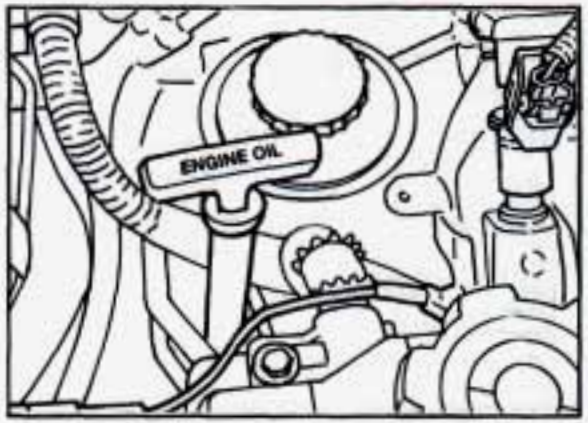
When you open the hood, on the 1.8L (Code 8) engine with anti-lock brakes you'll see:

1. Windshield Washer Reservoir
2. Oil Fill Cap
3. Engine Oil Dipstick
4. Power Steering Fluid Reservoir
5. Brake Fluid Reservoir
6. Air Cleaner
7. Engine Compartment Fuses
8. Battery
9. Engine Coolant Reservoir
10. Automatic Transaxle Dipstick (if equipped)
11. Electric Engine Fan
12. Radiator Pressure Cap

⚠ CAUTION:

Things that burn can get on hot engine parts and start a fire. These include liquids like gasoline, oil, coolant, brake fluid, windshield washer and other fluids, and plastic or rubber. You or others could be burned. Be careful not to drop or spill things that will burn onto a hot engine.

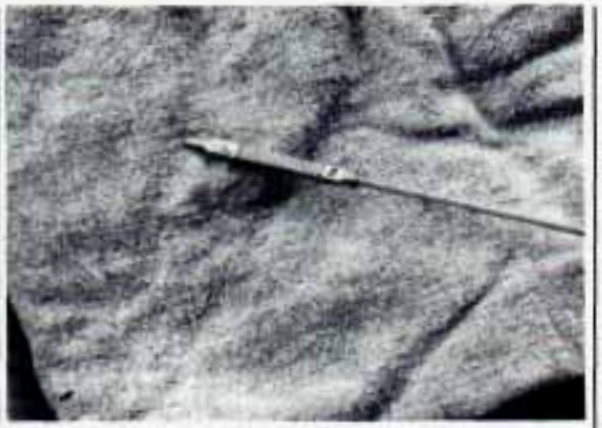
Before closing the hood, be sure all the filler caps are on properly.



Engine Oil

It's a good idea to check your engine oil level 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.

Turn off the engine and give the oil a few minutes to drain back into the oil pan. If you don't, the oil dipstick might not show the actual level.



To Check Engine Oil

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 lower.

When to Add Oil:

If the oil is at or below the "L", you'll need to add some oil. But you must use the right kind. This section explains what kind of oil to use. For crankcase capacity, see "Capacities and Specifications" in the Index.

NOTICE:

Don't add too much oil. If your engine has so much oil that the oil level gets above the upper mark that shows the proper operating range, your engine could be damaged.

Just 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 Oil to Use

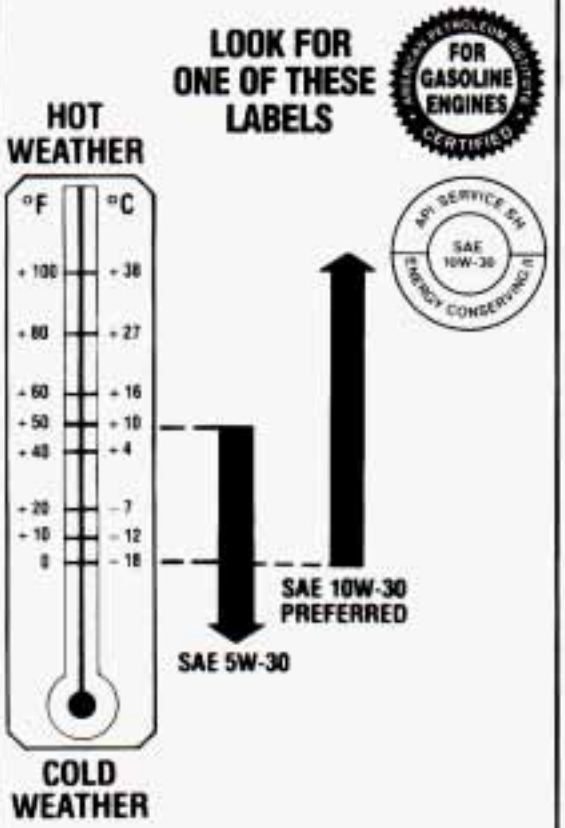
Beginning midyear 1993, oils of the proper quality for your vehicle will be identified with this new "starburst" symbol. The "starburst" symbol indicates that the oil has been certified by the American Petroleum Institute (API), and is preferred for use in your gasoline engine.

You should look for this on the front of the oil container, and use only oils that display this new symbol.

You should also use the proper viscosity oil for your vehicle, as shown in the following chart:

Recommended SAE Viscosity Grade Engine Oils

For best fuel economy and cold starting, select the lowest SAE viscosity grade oil for the expected temperature range.



As shown in the chart, SAE 10W-30 is best for your vehicle. However, you can use SAE 5W-30 if it's going to be colder than 50°F (10°C) before your next oil change. When it's very cold, you should use SAE 5W-30. These numbers on an oil container show its viscosity, or thickness. Do not use other viscosity oils, such as SAE 10W-40 or SAE 20W-50.

If you cannot find oils with the new "starburst" symbol on the front of the container, you should look for and use oils containing the following three things:

- SH or SG

  "SH" or "SG" must be on the oil container, either by itself or combined with other quality designations, such as "SH/CD," "SH,SG,CD," "SG/CD," etc. These letters show American Petroleum Institute (API) levels of quality.
- SAE 10W-30
- Energy Conserving II

  Oils with these words on the container will help you save fuel.

These three things are usually included in a doughnut shaped logo (symbol) on most containers. If you cannot find oils with the "starburst" symbol, you should look for oils with the doughnut shaped symbol, containing the three things noted above.

NOTICE:

If you use oils that do not have either the "starburst" symbol or an API SH or SG designation, you can cause engine damage not covered by your warranty.

GM Goodwrench® oil (in Canada, GM Engine Oil) meets all the requirements for your vehicle.

Engine Oil Additives

Don't add anything to your oil. Your Geo dealer is ready to advise if you think something should be added.

When to Change Engine Oil

See if any one of these is true for you:

- Most trips are less than 4 miles (6 km).
- It's below freezing outside and most trips are less than 10 miles (16 km).
- The engine is at low speed most of the time (as in door-to-door delivery, or stop-and-go traffic).
- You tow a trailer often.
- Most trips are through dusty places.

If any one of these is true for your vehicle, then you need to change your oil and filter every 3,750 miles (6 200 km) or 6 months — whichever comes first.

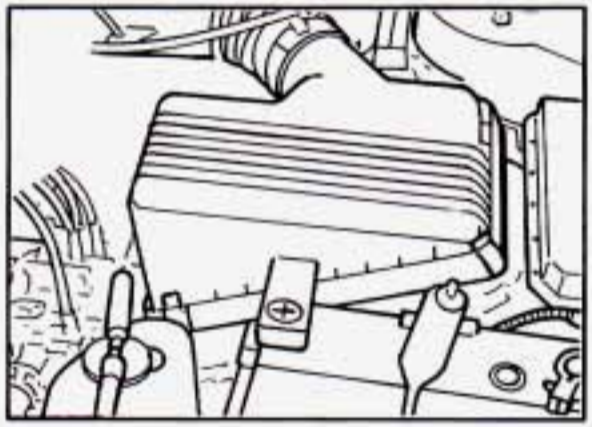
If none of them is true, change oil and filter every 7,500 miles (12 500 km) or 12 months — whichever comes first.

What to Do with Used Oil

Did you know that used engine oil contains 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.



Air Cleaner

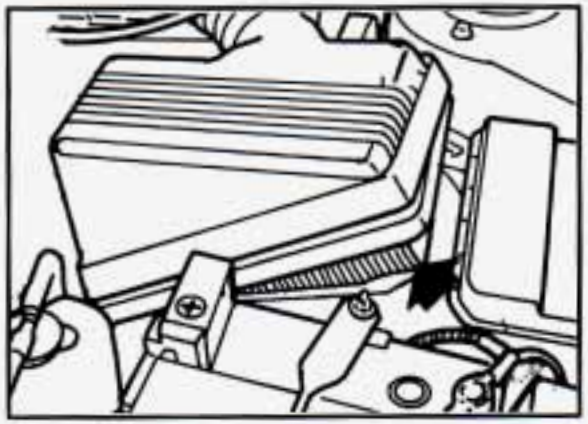
Refer to the Maintenance Schedule to determine when to replace the air filter. See "Scheduled Maintenance Services" in the Index.

⚠ CAUTION:

Operating the engine with the air cleaner off can cause you or others to be burned. The air cleaner not only cleans the air, it stops flame if the engine backfires. If it isn't there, and the engine backfires, you could be burned. Don't drive with it off, and be careful working on the engine with the air cleaner off.

NOTICE:

If the air cleaner 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 in place when you're driving.



Air Filter Replacement

To check or replace the filter:

1. Release the four clips that hold the cover down.
2. Lift the cover off.
3. Pull out the air filter.

Automatic Transaxle Fluid

When to Check and Change

A good time to check your automatic transaxle fluid level is when the engine oil is changed. Refer to the Maintenance Schedule to determine when to change your fluid. 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 your Geo dealership Service Department.

If you do it yourself, be sure to follow all the instructions here, or you could get a false reading on the dipstick.

NOTICE:

Too much or too little fluid can damage your transaxle. Too much can mean that some of the fluid could come out and fall on hot engine parts or exhaust system parts, starting a fire. Be sure to get an accurate reading if you check your transaxle fluid.

Wait at least 30 minutes before checking the transaxle fluid level if you have been driving:

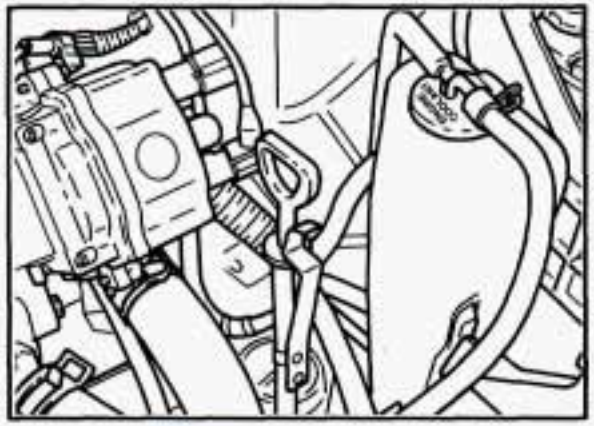
- When outside temperatures are above 90°F (32°C).
- At high speed for quite a while.
- In heavy traffic — especially in hot weather.
- While pulling a trailer.

To get the right reading, the fluid should be at normal operating temperature, which is 180°F to 200°F (82°C to 93°C).

Get the vehicle warmed up by driving about 15 miles (24 km) when outside temperatures are above 50°F (10°C). If it's colder than 50°F (10°C), you may have to drive longer.

To check the fluid level

- Park your vehicle on a level place. Keep the engine running.
- With the parking brake applied, place the shift lever in "P" (Park).
- 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 "P" (Park).
- Let the engine run at idle for three to five minutes.



Then, without shutting off the engine, follow these steps:

1. Release the tab and 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 between the two dimples in the hot range.
4. If the fluid level is in the acceptable range, push the dipstick back in all the way.

How to Add Fluid

Refer to the Maintenance Schedule to determine what kind of transaxle fluid to use. See "Recommended Fluids and Lubricants" in the Index.

If the fluid level is low, add only enough of the proper fluid to bring the level into the area between dimples on the dipstick.

1. Pull out the dipstick.
2. Using a long-neck funnel, add enough fluid at the dipstick hole to bring it to the proper level.

It doesn't take much fluid, generally less than a pint (0.5 L). Don't overfill. We recommend you use only fluid labeled DEXRON®-III or DEXRON®-IIE, because fluids with that label are made especially for your automatic transaxle. Damage caused by fluid other than DEXRON®-III or DEXRON®-IIE 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.

Manual Transaxle Fluid

How to Check:

Because this operation can be difficult, you may choose to have this done at your Geo dealership Service Department.

If you do it yourself, be sure to follow all the instructions here, or you could get a false reading.

NOTICE:

Too much or too little fluid can damage your transaxle. Too much can mean that some of the fluid could come out and fall on hot engine parts or exhaust system parts, starting a fire. Be sure to get an accurate reading if you check your transaxle fluid.

Check the fluid level only when your engine is off, the vehicle is parked on a level place and the transaxle is cool enough for you to rest your fingers on the transaxle case.

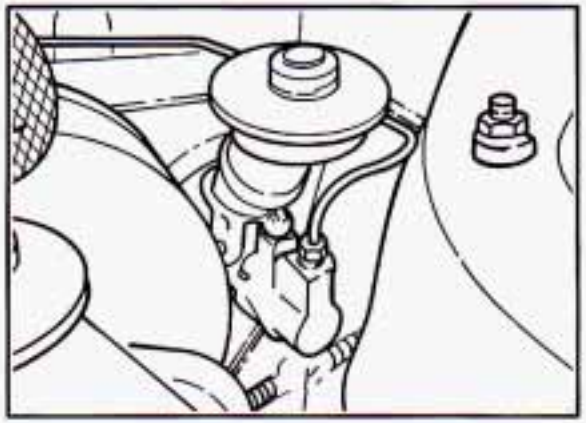
Then, follow these steps:

1. Remove the filler plug.
2. Check that the lubricant level is up to the bottom of the filler plug hole.
3. If the fluid level is good, install the plug and be sure it is fully seated. If the fluid level is low, add more fluid as described in the next steps.

How to Add Fluid:

Here's how to add fluid. Refer to the Maintenance Schedule to determine what kind of fluid to use. See "Recommended Fluids and Lubricants" in the Index.

1. Remove the filler plug.
2. Add fluid at the filler plug hole. Add only enough fluid to bring the fluid level up to the bottom of the filler plug hole.
3. Install the filler plug. Be sure the plug is fully seated.



Hydraulic Clutch

The hydraulic clutch in your vehicle is self-adjusting. The clutch master cylinder reservoir is filled with hydraulic clutch fluid.

It isn't a good idea to "topoff" your clutch fluid. Adding fluid won't correct a leak.

A fluid loss in this system could indicate a problem. Have the system inspected and repaired.

When to Check and What to Use

Refer to the Maintenance Schedule to determine how often you should check the fluid level in your clutch master cylinder reservoir and for the proper fluid. See "Owner Checks and Services" and "Recommended Fluids and Lubricants" in the Index.

How to Check

The proper fluid should be added if the level is at or below the "MIN" mark on the reservoir. See the instructions on the reservoir cap.

Engine 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.

The proper coolant for your Geo will:

- Give freezing protection down to –34°F (–37°C).
- Give boiling protection up to 262°F (128°C) .
- Protect against rust and corrosion.
- Help keep the proper engine temperature.
- Let the warning lights work as they should.

What to Use:

Use a mixture of one-half clean water (preferably distilled) and one-half antifreeze that meets "GM Specification 1825-M," which won't damage aluminum parts. You can also use a recycled coolant

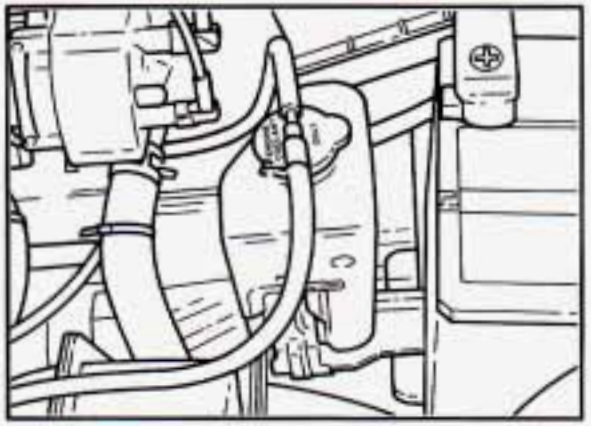
conforming to GM Specification 1825-M with a complete coolant flush and refill. If you use this mixture, you don't need to add anything else.

⚠ 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 mix will. Your vehicle's coolant warning system is set for the proper coolant mix. With plain water or the wrong mix, 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 mix of clean water and a proper antifreeze.

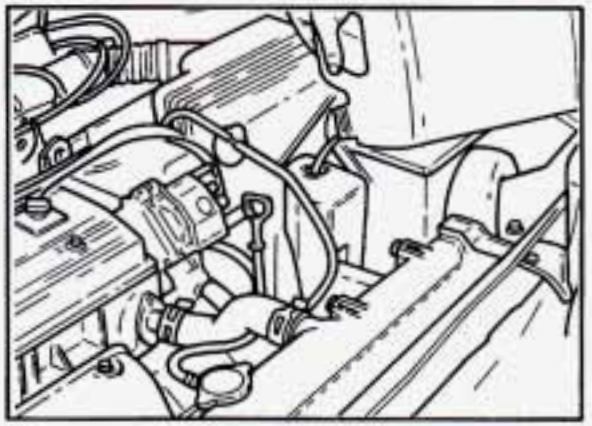
NOTICE:

If you use an improper coolant mix, your engine could overheat and be badly damaged. The repair cost wouldn't be covered by your warranty. Too much water in the mix can freeze and crack the engine, radiator, heater core and other parts.



Adding Coolant:

To Check Coolant: When your engine is cold, the coolant level should be at "LOW," or a little higher. When your engine is warm, the level should be up to "FULL," or a little higher.



To Add Coolant: If you need to add more coolant, add the proper mix at the coolant recovery tank.

⚠ CAUTION:

Turning the radiator pressure cap when the engine and cooling system 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 mix 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.

Radiator Pressure Cap

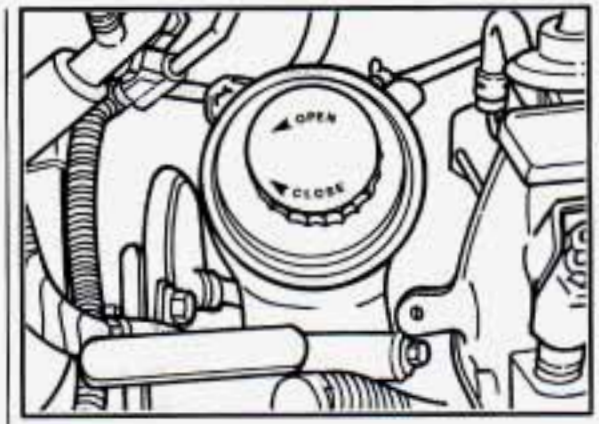
NOTICE:

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.

When you replace your radiator pressure cap, an AC® cap is recommended.

Thermostat

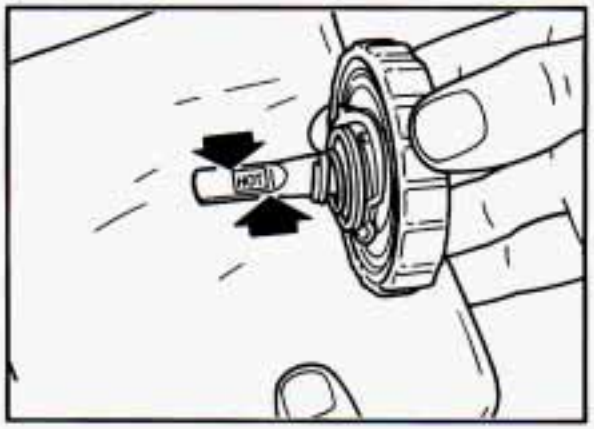
Engine coolant temperature is controlled by a thermostat in the engine coolant system. The thermostat stops the flow of coolant through the radiator until the coolant reaches a preset temperature. When you replace your thermostat, an AC® thermostat is recommended.



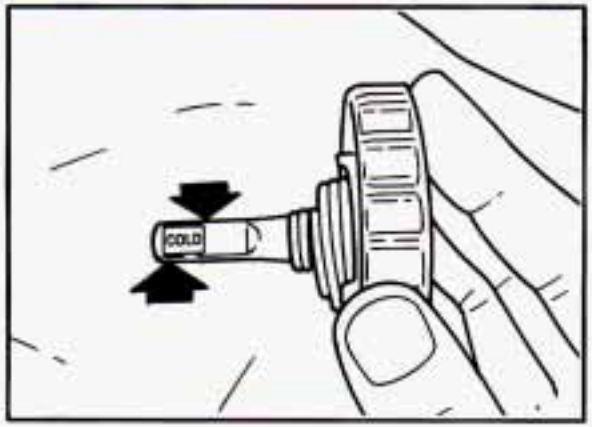
Power Steering Fluid

How to Check Power Steering Fluid

Unscrew the cap and wipe the dipstick with a clean rag. Replace the cap and completely tighten it. Then remove the cap again and look at the fluid level on the dipstick.



- When the engine compartment is hot, the level should be between the "HOT" marks.



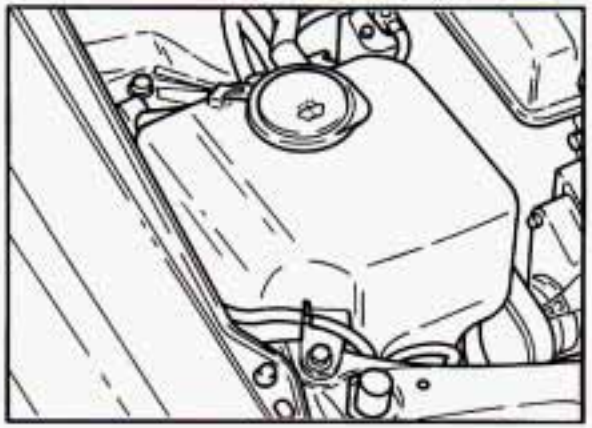
- When the engine compartment is cool, the level should be between the "COLD" marks.

What to Add

Refer to the Maintenance Schedule to determine what kind of fluid to use. See "Recommended Fluids and Lubricants" in the Index.

NOTICE:

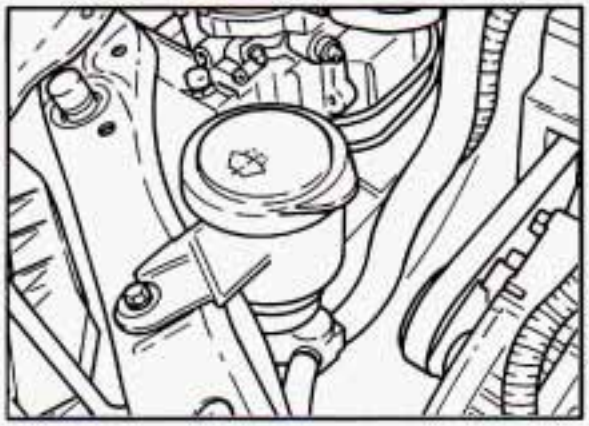
When adding power steering fluid or making a complete fluid change, always use the proper fluid. Failure to use the proper fluid can cause leaks and damage hoses and seals.



Windshield Washer Fluid

To Add:

Open the cap labeled "WASHER FLUID ONLY." Add washer fluid until the bottle is full.



If you have anti-lock brakes, open the cap labeled "WASHER FLUID ONLY." Add washer fluid until the float in the bottle shows that it 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 3/4 full when it's very cold. This allows for expansion, which could damage the tank if it is completely full.
- Don't use radiator antifreeze in your windshield washer. It can damage your washer system and paint.

Brakes

Brake Master Cylinder

Your brake master cylinder is here. It is filled with DOT-3 brake fluid.

There are only two reasons why the brake fluid level in your master cylinder might go down. The first is that the brake fluid goes down to an acceptable level during normal brake lining wear. When new linings are put in, the fluid level goes back up. The other reason is that fluid is leaking out of the brake system. If it is, you should have your brake system fixed, since a leak means that sooner or later your brakes won't work well, or won't work at all. So, it isn't a good idea to "top off" your brake fluid. Adding brake fluid

won't correct a leak. If you add fluid when your linings are worn, then you'll have too much fluid when you get new brake linings. You should add (or remove) brake fluid, as necessary, only when work is done on the brake hydraulic system.

⚠ CAUTION:

If you have too much brake fluid, it can spill on the engine. The fluid will burn if the engine is hot enough. You or others could be burned, and your vehicle could be damaged. Add brake fluid only when work is done on the brake hydraulic system.

When your brake fluid falls to a low level, your brake warning light will come on. See "Brake System Warning Light" in the Index.

What to Add:

When you do need brake fluid, use only DOT-3 brake fluid — such as Delco-Supreme 11® (GM Part No. 1052535). Use new brake fluid from a sealed container only, and always clean the brake fluid reservoir cap before removing it.

NOTICE:

- Don't let someone put in the wrong kind of fluid. 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.
- Brake fluid can damage paint, so 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 Geo 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 sooner or later 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.

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. 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 brakes replaced, have the rear brakes inspected, too.

Brake linings should always be replaced as complete axle sets.

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 moderate brake stop, your disc brakes adjust for wear. If you rarely make a moderate or heavier stop, then your brakes might not adjust correctly. If you drive in that way, then – very carefully – make a few moderate brake stops about every 1,000 miles (1 600 km), so your brakes will adjust properly.

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 modern 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. Vehicles we design and test have top-quality GM brake parts in them, as your Geo does when it is new. 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 genuine 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

Every new Geo has a Delco Freedom® battery. You never have to add water to one of these. When it's time for a new battery, we recommend a Delco Freedom® battery. Get one that has the catalog number shown on the original battery's label.

Vehicle Storage

If you're not going to drive your vehicle for 25 days or more, take off 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.

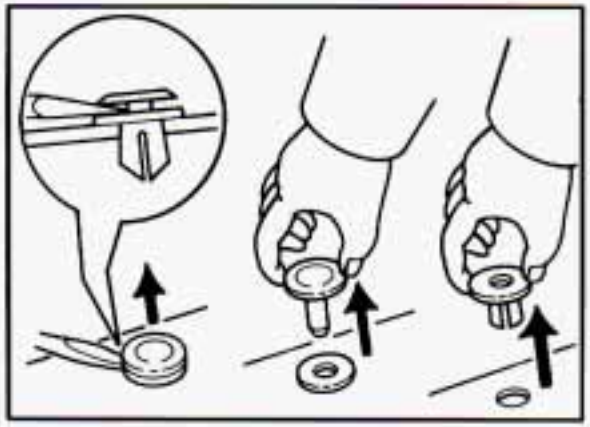
Contact your dealer to learn how to prepare your vehicle for longer storage periods.

■ *Bulb Replacement*

See "Replacement Bulbs" in the Index to check the size and type of bulb you need to use.

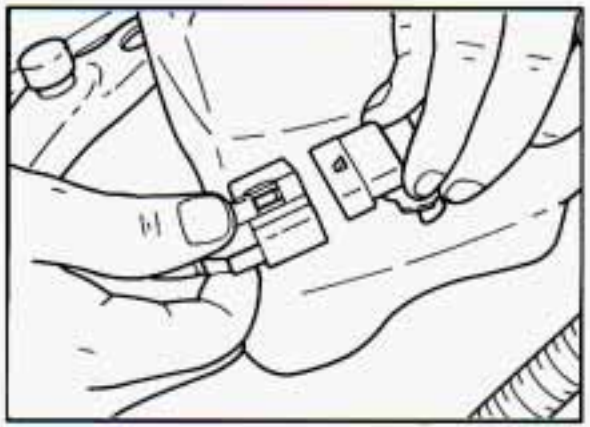
Halogen Bulbs

> **⚠ CAUTION:**
>
> Halogen bulbs have pressurized gas inside and can burst if you drop or scratch the bulb. You or others could be injured. Take special care when handling and disposing of halogen bulbs.

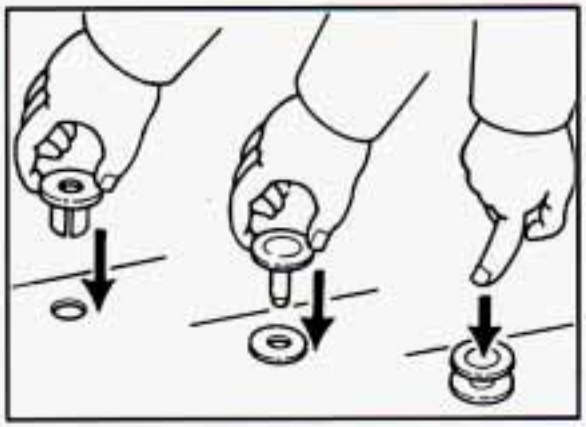


Headlights

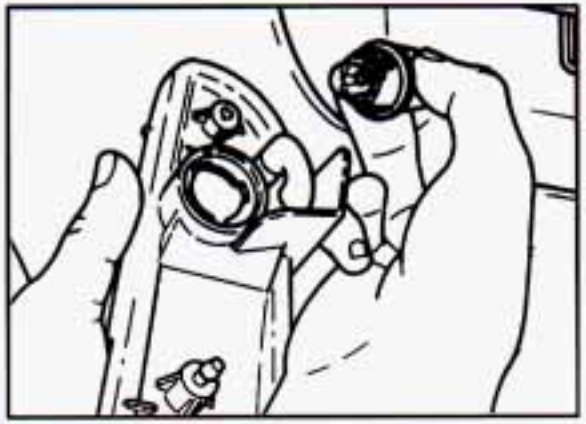
1. Open the hood.
2. If you're replacing a driver side headlight bulb, you need to remove the air duct behind the headlight assembly.
   - Pry up on the center of the plastic clip and pull it out.
   - Pull out the outer part of the plastic clip.
   - Remove the air duct.



3. Reach behind the headlight assembly and find the lock ring assembly.
4. Turn the lock ring assembly to the left. It doesn't come off.
5. Pull the bulb socket out of the housing.
6. Pull the connector apart to remove the bulb assembly.

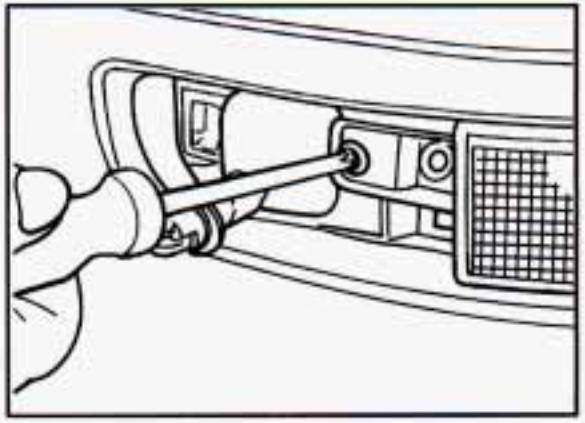


7. Reverse the steps with a new bulb assembly.
   - If you replaced a driver side bulb, replace the air duct, slide the outer part of the plastic clip into the hole and then push in the center of the clip.



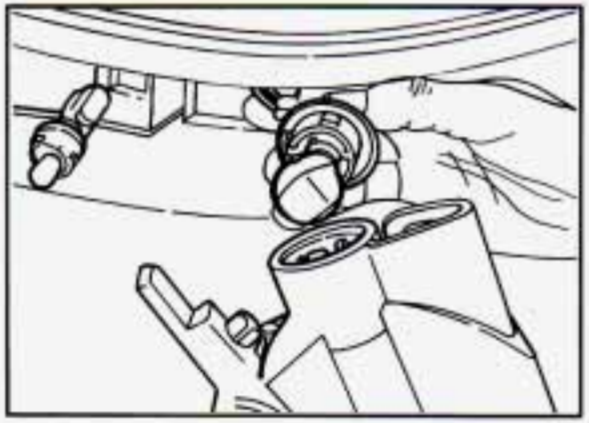
Front Sidemarker Lights

1. Remove the screw in the lens.
2. Remove the front sidemarker light assembly. There is a snap-in connector at the front of the assembly, so you may have to pry carefully on the rear of the assembly to remove it.
3. Turn the bulb socket counterclockwise and pull it out.
4. Pull the bulb straight out.
5. Reverse the steps with a new bulb.

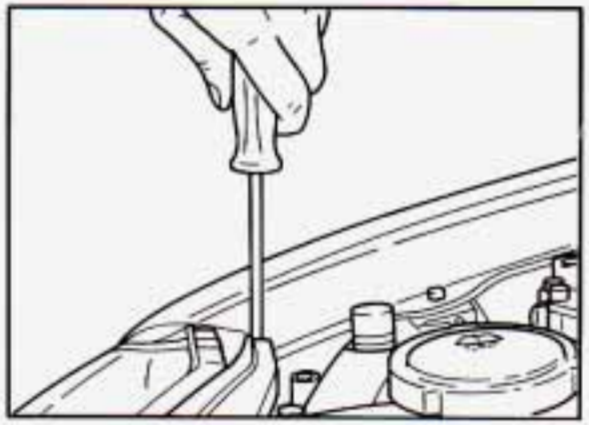


Front Turn Signal Lights

1. Remove the screw in the parking light lens and remove parking light assembly.
2. Remove the screw from the turn signal assembly.
3. Pull on the rear edge of the assembly, slide it toward the rear and pull it out to remove it.

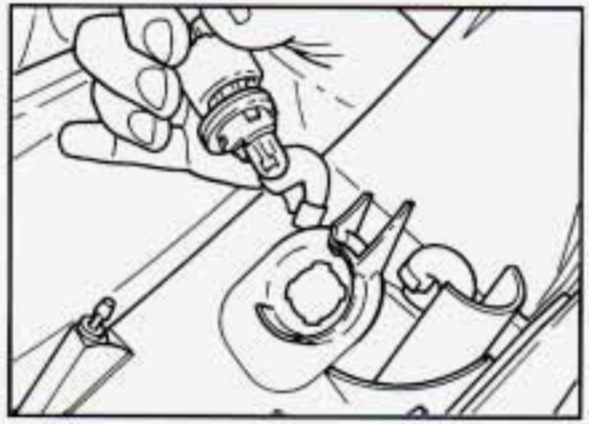


4. Turn the bulb socket counterclockwise and pull it out.
5. Push the bulb in, turn it counterclockwise and pull it out.
6. Reverse the steps with a new bulb.

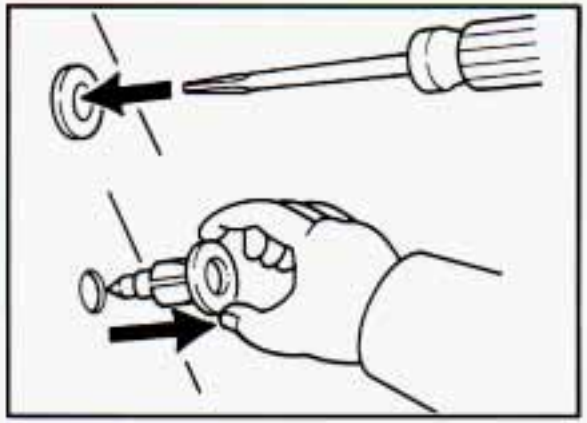


Parking Lights

1. Remove the screw near the top outside of the headlight assembly.
2. Remove the parking light assembly. There is a snap-in connector in the assembly, so you may have to pry carefully on the inside edge of the assembly to remove it.

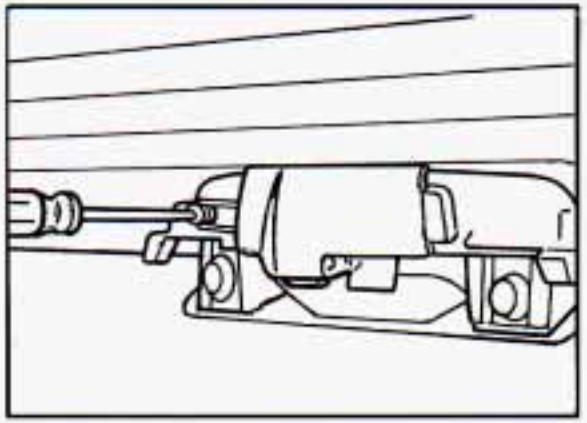


3. Turn the bulb socket clockwise and pull it out.
4. Pull the bulb straight out.
5. Reverse the steps with a new bulb.

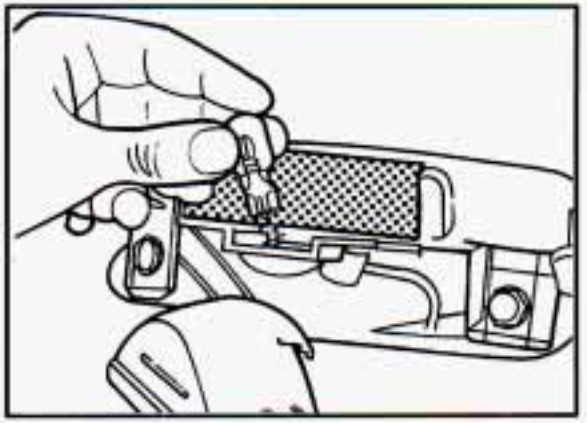


Center High-Mounted Stoplight

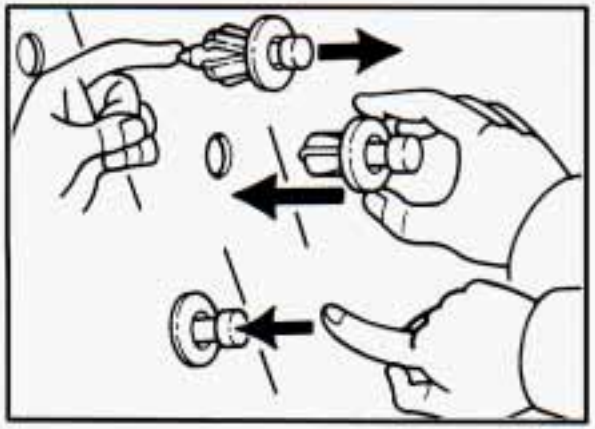
1. Push in the center of the clips on both sides of the high-mounted stoplight housing.
2. Pull the clips out.
3. Remove the cover.



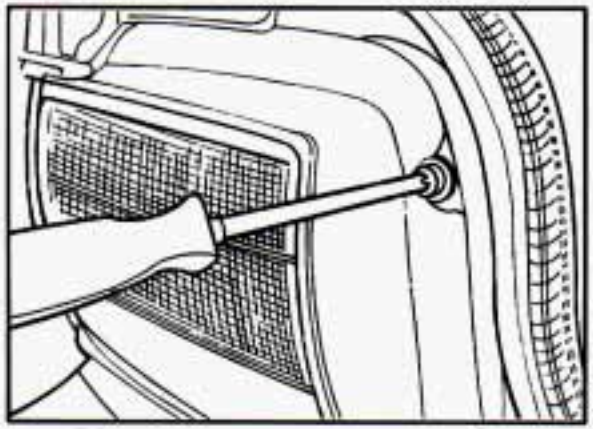
4. Remove the screw from the stoplight reflector.
5. Remove the stoplight reflector.



6. Pull the bulb straight out.



7. Reverse the steps with a new bulb.
   - Push the center of the clip so it slides part way out, put the clip into the housing and then push the center in.

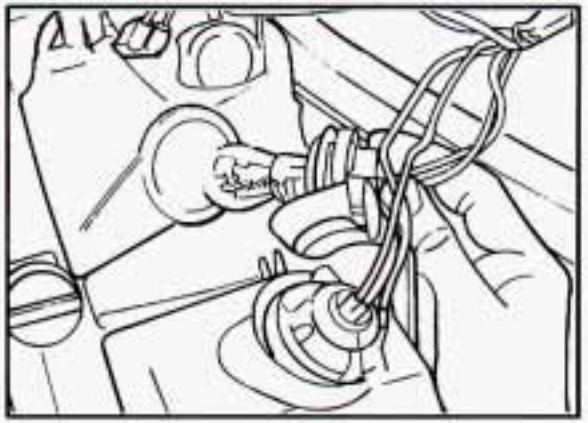


Rear Combination Lights

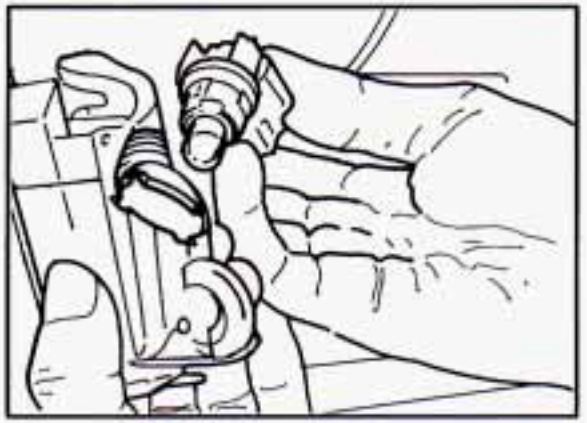
The combination light assembly include the taillight/stoplight, turn signal and sidemarker bulbs.

1. Open the trunk.
2. Remove the two bolts from the lens assembly.
3. Remove the trunk trim.
   - Move the carpet.
   - Loosen the two clips on the trunk trim near the trunk opening. Pop the clips out.
   - Pull the trunk trim away from the rear of the trunk.

4. Remove the nut from the stud near the rear corner of the trunk.

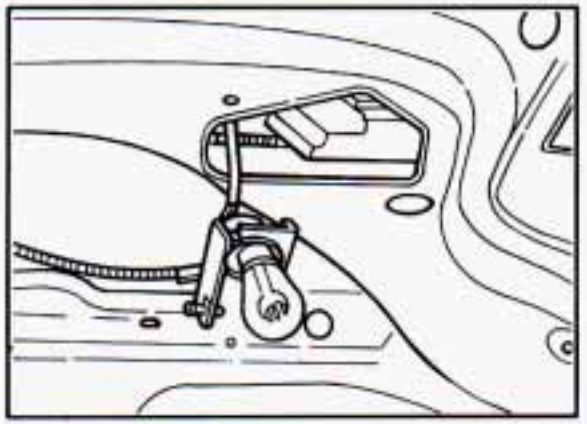


5. Remove the rear combination light assembly. There is a snap-in connector in the assembly, so you may have to pull carefully on the inside edge of the assembly to remove it.
6. Turn the bulb socket counterclockwise and pull it out.
7. For the tail/stop or turn signal lights, push the bulb in, turn it counterclockwise and pull it out. For the sidemarker bulb, pull it straight out.
8. Reverse the steps with a new bulb.



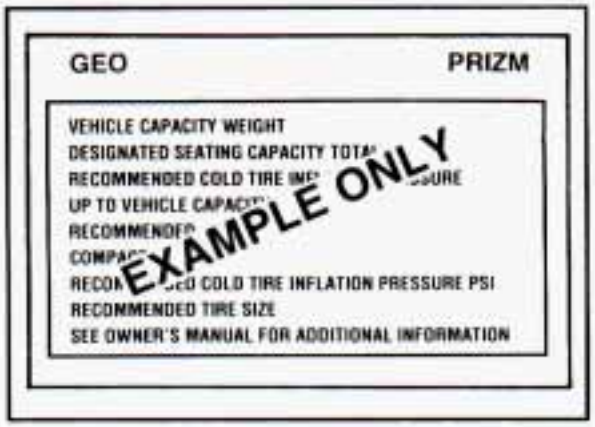
License Plate Light

1. Pry on the lever on the license plate light assembly and lower it out of the bumper.
2. Turn the bulb socket counterclockwise and pull it out of the light assembly.
3. Pull the bulb straight out.
4. Reverse the steps with a new bulb.
   - When you put the light assembly back into the bumper, put the side without the lever in first, then snap in the lever side.



Back-up Light

1. Open the trunk.
2. Remove the trim on the trunk lid (if your vehicle is so equipped).
3. Remove the screw from the back-up light.
4. Pull the bulb housing assembly through the opening in the trunk lid.
5. Push the bulb in, turn it counterclockwise and pull it out.
6. Reverse the steps with a new bulb.



■ *Loading Your Vehicle*

Two labels on your vehicle show how much weight it may properly carry. The Tire-Loading Information label found in the glove compartment tells you the proper size, speed rating and recommended inflation pressures for the tires on your vehicle. It also gives you important information about the number of people that can be in your vehicle and the total weight that you can carry. This weight is called the Vehicle Capacity Weight and includes the weight of all occupants, cargo, and all nonfactory-installed options.

The other label is the Certification label, found on the rear of the driver's door opening. It tells you the gross weight capacity of your vehicle, called the GVWR (Gross Vehicle Weight Rating). The GVWR includes the weight of the vehicle, all occupants, fuel and cargo. Never exceed the GVWR for your vehicle, or the Gross Axle Weight Rating (GAWR) for either the front or rear axle.

And, if you do have a heavy load, you should spread it out. Don't carry more than 125 pounds (56.7 kilograms) in your trunk.

⚠ CAUTION:

Do not load your vehicle any heavier than the GVWR or the maximum front and rear GAWRs. If you do, parts on your vehicle can break, or it can change the way your vehicle handles. These could cause you to lose control. Also, overloading can shorten the life of your vehicle.

NOTICE:

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

If you put things inside your vehicle — like suitcases, tools, packages, or anything else — they will go as fast as the vehicle goes. If you have to stop or turn quickly, or if there is a crash, they'll keep going.

⚠ CAUTION:

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

- Put things in the trunk of your vehicle. In a trunk, put them as far forward as you can. Try to spread the weight evenly.
- Never stack heavier things, like suitcases, inside the vehicle so that some of them are above the tops of the seats.
- When you carry something inside the vehicle, secure it whenever you can.
- Don't leave a seat folded down unless you need to.

■ *Tires*

We don't make tires. Your new vehicle comes with high quality tires made by a leading tire manufacturer. These tires are warranted by the tire manufacturers and their warranties are delivered with every new Geo. If your spare tire is a different brand than your road tires, you will have a tire warranty folder from each of these manufacturers.

⚠ 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.
- 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 Tire-Loading Information label which is in the glove compartment 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 a mile.

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:

- Too much flexing
- Too much heat
- Tire overloading
- Bad wear
- Bad handling
- Bad fuel economy.

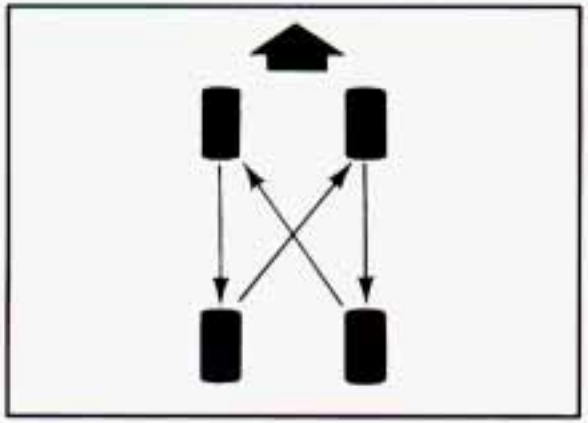
If your tires have too much air (overinflation), you can get:

- 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. Simply looking at the tires will not tell you the pressure, especially if you have radial tires — which may look properly inflated even if they're underinflated.

If your tires have valve caps, be sure to put them back on. They help prevent leaks by keeping out dirt and moisture.



Tire Inspection and Rotation

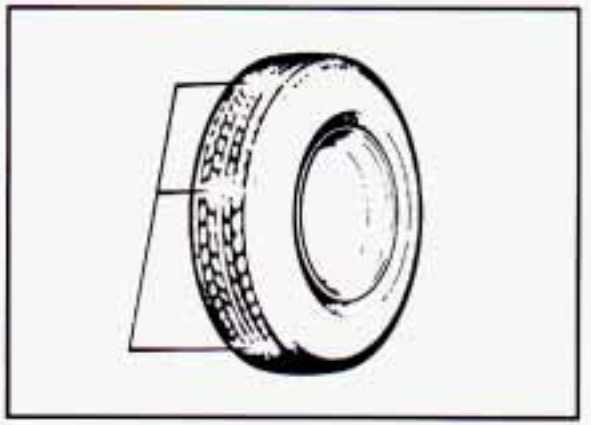
To make your tires last longer, have them inspected and rotated at the mileages recommended in your Maintenance Schedule. See "Scheduled Maintenance Services" in the Index.

Use this rotation pattern.

After the tires have been rotated, adjust the front and rear inflation pressure as shown on the Tire-Loading Information label. Make certain that all wheel nuts are properly tightened. See "Wheel Nut Torque" in the Index.

⚠ CAUTION:

Rust or dirt on a wheel, or on the parts to which it is fastened, can make wheel nuts become loose after a time. The wheel could come off and cause an accident. When you change a wheel, remove any rust or dirt from places where the wheel attaches to the vehicle. In an emergency, you can use a cloth or a paper towel to do this; but be sure to use a scraper or wire brush later, if you need to, to get all the rust or dirt off. (See "Changing a Flat Tire" in the Index.)



When It's Time for New Tires

One way to tell when it's time for new tires is to check the treadwear indicators, which will appear when your tires have only 2/32 inch (1.6 mm) or less of tread remaining.

You need a new tire if:

- You can see the indicators at three or more places around the tire.
- You can see cord or fabric showing through the tire's rubber.
- The tread or sidewall is cracked, cut or snagged deep enough to show cord or fabric.
- The tire has a bump, bulge or split.

- The tire has a puncture, cut, or other damage that can't be repaired well because of the size or location of the damage.

Buying New Tires

To find out what kind and size of tires you need, look at the Tire-Loading Information label.

Make sure the replacements 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. Be sure to use the same size and type tires on all four wheels.

It's all right to drive with your compact spare, though. It was developed for use 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.)

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 — A, B, C

The traction grades, from highest to lowest are: A, B, and C. They 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 braking (straight-ahead) traction tests and does not include cornering (turning) traction.

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.

These grades are molded on the sidewalls of passenger car tires.

While the tires available as standard or optional equipment on General Motors vehicles may vary with respect to these grades, all such tires meet General Motors performance standards and have been approved for use on General Motors vehicles. All passenger type (P Metric) tires must conform to Federal safety requirements in addition to these grades.

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.

In most cases, you will not need to have your wheels aligned again. 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. 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 Geo 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 Geo.

⚠ 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/odometer calibration, headlight aim, bumper height, vehicle ground clearance, and tire or tire chain clearance to the body and chassis.

Used Replacement Wheels

⚠ CAUTION:

Putting a used wheel on your vehicle is dangerous. You can't know how it's been used or how many miles 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:

Use tire chains only where legal and only when you must. Use only SAE Class "S" type chains that are the proper size for your tires. Install them on the front tires and tighten them as tightly as possible with the ends securely fastened. Drive slowly and follow the chain manufacturer's instructions. If you can hear the chains contacting your vehicle, stop and retighten them. If the contact continues, slow down until it stops. Driving too fast 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 Geo, 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 Geo

Use a vacuum cleaner often to get rid of dust and loose dirt. Wipe vinyl or leather with a clean, damp cloth.

Your Geo dealer has two GM cleaners, a solvent-type spot lifter and a foam-type powdered cleaner. They will clean normal spots and stains very well. Do not use them on vinyl or leather.

Here are some cleaning tips:

- Always read the instructions on the cleaner label.
- Clean up stains as soon as you can – before they set.

- Use a clean cloth or sponge, and change to a clean area often. A soft brush may be used if stains are stubborn.
- Use solvent-type cleaners in a well-ventilated area only. If you use them, don't saturate the stained area.
- If a ring forms after spot cleaning, clean the entire area immediately or it will set.

Using Foam-Type Cleaner on Fabric

- Vacuum and brush the area to remove any loose dirt.
- Always clean a whole trim panel or section. Mask surrounding trim along stitch or welt lines.
- Mix Multi-Purpose Powdered Cleaner following the directions on the container label.
- Use suds only and apply with a clean sponge.
- Don't saturate the material.
- Don't rub it roughly.
- As soon as you've cleaned the section, use a sponge to remove the suds.
- Rinse the section with a clean, wet sponge.
- Wipe off what's left with a slightly damp paper towel or cloth.
- Then dry it immediately with a blow dryer or a heat lamp.

NOTICE:

Be careful with a hair dryer or heat lamp. You could scorch the fabric.

- Wipe with a clean cloth.

Using Solvent-Type Cleaner on Fabric

First, see if you have to use solvent-type cleaner at all. Some spots and stains will clean off better with just water and mild soap.

If you need to use a solvent:

- Gently scrape excess soil from the trim material with a clean, dull knife or scraper. Use very little cleaner, light pressure and clean cloths (preferably cheesecloth). Cleaning should start at the outside of the stain, "feathering" toward the center. Keep changing to a clean section of the cloth.
- When you clean a stain from fabric, immediately dry the area with an air hose, hair dryer, or heat lamp to help prevent a cleaning ring. (See the previous NOTICE.)

Fabric Protection

Your Geo has upholstery that has been treated with Scotchgard™ Fabric Protector, a 3M product. Scotchgard™ protects fabrics by repelling oil and water, which are the carriers of most stains. Even with this protection, you still need to clean your upholstery often to keep it looking new.

Further information on cleaning is available by calling 1-800-433-3296 (in Minnesota, 1-800-642-6167).

Special Cleaning Problems

Greasy or oily stains: Such as grease, oil, butter, margarine, shoe polish, coffee with cream, chewing gum, cosmetic creams, vegetable oils, wax crayon, tar and asphalt.

- Carefully scrape off excess stain.
- Follow the solvent-type instructions described earlier.

- Shoe polish, wax crayon, tar and asphalt will stain if left on a vehicle seat fabric. They should be removed as soon as possible. Be careful, because the cleaner will dissolve them and may cause them to spread.

Non-greasy stains: Such as catsup, coffee (black), egg, fruit, fruit juice, milk, soft drinks, wine, vomit, urine and blood.

- Carefully scrape off excess stain, then sponge the soiled area with cool water.
- If a stain remains, follow the foam-type instructions above.
- 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.
- If needed, clean lightly with solvent-type cleaner.

Combination stains: Such as candy, ice cream, mayonnaise, chili sauce and unknown stains.

- Carefully scrape off excess stain, then clean with cool water and allow to dry.
- If a stain remains, clean it with solvent-type 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 solvent-type vinyl cleaner.

Cleaning Leather

Use a soft cloth with lukewarm water and a mild soap or saddle soap.

- For stubborn stains, use a mild solution of 10% isopropyl alcohol (rubbing alchohol) and 90% water.
- Never use oils, varnishes, solvent-based or abrasive cleaners, furniture polish or shoe polish on leather.
- Soiled leather should be cleaned immediately. If dirt is allowed to work into 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.

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.

Glass

Glass should be cleaned often. GM Glass Cleaner (GM Part No. 1050427) or a liquid household glass cleaner will remove normal tobacco smoke and dust films.

Don't use abrasive cleaners on glass, because they may cause scratches. Avoid placing decals on the inside rear window, since they may have to be scraped off later. If abrasive cleaners are used on the inside of the rear window, an electric defogger element may be damaged. Any temporary license should not be attached across the defogger grid.

Cleaning the Outside of the Windshield and Wiper Blades

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

Clean the outside of the windshield with GM Windshield Cleaner, Bon-Ami Powder® (GM Part No. 1050011). The windshield is clean if beads do not form when you rinse it with water.

Clean the blade by wiping vigorously with a cloth soaked in full strength windshield washer solvent. Then rinse the blade with water.

Wiper blades should be checked on a regular basis and replaced when worn.

Cleaning the Outside of Your Geo

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. Don't use strong soaps or chemical detergents. Use liquid hand, dish or car washing (mild detergent) soaps. Don't use cleaning agents that are petroleum based, or 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 a 100% cotton towel to avoid surface scratches and water spotting.

High pressure car washes may cause water to enter your vehicle.

Finish Care

Occasional waxing or mild polishing of your Geo 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 Geo 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.

Aluminum Wheels (If So Equipped)

Your aluminum wheels have a protective coating similar to the painted surface of your vehicle. Don't use strong soaps, chemicals, chrome polish, abrasive cleaners or abrasive cleaning brushes on them because you could damage this coating. After rinsing thoroughly, a wax may be applied.

NOTICE:

If you have aluminum wheels, don't use an automatic vehicle wash that has hard silicon carbide cleaning brushes. These brushes can take off the protective coating.

Tires

Your Geo dealer has a GM White Sidewall Tire Cleaner. You can use a stiff brush with the cleaner.

When applying a tire dressing always take care to wipe off any overspray or splash from painted surfaces. Petroleum-based products may damage the paint finish.

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.)

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.

Foreign Material

Calcium chloride and other salts, ice melting agents, road oil and tar, tree sap, bird droppings, chemicals from industrial chimneys, and other foreign matter can damage your vehicle's finish if they remain on painted surfaces. Use cleaners that are marked safe for painted surfaces to remove foreign matter.

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 vehicle 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, Geo 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 comes first.

■ *Appearance Care Materials Chart*

PART NUMBER	SIZE	DESCRIPTION	USAGE
1051516	32 oz. (0.946 L)	Washer Solvent and Gas Liner De-Icer	Windshield washing system and gas line
1050172	16 oz. (0.473 L)	Tar and Road Oil Remover	Also old waxes, polishes
1050173	16 oz. (0.473 L)	Cleaner and Polish	Removes rust and corrosion on chrome and steel
1050174	16 oz. (0.473 L)	White Sidewall Tire Cleaner	Cleans white and black tires
1050214	32 oz. (0.946 L)	Vinyl/Leather Cleaner*	Spot and stain removal on leather and vinyl
1050244	16 oz. (0.473 L)	Fabric Cleaner*	Spot and stain removal on cloth and fabric
1050427	24 oz. (0.680 L)	Glass Cleaner	Glass cleaning and spot cleaning on vinyls
1050429	6 lb. (2.72 kg)	Multi-Purpose Powdered Cleaner	Vinyl, cloth, door trims, seats, carpet, tires, mats
1052870	16 oz. (0.473 L)	Wash-Wax (Concentrated)	Exterior wash
1051398	8 oz. (0.237 L)	Spot Lifter*	Spot and stain removal on cloth and fabric
1050201	16 oz. (0.473 L)	Magic Mirror Cleaner-Polish	Exterior cleaner and polish
1050011	12 oz. (0.340 kg)	Bon-Ami Powder*	Windshield cleaner

*Not recommended for pigskin suede leather.

See your General Motors Dealer for these products. See the Index under "Recommended Fluids and Lubricants" for other products.

■ *Vehicle Identification Number (VIN)*

This is the legal identifier for your Geo. 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 eighth 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 your spare tire cover. 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.

■ *Add-On Electrical Equipment*

NOTICE:

Don't add anything electrical to your Geo 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 Geo, see "Servicing Your Air-Bag Equipped Geo" in the Index.

■ *Fuses and Circuit Breakers*

The wiring circuits in your vehicle are protected from short circuits by fuses, circuit breakers and fusible thermal links in the wiring itself. This greatly reduces the chance of fires caused by electrical problems.

Your fuse block is beneath the instrument panel near the driver's door. For access to the fuses, pull the knob on the cover.

Most of your fuses are in the fuse block. Some are in two electrical centers in your engine compartment. These electrical centers, plus a component center behind your glove box, also have relays, circuit breakers and other electrical components. The larger electrical center in the engine compartment has a fuse puller attached to the inside of the cover. You can use the puller to remove any fuses.

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 correct size.

If you ever have a problem on the road and don't have a spare fuse, you can borrow one. 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 of the value you need. Replace it as soon as you can.

Before replacing a fuse, turn every vehicle electrical switch off.

Headlights

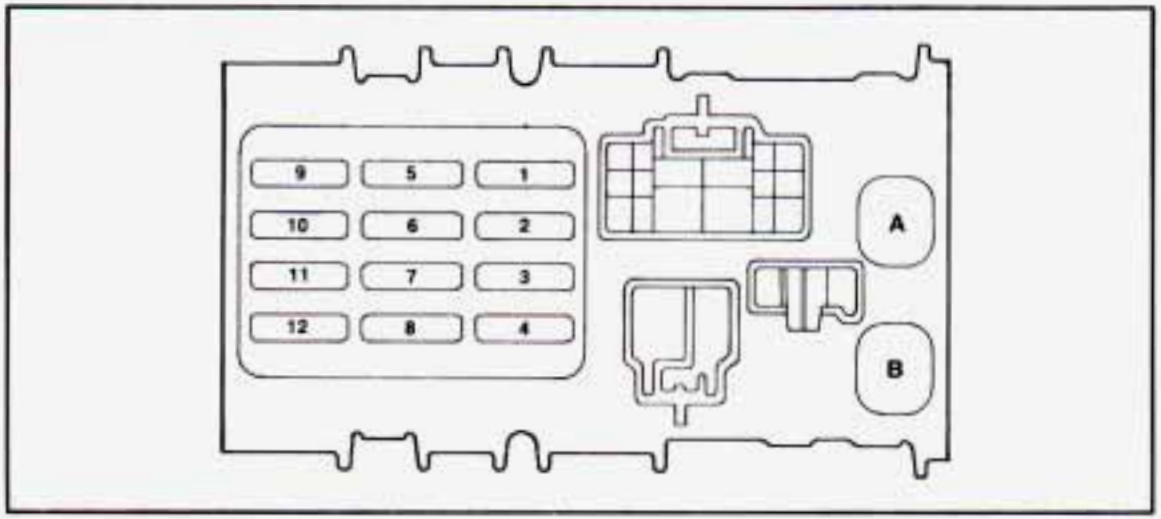
The headlight wiring is protected by a circuit breaker. An electrical overload will cause the lights to go on and off, or in some cases to remain off. If this happens, have your headlight wiring checked right away.

Windshield Wipers

The windshield wiper motor is protected by a circuit breaker and a fuse. If the motor overheats due to heavy snow, etc., the wiper will stop until the motor cools. If the overload is caused by some electrical problem and not snow, etc., be sure to get it fixed.

Power Windows and Other Power Options

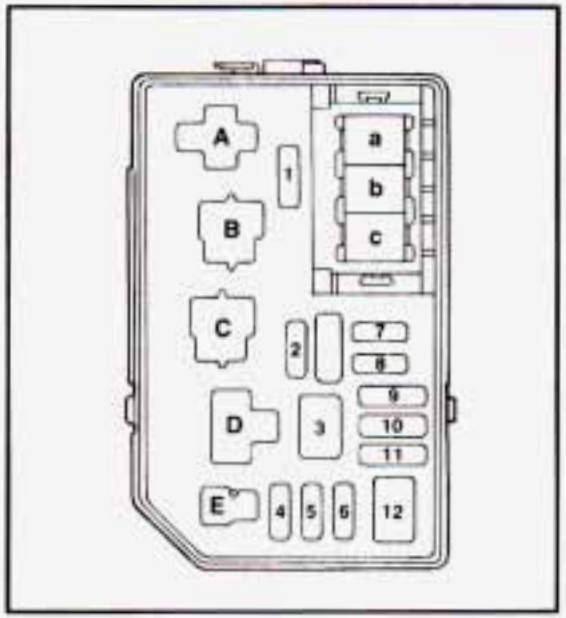
Circuit breakers protect the power windows and other power accessories. When the current load is too heavy, the circuit breaker opens and closes, protecting the circuit until the problem is fixed or goes away.



Fuse Block

Driver Side Instrument Panel

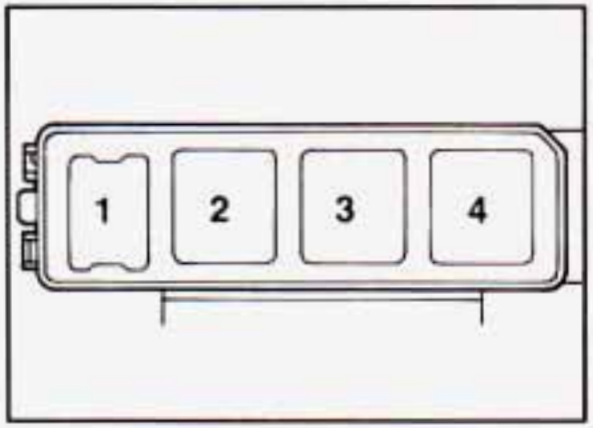
1 — Not Used
2 — Ignition (10 Amp.)
3 — Stop (15 Amp.)
4 — Not Used
5 — Cigarette Lighter and Radio (20 Amp.)
6 — ECU-B (10 Amp.)
7 — Turn Signal (7.5 Amp.)
8 — Gage (10 Amp.)
9 — Taillight (15 Amp.)
10 — Defogger – I/UP (7.5 Amp.)
11 — ECU-IG (15 Amp.)
12 — Wiper (20 Amp.)
A — Power (30 Amp.)
B — Defroster (30 Amp.)



Engine Compartment

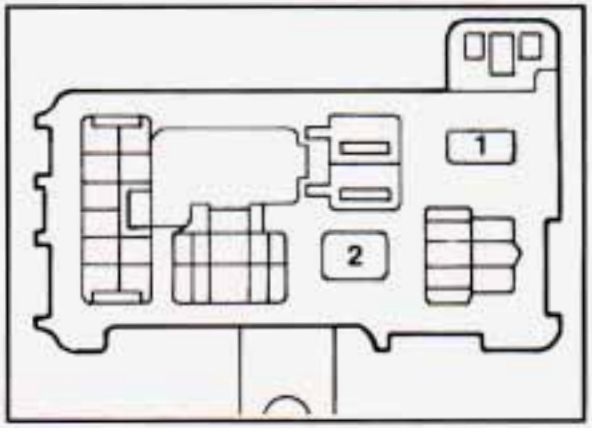
1 — Electronic Fuel Injection F/HTR (15 Amp.)
2 — Alternator-S (7.5 Amp.)
3 — Fan (30 Amp.)
4 — Dome Light (20 Amp.)
5 — Hazard Warning Flashers; Horn (20 Amp.)
6 — Fan – I/UP (7.5 Amp.)
7 — Left Head (15 Amp.)

8 — Right Head (15 Amp.)
9 — Not Used (Spare)
10 — Not Used (Spare)
11 — Not Used (Spare)
12 — AM2 (30 Amp.)
a — Anti-Lock Brake System (50 Amp.)
b — Alternator (100 Amp.)
c — AM1 (40 Amp.)
A — Electronic Fuel Injection F/HTR Relay
B — Headlight Relay
C — Engine Main Relay
D — Fan Relay #1
E — Horn Relay



Engine Compartment Relay Block

1 — CDS (30 Amp.)
2 — Air Conditioner MG Relay
3 — Air Conditioner Fan Relay #3
4 — Air Conditioner Fan Relay #2



Passenger Side Kick Panel

1 — Air Conditioner (15 Amp.)
2 — Heater (40 Amp.)

■ *Replacement Bulbs*

■ *Capacities and Specifications*

Engine

Type	L4
Compression Ratio	9.5:1
Firing Order	1–3–4-2
Fuel Delivery	Multi-Port Fuel Injection
Piston Displacement	
VIN Engine Code 6	97 CID (1.6L)
VIN Engine Code 8	108 CID (1.8L)
Valve Arrangement	Double Overhead Cam
Thermostat Temperature Specification	180°F (82°C)

Replacement Parts

Air Cleaner Filter	A1164C
Battery	35-60
Engine Oil Filter	GM Part No. 94842810
Spark Plug	GM Part No. 94853696

Wheel Nuts

Wheel Nut Torque	76 lb. ft. (103 N·m)

Capacities (Approximate)

The following approximate capacities are given in U.S. and metric conversions.

Air Conditioning†	See the refrigerant information label under hood.
Automatic Transaxle	
3-Speed	2.6 qt. (2.5L)**
4-Speed	3.5 qt. (3.3L)**
Differential (3-speed only)	1.5 qt. (1.4L)

† Not all air conditioning refrigerants are the same. If the air conditioning system in your vehicle needs refrigerant, be sure the proper refrigerant is used. If you're not sure, ask your Geo dealer.

Capacities (Approximate) – continued

Cooling System	
Manual Transaxle	
VIN Engine Code 6	6.3 qt. (6.0L)
VIN Engine Code 8	6.6 qt. (6.2L)
Automatic Transaxle	
VIN Engine Code 6	6.2 qt. (5.9L)
VIN Engine Code 8	6.4 qt. (6.1L)
Crankcase	
VIN Engine Code 6	
Oil Change With Filter	3.2 qt. (3.0L)*
Oil Change Without Filter	3.0 qt. (2.8L)*
VIN Engine Code 8	
Oil Change With Filter	3.9 qt. (3.7L)*
Oil Change Without Filter	3.7 qt. (3.5L)*
Fuel Tank	13.2 gal. (50 L)
Manual Transaxle	2.7 qt. (2.6 L)**

* When changing the oil filter, additional oil may be needed. Recheck the oil level after filling. See "Engine Oil" in the Index.

** Recheck fluid level after filling. See "Automatic Transaxle Fluid" or "Manual Transaxle Fluid" in the Index.

Vehicle Dimensions

Wheelbase	97.1″ (2 465 mm)
Tread	
Front	57.5″ (1 460 mm)
Rear	57.1″ (1 450 mm)
Length	173.0″ (4 395 mm)
Width	66.3″ (1 685 mm)
Height	53.3″ (1 355 mm)

IMPORTANT:
KEEP THE ENGINE OIL AT THE PROPER LEVEL AND CHANGE AS RECOMMENDED

This part covers the maintenance required for your Geo. Your vehicle needs these services to retain its safety, dependability and emission control performance.

Part 7
Maintenance Schedule

Section

Maintenance Schedule

Introduction: A Word about Maintenance

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 GM vehicles, maintenance needs vary. You may even need more frequent checks and replacements than you will find in the schedules in this part. So please read this part and note how you drive. If you have any questions on how to keep your vehicle in good condition, see your Geo dealer, the place many GM owners choose to have their maintenance work done. Your dealer can be relied upon to use proper parts and practices.

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 or the removal of important components can significantly affect the quality of the air we breathe. Improper fluid levels or even the wrong tire inflation can increase the level of emissions from your vehicle. To help protect our environment, and to help keep your vehicle in good condition, please maintain your vehicle properly.

How This Part is Organized

The remainder of this part is divided into five sections:

"Section 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 are skilled enough to do some work on your vehicle, you will probably want to get the service information GM publishes. You will find a list of publications and how to get them in this manual. See "Service Publications" in the Index.

"Section B: Owner Checks and Services" tells you what should be checked whenever you stop for fuel. It also explains what you can easily do to help keep your vehicle in good condition.

"Section C: Periodic Maintenance Inspections" explains important inspections that your Geo dealer's service department or another qualified service center should perform.

"Section D: Recommended Fluids and Lubricants" lists some products GM recommends 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.

"Section E: Maintenance Record" provides a place for you to record the maintenance performed on your vehicle. Whenever any maintenance is performed, be sure to write it down in this section. This will help you determine when your next maintenance should be done. In addition, it is a good idea to keep your maintenance receipts. They may be needed to qualify your vehicle for warranty repairs.

■ *Section A: Scheduled Maintenance Services*

Using Your Maintenance Schedules

This section tells you the maintenance services you should have done and when you should schedule them. Your Geo dealer knows your vehicle best and wants you to be happy with it. 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.

These schedules are for vehicles that:

- carry passengers and cargo within recommended limits. You will find these limits on your vehicle's Tire-Loading Information label. See "Loading Your Vehicle" in the Index.
- are driven on reasonable road surfaces within legal driving limits.
- use the recommended unleaded 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:

Schedule I

Is any one of these true for your vehicle?

- Most trips are less than 4 miles (6 km).
- Most trips are less than 10 miles (16 km) when outside temperatures are below freezing.
- The engine is at low speed most of the time (as in door-to-door delivery, or in stop-and-go traffic).
- You operate your vehicle in dusty areas.
- You tow a trailer.

If any one (or more) of these is true for your driving, follow Schedule I.

Schedule II

Follow Schedule II only if none of the above conditions is true.

Maintenance Schedule

Section A: Scheduled Maintenance Services

Schedule I

Follow Schedule I if your vehicle is MAINLY driven under one or more of the following conditions:

- When most trips are less than 4 miles (6 km).
- When most trips are less than 10 miles (16 km) and outside temperatures remain below freezing.
- When most trips include extended idling and/or frequent low-speed operation, as in stop-and-go traffic.
- When towing a trailer.
- When operating in dusty areas.

Schedule I should also be followed if the vehicle is used for delivery service, police, taxi or other commercial applications.

* *An Emission Control Service.*

† *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 vehicle useful life. General Motors, however, urges that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded in "Section E: Maintenance Record."*

ITEM NO.	**WHAT TO SERVICE** *See "Explanation of Scheduled Maintenance Services" following Schedules I and II.*	**WHEN TO PERFORM** *Miles (kilometers) or Months (whichever occurs first).*
1	Engine Oil and Filter Change*	Every 3,750 miles (6 250 km) or 6 months.
2	Chassis Lubrication	Every other oil change.
3	Tire and Wheel Rotation and Inspection	Every 7,500 miles (12 500 km).
4	Engine Accessory Drive Belts Inspection	At 60,000 miles (100 000 km) or 72 months and then every 7,500 miles (12 500 km) or 12 months.
5	Cooling System Service*	At 45,000 miles (75 000 km) or 36 months and then every 30,000 miles (50 000 km) or 24 months.
6	Transaxle Service	See "Explanation of Scheduled Maintenance Services" following Schedules I and II.
7	Spark Plug Replacement*	Every 30,000 miles (50 000 km).
8	Air Cleaner Filter Replacement*	See "Explanation of Scheduled Maintenance Services" following Schedules I and II.
9	Fuel Tank Cap Gasket Replacement*	Every 60,000 miles (100 000 km) or 72 months.
10	Fuel Lines and Connections Inspection*†	Every 30,000 miles (50 000 km) or 36 months.
11	Evaporative Emissions Canister Inspection*	Every 60,000 miles (100 000 km) or 72 months.
12	Valve Clearance Adjustment*	Every 60,000 miles (100 000 km) or 72 months.
13	Engine Timing Belt Replacement*†	See "Explanation of Scheduled Maintenance Services" following Schedules I and II.

The services shown on this chart up to 60,000 miles (100 000 km) should be performed after 60,000 miles (100 000 km) at the same intervals.

MILES															
3,750	7,500	11,250	15,000	18,750	22,500	26,250	30,000	33,750	37,500	41,250	45,000	48,750	52,500	56,250	60,000
KILOMETERS															
6 250	12 500	18 750	25 000	31 250	37 500	43 750	50 000	56 250	62 500	68 750	75 000	81 250	87 500	93 750	100 000
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Maintenance Schedule

Section A: Scheduled Maintenance Services (Cont.)

Schedule II

Follow Schedule II ONLY if none of the driving conditions specified in Schedule I apply.

* *An Emission Control Service.*

† *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 vehicle useful life. General Motors, however, urges that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded in "Section E: Maintenance Record."*

ITEM NO.	WHAT TO SERVICE *See "Explanation of Scheduled Maintenance Services" following Schedules I and II.*	WHEN TO PERFORM *Miles (kilometers) or Months (whichever occurs first).*
1	Engine Oil and Filter Change*	Every 7,500 miles (12 500 km) or 12 months.
2	Chassis Lubrication	Every 7,500 miles (12 500 km) or 12 months.
3	Tire and Wheel Rotation and Inspection	At 7,500 miles (12 500 km) and then every 15,000 miles (25 000 km) or as necessary.
4	Engine Accessory Drive Belts Inspection	At 60,000 miles (100 000 km) or 72 months and then every 7,500 miles (12 500 km) or 12 months.
5	Cooling System Service*	At 45,000 miles (75 000 km) or 36 months and then every 30,000 miles (50 000 km) or 24 months.
6	Transaxle Service	See "Explanation of Scheduled Maintenance Services" following Schedules I and II.
7	Spark Plug Replacement*	Every 30,000 miles (50 000 km).
8	Air Cleaner Filter Replacement*	See "Explanation of Scheduled Maintenance Services" following Schedules I and II.
9	Fuel Tank Cap Gasket Replacement*	Every 60,000 miles (100 000 km) or 72 months.
10	Fuel Lines and Connections Inspection*†	Every 30,000 miles (50 000 km) or 36 months.
11	Evaporative Emissions Canister Inspection*	Every 60,000 miles (100 000 km) or 72 months.
12	Valve Clearance Adjustment*	Every 60,000 miles (100 000 km) or 72 months.

The services shown on this chart up to 75,000 miles (125 000 km) should be performed after 75,000 miles (125 000 km) at the same intervals.

MILES									
7,500	15,000	22,500	30,000	37,500	45,000	52,500	60,000	67,500	75,000
KILOMETERS									
12 500	25 000	37 500	50 000	62 500	75 000	87 500	100 000	112 500	125 000
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Maintenance Schedule

Section A: Scheduled Maintenance Services (Cont.)

Explanation of Scheduled Maintenance Services

Following are explanations of the services listed in Schedule I and Schedule II.

The proper fluids and lubricants to use are listed in Section 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.

ITEM NO. SERVICE

1 Engine Oil and Filter Change* – Always use SH or SG Energy Conserving II oils of proper viscosity. The "SH" or "SG" designation may be shown alone, or in combination with others, such as "SH/CD," "SH, SG, CD," "SG/CD," etc.

To determine the preferred viscosity for your vehicle's engine (e.g., SAE 5W-30 or SAE 10W-30), see "Engine Oil" in the Index.

2 Chassis Lubrication – Lubricate the transaxle shift linkage, parking brake cable guides, underbody contact points and linkage.

3 Tire and Wheel Rotation and Inspection – For proper wear and maximum tire life, rotate your tires following the instructions in this manual. See "Tires, Inspection and Rotation" in the Index. Check the tires for uneven wear or damage. If you see irregular or premature wear, check the wheel alignment. Check for damaged wheels also.

4 Engine Accessory Drive Belt(s) Inspection – Inspect the belt(s) for cracks, fraying, wear and proper tension. Replace as needed. (Belts can have many small cracks in individual ribs without affecting performance.)

5 Cooling System Service* – Drain, flush and refill the system with new or approved recycled coolant conforming to GM Specification 1825M. Keep coolant at the proper mixture as specified. See "Coolant" in the Index. This provides proper freeze and boil protection, corrosion inhibitor level and maintains proper engine operating temperature.

Inspect hoses and replace if they are cracked, swollen or deteriorated. Tighten screw-type hose clamps. Clean the outside of the radiator and air conditioning condenser. Wash the pressure cap and neck.

To help ensure proper operation, we recommend a pressure test of both the cooling system and the pressure cap.

** An Emission Control Service.*

ITEM NO.	SERVICE
6	Transaxle Service – Change the fluid in the transaxle and differential 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 car or delivery service. If you do not use your vehicle under any of these conditions, inspect the fluid every 15,000 miles (25 000 km).
7	Spark Plug Replacement* – Replace spark plugs with the proper type. See "Replacement Parts" in the Index.
8	Air Cleaner Filter Replacement* – Replace every 30,000 miles (50 000 km) or more often under dusty conditions. Ask your dealer for the proper replacement intervals for your driving conditions.
9	Fuel Tank Cap Gasket Replacement* – Replace the gasket. Make sure the new gasket is properly installed.
10	Fuel Lines and Connections Inspection*† – Inspect fuel lines, connections and tank band for corrosion, damage, cracks or loose or leaking connections. Tighten the connections or replace the parts as necessary. Periodic replacement of the fuel filter is not required.
11	Evaporative Emissions Canister Inspection* – Inspect for internal damage or clogging. Clean with compressed air or replace if necessary.
12	Valve Clearance Adjustment* – The valve clearance should be adjusted to factory specifications.
13	Engine Timing Belt Replacement*† – Replace at 60,000 miles (100 000 km) for vehicles frequently idled for extensive periods and/or driven for long distances at low speed, such as found in police, taxi or door-to-door delivery service.

* *An Emission Control Service.*

† *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 vehicle useful life. General Motors, however, urges that all recommended maintenance services be performed at the indicated intervals and the maintenance be recorded in "Section E: Maintenance Record."*

Maintenance Schedule

Section B: Owner Checks and Services

Listed below 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 Section D.

At Each Fuel Fill *(It is important for you or a service station attendant to perform these underhood checks at each fuel fill.)*

CHECK OR SERVICE	WHAT TO DO
Engine Oil Level	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 the engine coolant level and add the proper coolant mix if necessary. See "Coolant" in the Index for further details.
Windshield Washer Fluid Level	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.
Hood Latch Operation	Pull the primary hood latch release handle inside the vehicle. The secondary latch should keep the hood from opening all the way when the primary latch is released. Make sure the hood closes firmly. See "Hood Release" in the Index for further details.

At Least Once a Month

CHECK OR SERVICE	WHAT TO DO
Tire Inflation	Check tire inflation. Make sure they are inflated to the pressures specified on the Tire-Loading Information label located on the inside of the glove box door. See "Tires" in the Index for further details.
Cassette Deck	Clean cassette deck. Cleaning should be done every 15 hours of tape play. See "Audio Systems" in the Index for further details.

At Least Twice a Year

CHECK OR SERVICE	WHAT TO DO
Fluid Level Check	Check the power steering pump, hydraulic clutch and automatic or manual transaxle fluid levels and add as needed. See "Power Steering," "Hydraulic Clutch" and "Automatic Transaxle" or "Manual Transaxle" in the Index. A fluid loss in these systems could indicate a problem. Have the system inspected and repaired at once.

Maintenance Schedule

Section B: Owner Checks and Services (Cont.)

At Least Once a Year

CHECK OR SERVICE	WHAT TO DO
Key Lock Cylinders	Lubricate the key lock cylinders with the lubricant specified in Section D.
Seat Operation	Make sure the head restraints stay in position and all seat latches lock. Check that the recliner holds by pushing and pulling the seatback while it is reclined.
Starter Switch	**⚠ 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. 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. On automatic transaxle vehicles, try to start the engine in each gear. The starter should work only in "P" (Park) or "N" (Neutral). If the starter works in any other position, your vehicle needs service. On manual transaxle vehicles, put the shift lever in "N" (Neutral), push the clutch down halfway and try to start the engine. The starter should work only when the clutch is pushed down all the way to the floor. If the starter works when the clutch isn't pushed all the way down, your vehicle needs service.

At Least Once a Year (CONT.)

CHECK OR SERVICE	WHAT TO DO
Brake Transaxle Shift Interlock – BTSI (Automatic Transaxle)	**⚠ 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 "ON" position, but don't start the engine. Without applying the regular brake, try to move the shift lever out of "P" (Park) with normal effort. If the shift lever moves out of "P" (Park) , your vehicle's BTSI needs service.
Steering Column Lock	While parked, and with the parking brake set, try to turn the key to "LOCK" in each shift lever position. • With an automatic transaxle, the key should turn to "LOCK" only when the shift lever is in "P" (Park). • With a manual transaxle, the key should turn to "LOCK" only if you push the key in farther, while turning it towards "LOCK."

Maintenance Schedule

Section B: Owner Checks and Services (Cont.)

At Least Once a Year (CONT.)

CHECK OR SERVICE	WHAT TO DO
Parking Brake and Automatic Transaxle "P" (Park) 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: With the engine running and transaxle in "N" (Neutral), slowly remove foot pressure from the regular brake pedal. Do this until the vehicle is held by the parking brake only. • To check the "P" (Park) mechanism's holding ability: Shift to "P" (Park). Then release all brakes.
Underbody Flushing	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.

Maintenance Schedule

Section C: Periodic Maintenance Inspections

Listed below are inspections and services which should be performed at least twice a year (for instance, each spring and fall). You should let your GM dealer's service department or other qualified service center do these jobs. Make sure any necessary repairs are completed at once.

INSPECTION OR SERVICE	WHAT SHOULD BE DONE
Restraint Systems	Now and then, make sure all your belts, buckles, latch plates, retractors, anchorages and reminder systems are working properly. Look for any loose parts or damage. If you see anything that might keep a restraint system from doing its job, have it repaired.
Steering, Suspension and Front-Wheel-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 hookup, 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.
Throttle Linkage Inspection	Inspect the throttle linkage for interference or binding, and for damaged or missing parts. Replace parts as needed.

Maintenance Schedule

Section C: Periodic Maintenance Inspections (Cont.)

INSPECTION OR SERVICE	WHAT SHOULD BE DONE
Brake System Inspection	Inspect the complete system. Inspect brake lines and hoses for proper hookup, 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. NOTE: A low brake fluid level can indicate worn disc brake pads which may need to be serviced. Also, if the brake system warning light stays on or comes on, something may be wrong with the brake system. See "Brake System Warning Light" in the Index. If your vehicle is equipped with anti-lock brakes and the anti-lock brake system warning light stays on, comes on or flashes, something may be wrong with the anti-lock brake system. See "Anti-Lock Brake System Warning Light" in the Index.

Additional Service Center Inspection

The inspection listed below should be performed by your Geo dealer's service department or some other qualified service center. Make sure any necessary repairs are completed at once.

INSPECTION OR SERVICE	WHAT SHOULD BE DONE
Air Bag System Inspection	The air bag system should be inspected by a qualified technician at 120 months. After 120 months, have the system inspected every 24 months.

Maintenance Schedule

Section D: Recommended Fluids & Lubricants

NOTE: Fluids and lubricants identified below by name, part number or specification may be obtained from your GM Dealer.

USAGE	FLUID/LUBRICANT
Engine Oil	API service SH or SG Energy Conserving II oils of the proper viscosity. The "SH" designation may be shown alone or in combination with others, such as "SH/CD," or "SH, SG, CD," "SG/CD," etc. To determine the preferred viscosity for your vehicle's engine, see "Engine Oil" in the Index.
Engine Coolant	50/50 mixture of water (preferably distilled) and good quality ethylene glycol base antifreeze (GM Part No. 1052753 or equivalent) conforming to GM Specification 1825M or approved recycled coolant conforming to GM Specification 1825M.
Hydraulic Brake System	Delco-Supreme 11® Brake Fluid (GM Part No. 1052535 or equivalent DOT-3 brake fluid).
Hydraulic Clutch System	Hydraulic Clutch Fluid (GM Part No. 12345347 or equivalent).
Power Steering System	Dexron®-IIE Automatic Transmission Fluid.
Manual Transaxle	SAE 75W-90 GL-4 (GM Part No. 12346074 Castrol® Syntorq GL-4 or equivalent) or SAE 75W-90 GL-5 Gear Lubricant.
Automatic Transaxle	DEXRON®-III or DEXRON®-IIE Automatic Transmission Fluid.
Key Lock Cylinders	Lubricate with Multi-Purpose Lubricant (GM Part No. 12345120) or synthetic SAE 5W-30 engine oil.
Manual Transaxle Shift Linkage	Chassis lubricant (GM Part No. 1052497 or equivalent) or lubricant meeting requirements of NLGI Grade 2, Category LB or GC-LB.

Maintenance Schedule

Section D: Recommended Fluids & Lubricants (Cont.)

USAGE	FLUID/LUBRICANT
Automatic Transaxle Shift Linkage	Engine oil.
Floor Shift Linkage	Engine oil.
Clutch Linkage Pivot Points	Lithium base grease.
Chassis Lubrication	Chassis lubricant (GM Part No. 1052497 or equivalent) or lubricant meeting requirements of NLGI Grade 2, Category LB or GC-LB.
Windshield Washer Solvent	GM Optikleen® Washer Solvent (GM Part No. 1051515) or equivalent.
Hood Latch Assembly a. Pivots and Spring Anchor b. Release Pawl	a. Engine oil or Lubriplate Lubricant (GM Part No. 1050109). b. Chassis lubricant (GM Part No. 1052497 or equivalent) or lubricant meeting requirements of NLGI Grade 2, Category LB or GC-LB.
Body Door Hinge Pins, Folding Seat, Fuel Door Hinge, Rear Compartment Lid Hinges	Engine oil or Lubriplate Lubricant (GM Part No. 1050109).
Weatherstrips	Dielectric Silicone Grease (GM Part No. 12345579 or equivalent).

See "Replacement Parts" in the Index for recommended replacement filters, valves and spark plugs.

Maintenance Schedule

Section E: Maintenance Record

After the scheduled services are performed, record the date, odometer reading and who performed the service in the columns indicated. When completing the Maintenance Performed column, insert the numbers from the Schedule I or Schedule II maintenance charts which correspond to the maintenance performed. Also, you should retain all maintenance receipts. Your owner information portfolio is a convenient place to store them.

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

Maintenance Schedule

Section E: Maintenance Record (Cont.)

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

Maintenance Schedule

Section E: Maintenance Record (Cont.)

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

Maintenance Schedule

Section E: Maintenance Record (Cont.)

DATE	ODOMETER READING	SERVICED BY	MAINTENANCE PERFORMED

Here you will find out how to contact Chevrolet/Geo if you need assistance. This part also tells you how to obtain service publications and how to report any safety defects.

Part 8
Customer Assistance Information

Customer Assistance Information

■ *Customer Satisfaction Procedure*

Your satisfaction and goodwill are important to your dealer and Chevrolet/Geo. Normally, any concern 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 Chevrolet/Geo Customer Assistance Center by calling 1-800-222-1020. In Canada, contact GM of Canada Customer Assistance Center in Oshawa by calling 1-800-263-3777 (English) or 1-800-263-7854 (French). In Mexico, call (525) 254-3777. In Puerto Rico or U.S. Virgin Islands, call 1-809-763-1315. In all other overseas locations, contact GM North American Export Sales in Canada by calling 1-905-644-4112.

For prompt assistance, please have the following information available to give the Customer Assistance Representative:

- Your name, address, home and business telephone numbers
- Vehicle Identification Number (This is available from the vehicle registration or title, or the plate at the left top of the instrument panel and visible through the windshield.)
- Dealership name and location
- Vehicle delivery date and present mileage
- Nature of concern

We encourage you to call the toll-free number listed previously in order to give your inquiry prompt attention. However, if you wish to write Chevrolet/Geo, write to:

Chevrolet/Geo
Customer Assistance Center
P.O. Box 7047
Troy, MI 48007-7047

Refer to your Warranty and Owner Assistance Information booklet for addresses of Canadian and GM Overseas offices.

When contacting Chevrolet/Geo, please remember that your concern will likely be resolved in the dealership, using the dealership's facilities, equipment and personnel. That is why we suggest you follow Step One first if you have a concern.

Customer Assistance for the Hearing or Speech Impaired (TDD)

To assist customers who have hearing difficulties, Chevrolet/Geo has installed special TDD (Telecommunication Devices for the Deaf) equipment at its Customer Assistance Center. Any hearing or speech impaired customer who has access to a TDD or a conventional teletypewriter (TTY) can communicate with Chevrolet by dialing: 1-800-TDD-CHEV (1-800-833-2438). (TDD users in Canada can dial 1-800-263-3830.)

■ *GM Participation in BBB AUTO LINE - Alternative Dispute Resolution Program* *

Both Chevrolet/Geo and your Chevrolet/Geo dealer are committed to making sure you are completely satisfied with your new vehicle. Our experience has shown that, if a situation arises where you feel your concern has not been adequately addressed, the Customer Satisfaction Procedure described earlier in this section is very successful.

There may be instances where an impartial third-party can assist in arriving at a solution to a disagreement regarding vehicle repairs or interpretation of the New Vehicle Limited Warranty. To assist in resolving these disagreements Chevrolet/Geo voluntarily participates in BBB AUTO LINE.

BBB AUTO LINE is an out-of-court program administered by the Better Business Bureau system to settle disputes between customers and automobile manufacturers. This program is available free of charge to customers who currently own or lease a GM vehicle.

If you are not satisfied after following the Customer Satisfaction Procedure, 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
4200 Wilson Boulevard
Suite 800
Arlington, VA 22203

Telephone: 1-800-955-5100

To file a claim, you will be asked to provide your name and address, your vehicle identification number (VIN), and a statement of the nature of your complaint. Eligibility is limited by vehicle age and mileage, and other factors.

We prefer you utilize the Customer Satisfaction Procedure before you resort to AUTO LINE, but you may contact the BBB at any time. The BBB will attempt to resolve the complaint serving as an intermediary between you and Chevrolet/Geo. If this mediation is unsuccessful, an informal hearing will be scheduled where eligible customers may present their case to an impartial third-party arbitrator.

The arbitrator will make a decision which you may accept or reject. If you accept the decision, GM will be bound by that decision. The entire dispute resolution procedure should ordinarily take about forty days from the time you file a claim until a decision is made.

Some state laws may require you to use this program before filing a claim with a state-run arbitration program or in the courts. For further information, contact the BBB at 1-800-955-5100 or the Chevrolet/Geo Customer Assistance Center at 1-800-222-1020.

*This program may not be available in all states, depending on state law. Canadian owners refer to your Warranty and Owner Assistance information booklet. General Motors reserves the right to change eligibility limitations and/or to discontinue its participation in this program.

Customer Assistance 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
Box 8880
Ottawa, Ontario K1G 3J2

■ *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 1-800-222-1020 , or write:

Chevrolet/Geo
Customer Assistance Center
P.O. Box 7047
Troy, MI 48007-7047

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 Assistance Center
1908 Colonel Sam Drive
Oshawa, Ontario L1H 8P7

■ *Chevrolet/Geo Roadside Assistance Program*

To enhance Chevrolet/Geo's strong commitment to customer satisfaction, Chevrolet/Geo is excited to provide the services of the Chevrolet/Geo Roadside Assistance Center.

Roadside Assistance is available 24 hours a day, 365 days a year, by calling 1-800-CHEV USA (1-800-243-8872). This toll-free number will provide you over-the-phone roadside assistance with minor mechanical problems. If your problem cannot be resolved over the phone, our advisors have access to a nationwide network of dealer recommended service providers. The following services are available:

- Towing
- Locksmith
- Tire Repair
- Rental car or taxi
- Additional services as necessary

The Roadside Assistance Center uses companies that will provide you with quality and priority service. When roadside services are required, our advisors will explain any payment obligations that may be incurred for utilizing outside services.

For prompt assistance when calling, please have the following available to give to the advisor:

- Vehicle Identification Number
- License plate number
- Vehicle color
- Vehicle location
- Telephone number where you can be reached
- Vehicle mileage
- Description of problem

■ *Canadian Roadside Assistance*

Vehicles purchased in CANADA have an extensive ROADSIDE ASSISTANCE Program accessible from anywhere in Canada or the U.S.A. Please refer to the separate brochure provided by the dealer or call 1-800-268-6800 for emergency services.

■ *Courtesy Transportation*

Chevrolet/Geo offers Courtesy Transportation for customers needing warranty service. Courtesy Transportation will be offered in conjunction with the coverage provided by the BUMPER TO BUMPER New Vehicle Limited Warranty to retail and retail lease purchasers of 1994 Chevrolet/Geo passenger cars and light-duty trucks.

Courtesy Transportation includes:

- One-way SHUTTLE RIDE for any warranty repair completed during the same day.
- Up to $30 maximum daily VEHICLE RENTAL allowance for any overnight warranty repair up to 5 days.

OR

- Up to $30 maximum daily CAB, BUS, or OTHER public transportation allowance in lieu of rental for any overnight warranty repair up to 5 days.

OR

- Up to $10 daily FUEL allowance for rides provided by another person (i.e., friend, neighbor, etc.) in lieu of rental or other public transportation for any overnight warranty repair up to 5 days.

Note: All Courtesy Transportation arrangements will be administered by your Chevrolet/Geo dealership service management. Claim amounts should reflect all actual costs.

- Chevrolet/Geo Courtesy Transportation is not part of the BUMPER TO BUMPER New Vehicle Limited Warranty. Chevrolet/Geo reserves the right to make any changes or discontinue Courtesy Transportation at any time without notification.
- For additional program details, contact your Chevrolet/Geo dealer.

In Canada, please consult your GM Dealer for information on courtesy transportation.

■ *Service Publications*

Information on how to obtain Product Service Publications (PSP's) and Indexes as described below is applicable only in the fifty U.S. states (and the District of Columbia) and only for cars and light trucks with GVWR less than 10,000 pounds (4 536 kg).

In Canada, information pertaining to Product Service Bulletins and Indexes can be obtained by writing to:

General Motors of Canada Limited
Service Publications Department
1908 Colonel Sam Dr.
Oshawa, Ontario L1H 8P7

Chevrolet/Geo regularly sends its dealers useful service bulletins about Chevrolet/Geo products. Chevrolet/Geo monitors product performance in the field. We then prepare bulletins for servicing our products better. Now, you can get these bulletins too.

Bulletins cover various subjects. Some pertain to the proper use and care of your vehicle. Some describe costly repairs. Others describe inexpensive repairs which, if done on time with the latest parts, may avoid future costly repairs. Some bulletins tell a technician how to repair a new or unexpected condition. Others describe a quicker way to fix your vehicle. They can help a technician service your vehicle better.

Most bulletins apply to conditions affecting a small number of cars or trucks. Your Chevrolet/Geo dealer or a qualified technician may have to determine if a specific bulletin applies to your vehicle.

Individual PSP's

If you don't want to buy all the PSP's issued by Chevrolet/Geo for all car or truck models in the model year, you can buy individual PSP's, such as those which may pertain to a particular model. To do this, you will first need to see our index of PSP's. It provides a variety of information. Here's what you'll find in the index and how you can get one:

What You'll Find in the Index:

- A list of all PSP's published by Chevrolet/Geo in a model year (1990 or later). PSP's covering all models of Chevrolet/Geo cars or light trucks (less than 10,000 pounds (4 536 kg) GVWR) are listed in the same index.

- Ordering information so you can buy the specific PSP's you may want.
- Price information for the PSP's you may want to buy.

How You Can Get an Index:

Indexes are published periodically. Most of the PSP's which could potentially apply to the most recent Chevrolet/Geo models will be listed in the most recent publication for that model year. This means you may want to wait until the end of the model year before ordering an index, if you are interested in buying PSP's pertaining to a current model year car or truck.

Some PSP's pertaining to a particular model year vehicle may be published in later years, and these would be listed in the later year's index. When you order an index for a model year that is not over yet, we'll send you the most recently published issue. Check the ordering form for indexes for earlier model years.

Cut out the ordering form, fill it out, and mail it in. We will then see to it that an index is mailed to you. There is no charge for indexes for the 1990-1994 model years.

Toll-Free Telephone Number

If you want an additional ordering form for an index, just call toll-free and we'll be happy to send you one. Automated recording equipment will take your name and mailing address. The number to call is 1-800-551-4123.

A VERY IMPORTANT REMINDER: These PSP's are meant for technicians. They are not meant for the "do-it-yourselfer." Technicians have the equipment, tools, safety instructions, and know-how to do a job quickly and safely.

Chevrolet/Geo Service Publications

You can get these by using the order form.

Customer Assistance Information

1994 CHEVROLET/GEO SERVICE PUBLICATIONS ORDERING INFORMATION

The following publications covering the operation and servicing of your vehicle can be purchased by filling out the Service Publications Order Form in this book and mailing it with your check, money order or credit card information to Helm, Incorporated (address listed below).

CURRENT PUBLICATIONS FOR 1994 GEO PRIZM

PRODUCT SERVICE PUBLICATIONS

Product Service Publications (PSP's), are bulletins, letters and articles published for trained dealer service personnel. See Service Publications listed previously in this section.

A cumulative index is published quarterly during the current model year. The indexes list all PSP's published by Chevrolet in the model year.

PSP Index

Year	Form Number	Price
1994	PSPI-94	Free
1993	PSPI-93	Free
1990-92	PSPI-90-92	Free

PSP Bound Bulletin Book (Complete Year Bulletins)

Year	Description	Form Number	Price
1991	All PSP's	PSP-91-4	40.00
1990	All PSP's	PSP-90-4	40.00

For subscription information call Helm, Incorporated.

SERVICE MANUALS

Service Manuals have the diagnosis, repair and overhaul information on engines, transmission, axle, suspension, brakes, electrical, steering, body, etc.

Model	Form Number	Price
1994 Geo Prizm	ST-373-94	**TBA***

NOTE: Please specify special body or engine types on order form. Write information in the Form Number column. For example: Turbo, Convertible.

***Price to be announced at a later date. Call 1-800-782-4356 for further information.**

OWNER'S INFORMATION

Owner publications are written directly for owners and intended to provide basic operational information about the vehicle. The Owner's Manual includes the Maintenance Schedule for all models.

1994 Geo Prizm Owner's Manual

In Portfolio: *Includes Portfolio, Owner's Manual and Warranty Booklet.*

1994	Geo Prizm In-Portfolio	10260661	$15.00

Without Portfolio: *Includes Owner's Manual.*

1994	Geo Prizm Without Portfolio	10260664	$10.00

CURRENT & PAST MODEL ORDER FORMS

Service Publications are available for current and past model Chevrolet/Geo vehicles. To request an order form, please specify year and model name of vehicle.

Address all inquiries to: HELM, INCORPORATED
P.O. Box 07130
Detroit, MI 48207

For information and inquiries call: 1-800-782-4356

CHEVROLET/GEO SERVICE PUBLICATIONS ORDER FORM

NOTE: Please complete form below (Print or Type) and MAIL TO:

HELM

Post Office Box 07130, Detroit, Michigan 48207

ORDER TOLL FREE
1-800-782-4356
(Monday-Friday 8:00 A.M.-6:00 P.M. EST)

PUBLICATION FORM NUMBER	ITEM DESCRIPTION	VEHICLE MODEL NAME	VEHICLE MODEL YEAR	QTY.	PRICE EACH *	TOTAL PRICE
ST-373-94	Service Manual	Geo Prizm	1994		TBA**	
10260661	Owner's Manual In-Portfolio	Geo Prizm	1994		$15.00	
10260664	Owner's Manual Without-Portfolio	Geo Prizm	1994		$10.00	

SHIP TO

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. For purchases outside U.S.A. please write to the above address for quotation.

(CUSTOMER NAME) _____ (ATTENTION) _____

(STREET ADDRESS—NO P.O. BOX NUMBERS) _____ (APT. NO.) _____

(CITY) _____ (STATE) _____ (ZIP CODE) _____

DAYTIME TELEPHONE NO. AREA CODE ( ) _____

PAYMENT

☐ Check or Money Order payable to Helm, Inc. (USA funds only — do not send cash.)

☐ MasterCard

☐ VISA ☐ Discover Card

TOTAL MATERIAL	
Michigan Purchasers add 4% sales tax	
Handling Charge	$4.00
Canadian Postage (See Note Below)	
GRAND TOTAL	

Account Number: ☐☐☐☐ ☐☐☐☐ ☐☐☐☐ ☐☐☐☐

Expiration Date mo/yr: ☐☐ ☐☐

Check here if your billing address is different from your shipping address shown. ☐

(CUSTOMER SIGNATURE) _____

* Prices are subject to change without notice and without incurring obligation.

** **Price to be announced at a later date. Call 1-800-782-4356 for further information.**

Orders cannot be returned without prior authorization. A restocking fee may apply.

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. Handling Charge. Requests for manuals printed in French should be directed to Canadian General Motors dealerships. **Please allow adequate time for postal service.**

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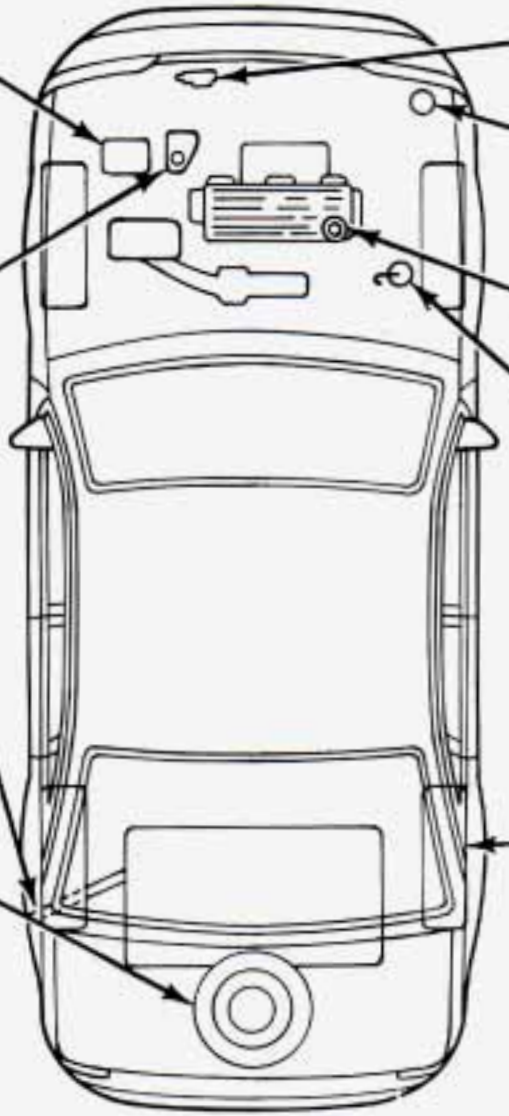
Service Station Information



Battery

The Delco Freedom® battery needs no water. **See Page 162**

Cooling System Reservoir

Check and add coolant only at the coolant recovery bottle. The fluid should be between the "FULL" and "LOW" marks. **See Page 156**

Fuel

Capacity 13.2 U.S. Gal. (50 L). Use unleaded gas only, 87 octane or higher. **See Page 145**

Spare Tire Pressure

Compact Spare: 60 psi (420 kPa). **See Page 171**

Hood Release

See Page 147

Windshield Washer Fluid Reservoir

See Page 159

Engine Oil Fill Cap

See Page 151

Engine Oil Dipstick

See Page 150

Cold Tire Pressure

See Tire-Loading Information label on the glove box door. **See Page 171**


ASE
CERTIFIED
TM
WE SUPPORT
VOLUNTARY TECHNICIAN
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National Institute for
AUTOMOTIVE
SERVICE
EXCELLENCE
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