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The car, which had versions with both rear and all-wheel drive, was equipped with a V6 4.3 engine (190 hp) and a four-speed "automatic". The production of this car was completed already in 2000. 2nd generation (2002-2009) In 2002, the production of the second generation of the GMC Envoy SUV began, created on a common platform with the Chevrolet TrailBlazer model. The car received an in-line six-cylinder engine with a volume of 4.2 liters and a capacity of 270-275 liters. with., worked in tandem with a four-speed automatic transmission. Buyers offered versions with rear and all-wheel drive. The car was also offered in the XL version with a wheelbase increased by 40 cm (body length increased to 5.3 meters) and a seven-seater saloon instead of a five-seater one. Such cars were equipped with a 5.3-liter V8 engine, developing 290 hp. With. In 2004, the production of the XUV modification was launched – an outdoor vehicle with a removable rear roof section that turns the car into a pickup truck. Such an SUV had a lengthened base, a five-seater interior and an eight-cylinder engine under the hood. Demand for the GMC Envoy XUV was much lower than expected, and in 2005 this version disappeared from the lineup. At the same time, the car began to be offered in the Denali version, which was distinguished by the details of the exterior design, more "rich" equipment and a V8 engine with a system for shutting off part of the cylinders to save fuel. The last GMC Envoy rolled off the assembly line at the Ohio plant in late 2008. GMC Envoy Attention! Clicking on the link "download" you agree, after reading, delete the downloaded file from your computer. All content on the site Carmanualsclub.com is taken from free sources and is also freely distributed. If you are the author of this material, then please contact us in order to provide users with a pleasant and convenient alternative, after reading, buying a quality "original" directly from the publisher. The site administration does not bear any responsibility for illegal actions, and any damage incurred by the copyright holders. View Fullscreen 2005 gmc envoy Owner's Manual Download Posted on July 8, 2019Author Categories GMC Page 1 2005 GMC Envoy, Envoy XL, Envoy Denali, and Envoy XL Denali Owner Manual Seats and Restraint Systems ... 1-1 Front Seats ... 1-3 Rear Seats ... 1-9 Safety Belts ... 1-12 Child Restraints ... 1-31 Airbag System ... 1-52 Restraint System Check ... GENERAL MOTORS, GM, the GM Emblem, GMC, the GMC Truck Emblem and the names ENVOY, and DENALI are registered trademarks of General Motors Corporation. This manual includes the latest information at the time it was printed. We reserve the right to make changes after that time without further notice. Page 3 Safety Warnings and Symbols There are a number of safety cautions in this book. We use a box and the word CAUTION to tell about things that could hurt you if you were to ignore the warning. CAUTION: These mean there is something that could hurt you or other people. Vehicle Damage Warnings Also, in this manual you will find these notices: Notice: These mean there is something that could damage your vehicle. A notice tells about something that can damage the vehicle. Many times, this damage would not be covered by your vehicle's warranty, and it could be costly. Page 5 These are some examples of symbols that may be found on the vehicle:... Page 6 NOTES... Section 1 Front Seats ...1-3 Manual Seats ...1-3 Power Seats ...1-4 Manual Lumbar ...1-5 Power Lumbar ...1-5 Heated Seats ...1-6 Reclining Seatbacks ...1-7 Head Restraints ...1-9 Rear Seats ...1-9 Rear Seat Operation ...1-9 Safety Belts ...1-12 Safety Belts: They Are for Everyone ...1-12 Questions and Answers About Safety Belts ...1-17 How to Wear Safety Belts Properly ...1-18 Driver Position ...1-18... Page 8 Section 1 What Will You See After an Airbag Inflates? ...1-60 Passenger Sensing System ...1-62 Servicing Your Airbag-Equipped Vehicle ...1-66 Adding Equipment to Your Airbag-Equipped Vehicle ...1-66 Seats and Restraint Systems Restraint System Check ...1-67 Checking the Restraint Systems ...1-67 Replacing Restraint System Parts After a Crash ...1-68... Front Seats Manual Seats CAUTION: You can lose control of the vehicle if you try to adjust a manual driver's seat while the vehicle is moving. The sudden movement could startle and confuse you, or make you push a pedal when you do not want to. Page 10 Power Seats If you have this feature, the power seat controls are located on the outboard side of the seat cushion and the vertical control adjusts the seatback. • Move the front of the seat control up or down to adjust the front portion of the cushion. Manual Lumbar If your vehicle has this feature, there is a knob located on the outboard side of the driver's seat. Turn the knob counterclockwise to increase lumbar support and clockwise to decrease lumbar support. Power Lumbar Your vehicle may have this feature. The control is located on the outboard side of the seat cushion. Heated Seats Your vehicle may have heated front seats. The buttons used to control this feature are located on the front door armrests. The engine must be running for the heated seat feature to work. To heat the entire seat, press the horizontal button with the heated seat symbol. Reclining Seatbacks If your vehicle has a manual recliner, lift the lever located on the outboard side of the seat and push the seatback rearward to recline the seatback. To return the seatback to the normal position, lift the lever without pushing rearward on the seatback and the seatback will move forward. Page 14 But do not have a seatback reclined if your vehicle is moving. CAUTION: Sitting in a reclined position when your vehicle is in motion can be dangerous. Even if you buckle up, your safety belts cannot do their job when you are reclined like this. The shoulder belt cannot do its job. Head Restraints Adjust your head restraint so that the top of the restraint is closest to the top of your head. This position reduces the chance of a neck injury in a crash. The head restraints lock into place when raised. To release the head restraint and lower it, press the tab located on the top of the headrest. Page 16 The rear seatback levers are located on the outboard side of the rear seatbacks. Pull the seatback toward you as you lift up on the lever. The head restraint will automatically fold out of the way when the seatback is folded down. To raise the seatbacks, lift up the seatbacks and push on them until they lock into the upright position. Page 17 Envoy XL and Envoy XL Denali The third seat is a 65/35 split seat which may be folded and tumbled. Use this feature for gaining access to the third row seats. To fold and tumble the second row seat(s), do the following: 1. Page 18 Folding the Third Row Seats 1. Pull up on the handle located on the bottom of the seat cushion to release the seat cushion. 2. Lift up the seat, and then pull it forward. 3. Fold the seatback forward until it is flat. 4. Page 19 CAUTION: It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and safety belts. Why Safety Belts Work When you ride in or on anything, you go as fast as it goes. Put someone on it. Take the simplest vehicle. Suppose it is just a seat on wheels. 1-14... Page 21 Get it up to speed. Then stop the vehicle. The rider does not stop. The person keeps going until stopped by something. In a real vehicle, it could be the windshield... 1-15... Page 22 or the instrument panel... 1-16 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 is why safety belts make such good sense. Page 23 Questions and Answers About Safety Belts Will I be trapped in the vehicle after an accident if I am wearing a safety belt? You could be — whether you are wearing a safety belt or not. But you can unbuckle a safety belt, even if you are upside down. Page 24 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 vehicle, see Older Children on page 1-31 or Infants and Young Children on page 1-34. Page 25 5. To make the lap part tight, 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 would be less likely to slide under the lap belt. Page 26 What is wrong with this? The shoulder belt is too loose. It will not give nearly as much protection this way. 1-20 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. Page 27 What is wrong with this? The belt is buckled in the wrong place. CAUTION: You can be seriously hurt 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. Page 28 What is wrong with this? The shoulder belt is worn under the arm. It should be worn over the shoulder at all times. 1-22 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. Page 29 What is wrong with this? The belt is twisted across the body. CAUTION: You can be seriously injured by a twisted belt. In a crash, you would not 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. Page 30 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 do not wear safety belts. A pregnant woman should wear a lap-shoulder belt, and the lap portion should be worn as low as possible, below the rounding, throughout the pregnancy. Page 31 Lap-Shoulder Belt All rear seat positions have lap-shoulder belts. Here is how to wear one properly. 1. Pick up the latch plate and pull the belt across you. Do not let it get twisted. The shoulder belt may lock if you pull the belt across you very quickly. Page 32 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 would be less likely to slide under the lap belt. If you slid under it, the belt would apply force at your abdomen. Rear Safety Belt Comfort Guides for Children and Small Adults Rear shoulder belt comfort guides may provide added safety belt comfort for older children who have outgrown booster seats and for some adults. When attached to a shoulder belt, the comfort guide positions the belt away from the neck and head. Page 34 3. Your comfort guide may have an adjuster to lengthen or shorten the cord. If it does, you can adjust the cord by following these steps. 3.1. Squeeze and hold the ends of the lock (A) on the elastic cord. 3.2. Page 35 CAUTION: A safety belt that is not properly worn may not provide the protection needed in a crash. The person wearing the belt could be seriously injured. 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. Page 36 Safety Belt Pretensioners Your vehicle has safety belt pretensioners for the driver and right front passenger. Although you cannot see them, they are located on the retractor part of the safety belts. They help the safety belts reduce a person's forward movement in a moderate to severe frontal, near frontal or side crash or a rollover. Child Restraints Older Children Older children who have outgrown booster seats should wear the vehicle's safety belts. What is the proper way to wear safety belts? An older child should wear a lap-shoulder belt and get the additional restraint a shoulder belt can provide. CAUTION: Never do this. Here two children are wearing the same belt. The belt can not 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. 1-32 What if a child is wearing a lap-shoulder belt, but the child is so small that the shoulder belt... Page 39 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. Page 40 Infants and Young Children Everyone in a vehicle needs protection! This includes infants and all other children. Neither the distance traveled nor the age and size of the traveler changes the need, for everyone, to use safety restraints. In fact, the law in every state in the United States and in every Canadian province says children up to some age must be restrained while in a vehicle. 1-34 CAUTION: Children who are up against, or very close to, any airbag when it inflates can be seriously injured or killed. Airbags plus lap-shoulder belts offer protection for adults and older children, but not for young children and infants. CAUTION: (Continued) CAUTION: (Continued) Never leave children alone in a vehicle and never allow children to play with the safety belts. Page 41 Child Restraint Systems Rear-facing infant seat (A) A rear-facing infant seat provides restraint with the seating surface against the back of the infant. Page 42 The restraint manufacturer's instructions that come with the restraint state the weight and height limitations for a particular child restraint. In addition, there are many kinds of restraints available for children with special needs. CAUTION: Newborn infants need complete support, including support for the head and neck. Child Restraint Systems An infant car bed (A), a special bed made for use in a motor vehicle, is an infant restraint system designed to restrain or position a child on a continuous flat surface. Make sure that the infant's head rests toward the center of the vehicle. Page 44 A forward-facing child seat (C-E) provides restraint for the child's body with the harness and also sometimes with surfaces such as T-shaped or shelf-like shields. 1-38 A booster seat (F-G) is a child restraint designed to improve the fit of the vehicle's safety belt system. Some booster seats have a shoulder belt positioner, and some high-back booster seats have a five-point harness. Page 45 How do child restraints work? A child restraint system is any device designed for use in a motor vehicle to restrain, seat, or position children. A built-in child restraint system is a permanent part of the motor vehicle. An add-on child restraint system is a portable one, which is purchased by the vehicle's owner. Where to Put the Restraint Accident statistics show that children are safer if they are restrained in the rear rather than the front seat. General Motors recommends that child restraints be secured in a rear seat, including an infant riding in a rear-facing infant seat, a child riding in a forward-facing child seat and an older child... Page 47 Wherever you install a child restraint, be sure to secure the child restraint properly. Keep in mind that an unsecured child restraint can move around in a collision or sudden stop and injure people in the vehicle. Be sure to properly secure any child restraint in your vehicle — even when no child is in it. Top Strap Some child restraints have a top strap, or "top tether."... For 7 passenger vehicles, if the position you are using has an adjustable head restraint, raise the head restraint and route the top strap under it. See Head Restraints on page 1-9. CAUTION: Each top tether bracket is designed to anchor only one child restraint. Page 49 Seven-passenger vehicles. There is a top strap anchor on the back of each seating position in the second row. The anchors are located at the bottom rear of the seat cushion. Do not secure a child restraint in the right front passenger's position or in the third row seating positions (if equipped) if a national or local law requires that the top strap be anchored, or if the instructions that... Lower Anchorages and Top Tethers for Children (LATCH System) Your vehicle has the LATCH system. There are anchors for the outboard seating positions in the second row. This system is designed to make installation of child restraints easier. Page 51 A. Lower Anchorage B. Lower Anchorage In order to use the LATCH system in your vehicle, you need a child restraint designed for that system. To assist you in locating the lower anchors for this child restraint system, each seating position with the LATCH system has a label on the seatback at each lower anchor position. Securing a Child Restraint Designed for the LATCH System 1. Find the LATCH anchorages for the seating position you want to use, where the bottom of the seatback meets the back of the seat cushion. Page 56 There is no top strap anchor at the right front seating position. Page 57 3. Buckle the belt. Make sure the release button is positioned so you would be able to unbuckle the safety belt quickly if necessary. 4. To tighten the belt, push down on the child restraint, pull the shoulder portion of the belt to tighten the lap portion of the belt and feed the shoulder belt back into the retractor. If you are using a forward-facing child restraint, you may find it helpful to use your knee to push down on the child restraint as you tighten the belt. Securing a Child Restraint in the Right Front Seat Position Your vehicle has airbags. A rear seat is a safer place to secure a forward-facing child restraint. See Where to Put the Restraint on page 1-40. In addition, your vehicle has a passenger sensing system... Page 59 6. To tighten the belt, push down on the child restraint to set the lock. Then pull the shoulder portion of the belt to tighten the lap portion of the belt and feed the shoulder belt back into the retractor. 7. Push and pull the child restraint in different directions to be sure it is secure. 8. If the airbag is off, the off indicator in the inside rearview mirror will be lit and stay lit when the vehicle is started. Here are the most important things to know about the airbag system: CAUTION: You can be severely injured or killed in a crash if you are not wearing your safety belt — even if you have airbags. Wearing your safety belt during a crash helps reduce your chance of hitting things inside the vehicle or being ejected from it. Page 60 CAUTION: Both frontal and roof-mounted airbags inflate with great force, faster than the blink of an eye. If you are too close to an inflating airbag, as you would be if you were leaning forward, it could seriously injure you. Safety belts help keep you in position for airbag inflation before and during a crash. Where Are the Airbags? The driver's frontal airbag is in the middle of the steering wheel. The right front passenger's airbag is in the instrument panel on the passenger's side. 1-55... Page 62 If your vehicle has a roof-mounted airbag for the driver and the person directly behind the driver, it is located in the ceiling above the side windows. 1-56 If your vehicle has a roof-mounted airbag for the right front passenger and the person directly behind that passenger, it is located in the ceiling above the side windows. CAUTION: If something is between an occupant and an airbag, the bag might not inflate properly or it might force the object into that person causing severe injury or even death. The path of an inflating airbag must be kept clear. Do not put anything between an occupant and an airbag, and do not attach or put anything on the steering wheel hub or on or near any other... Page 64 For more severe frontal impacts, full deployment occurs. If the front of your vehicle goes straight into a wall that does not move or deform, the threshold level for the reduced deployment is about 9 to 16 mph (14 to 26 km/h), and the threshold level for a full deployment is about 18 to 25 mph (29 to 40 km/h). The airbag system is designed to work properly under a wide range of conditions, including off-road usage. Observe safe driving speeds, especially on rough terrain. As always, wear your safety belt. See Off-Road Driving with Your Four-Wheel-Drive Vehicle on page 4-15 for tips on off-road driving. What Makes an Airbag Inflate? In an impact of sufficient severity, the airbag sensing system detects that the vehicle is in a crash. What Will You See After an Airbag Inflates? After an airbag inflates, it quickly deflates, so quickly that some people may not even realize the airbag inflated. Some components of the airbag module — the steering wheel hub for the driver's airbag, the instrument panel for the right front passenger's bag or the ceiling of your vehicle near the side windows —... Page 67 Your vehicle has a feature that will automatically unlock the doors and turn the interior lamps on when the airbags inflate (if battery power is available). You can lock the doors again and turn the interior lamps off by using the door lock and interior lamp controls. In many crashes severe enough to inflate an airbag, windshields are broken by vehicle deformation. Passenger Sensing System Your vehicle has a passenger sensing system for the right front passenger's position. A passenger airbag status indicator in the rearview mirror will be visible when you turn your ignition key to START or RUN. The words ON and OFF or the symbol for on and off, will be visible on the rearview mirror during the system check. Page 69 CAUTION: A child in a rear-facing child restraint can be seriously injured or killed if the right front passenger's airbag inflates. This is because the back of the rear-facing child restraint would be very close to the inflating airbag. Even though the passenger sensing system is designed to turn off the passenger's frontal airbag if the system detects a rear-facing child restraint, no system is fail-safe, and... Page 70 If after reinstalling the child restraint and restarting the vehicle, the on indicator is still lit, check to make sure that the vehicle's seatback is not pressing the child restraint into the seat cushion. If this happens, slightly recline the vehicle's seatback and adjust the seat cushion if possible. Page 71 CAUTION: If the airbag readiness light in the instrument panel cluster ever comes on and stays on, it means that something may be wrong with the airbag system. If this ever happens, have the vehicle serviced promptly, because an adult-size person sitting in the right front passenger's seat may not have the protection of the frontal airbag. Servicing Your Airbag-Equipped Vehicle Airbags affect how your vehicle should be serviced. There are airbag system parts in several places around your vehicle. You do not want the system to inflate while someone is working on your vehicle. Your dealer and the service manual have information about servicing your vehicle and the airbag system. Because I have a disability, I have to get my vehicle modified. How can I find out whether this will affect my airbag system? Changing or moving any parts of the front seats, safety belts, the airbag sensing and diagnostic module (located under the driver's seat), or the inside rearview mirror can affect the operation of the airbag system. Replacing Restraint System Parts After a Crash CAUTION: A crash can damage the restraint systems in your vehicle. A damaged restraint system may not properly protect the person using it, resulting in serious injury or even death in a crash. To help make sure your restraint systems are working properly after a crash, have them inspected and any necessary replacements made as soon as possible. Section 2 Keys ...2-3 Remote Keyless Entry System ...2-5 Remote Keyless Entry System Operation ...2-6 Doors and Locks ...2-8 Door Locks ...2-8 Delayed Locking ...2-9 Programmable Automatic Door Locks ...2-10 Rear Door Security Locks ...2-12 Lockout Protection ...2-12 Liftgate/Liftglass ...2-13 Windows ...2-14 Power Windows ...2-14 Power Rear Quarter Windows ...2-16... Page 76 Section 2 ® OnStar System ...2-47 ® HomeLink Wireless Control System ...2-49 ® HomeLink Wireless Control System Operation ...2-50 Storage Areas ...2-53 Glove Box ...2-53 Overhead Console ...2-53 Center Console Storage Area ...2-54 Assist Handles ...2-54 Features and Controls Luggage Carrier ...2-54 Rear Compartment Storage Panel/Cover ...2-56 Rear Floor Storage Lid ...2-58 Convenience Net ...2-58... Keys CAUTION: Leaving children in a vehicle with the ignition key is dangerous for many reasons. They could operate the power windows or other controls or even make the vehicle move. The children or others could be badly injured or even killed. Page 78 This vehicle has one double-sided key for the ignition and door lock. It will fit with either side up. When a new vehicle is delivered, the dealer provides the owner with a pair of identical keys and a key code number. The key code number tells your dealer or a qualified locksmith how to make extra keys. Remote Keyless Entry System Your keyless entry system operates on a radio frequency subject to Federal Communications Commission (FCC) Rules and with Industry Canada. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: 1. Remote Keyless Entry System Operation If your vehicle has this feature, you can lock and unlock your doors from about 3 feet (1 m) up to 30 feet (9 m) away using the remote keyless entry transmitter supplied with your vehicle. (Unlock): Press unlock for the driver's door to unlock automatically, the... Battery Replacement Under normal use, the battery in your remote keyless entry transmitter should last about two years. You can tell the battery is weak if the transmitter will not work at the normal range in any location. If you have to get close to your vehicle before the transmitter works, it's probably time to change the battery. Doors and Locks Door Locks CAUTION: Unlocked doors can be dangerous. • Passengers — especially children — can easily open the doors and fall out of a moving vehicle. When a door is locked, the handle will not open it. You increase the chance of being thrown out of the vehicle in a crash if the doors are not locked. Delayed Locking This feature delays the locking of the doors and the liftgate when using the power lock or the remote keyless entry system. The first time you attempt to lock the doors with the driver's door open, three chimes will signal that delayed locking is being used. Programmable Automatic Door Locks Your vehicle is equipped with an automatic lock/unlock feature which enables you to program your vehicle's power door locks. You can program this feature through the Driver Information Center (DIC), or by the following method. See DIC Vehicle Customization on page 3-56. Programmable Locking Feature Following are the two locking modes that can be programmed:... Programmable Unlocking Feature The following is the list of available programming options: Mode 1: All doors unlock when the transmission is shifted into PARK (P). Mode 2: Driver's door unlocks when the transmission is shifted into PARK (P). Mode 3: All doors unlock when the key is removed from the ignition. Rear Door Security Locks Your vehicle may have this feature. You can lock the rear doors so they cannot be opened from the inside by passengers. To use one of these locks do the following: 1. Open one of the rear doors. You will find a security lock located on the inside edge of each rear door. Liftgate/Liftglass CAUTION: It can be dangerous to drive with the liftgate or liftglass open because carbon monoxide (CO) gas can come into your vehicle. You cannot see or smell CO. It can cause unconsciousness and even death. If you must drive with the liftgate open or if electrical wiring or other cable connections must pass through the seal between the body and the... Windows CAUTION: Leaving children, helpless adults, or pets in a vehicle with the windows closed is dangerous. They can be overcome by the extreme heat and suffer permanent injuries or even death from heat stroke. Never leave a child, a helpless adult, or a pet alone in a vehicle, especially with the windows closed in warm or hot weather. Page 89 Your vehicle will have one of the following sets of power window switches: Press the top or bottom of the switch to raise or lower the window. Press down the top of the switch to lower the window and pull up on the switch to raise the window. If you hold the switch down for three to seven seconds after the window has been completely lowered or raised, the window will not operate for about... Express-Down Window AUTO (Express-down): The driver's and front passenger's window switches have an express-down feature that allows you to lower the window without holding the switch down. Press the driver's or front passenger's window switch labeled AUTO to the second position to activate the express-down feature. Press the switch to the first position to open the window to the desired level. Theft-Deterrent Systems Vehicle theft is big business, especially in some cities. Although your vehicle has a number of theft-deterrent features, we know that nothing we put on it can make it impossible to steal. Content Theft-Deterrent Your vehicle may be equipped with a content theft-deterrent alarm system. Here's how to avoid setting off the alarm by accident: • If you don't want to activate the theft-deterrent system, the vehicle should be locked with the door key after the doors are closed. • Always unlock a door with a key, or use the remote keyless entry transmitter. During normal operation, the security light will turn off approximately five seconds after the key is turned to RUN. If the engine stalls and the security light flashes, wait about 10 minutes until the light stops flashing before trying to restart the engine. Remember to release the key from START as soon as the engine starts. Ignition Positions Use the key to turn the ignition switch to four different positions. A (LOCK): This position locks the ignition and transmission. It is a theft-deterrent feature. You will only be able to remove the key when the ignition is turned to LOCK. Retained Accessory Power (RAP) Your vehicle is equipped with a Retained Accessory Power (RAP) feature which will allow certain features of your vehicle to continue to work up to 20 minutes after the ignition key is turned to LOCK. Your radio, power windows, sunroof (option) and overhead console will work when the ignition key is in RUN or ACCESSORY. When starting your engine in very cold weather (below 0°F or 18°C), do this: 1. With your foot off the accelerator pedal, turn the ignition key to START and hold it there up to 15 seconds. When the engine starts, let go of the key. Engine Coolant Heater Your vehicle may have an engine coolant heater. In very cold weather, 0°F (18°C) or colder, the engine coolant heater can help. You will get easier starting and better fuel economy during engine warm-up. Usually, the coolant heater should be plugged in a minimum of four hours prior to starting your vehicle. Displacement on Demand (DoD) Your vehicle's engine may be equipped with Displacement on Demand (DoD). This system allows the engine to operate on either four or eight cylinders, depending on your driving demands. The system determines when to switch into and out of the four-cylinder mode by first making sure that certain enabling criteria are met, such as coolant and oil temperatures, and the transmission being in... Page 99 CAUTION: It is dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Your vehicle can roll. Do not leave your vehicle when the engine is running unless you have to. If you have left the engine running, the vehicle can move suddenly. Page 100 REVERSE (R): Use this gear to back up. Notice: Shifting to REVERSE (R) while your vehicle is moving forward could damage the transmission. The repairs would not be covered by your warranty. Shift to REVERSE (R) only after your vehicle is stopped. SECOND (2): This position gives you more power but lower fuel economy than THIRD (3). You can use SECOND (2) on hills. It can help control your speed as you go down steep mountain roads, but then you would also want to use the brakes off and on. You can also use SECOND (2) for starting the vehicle from a stop on slippery road surfaces. Page 102 Automatic Transfer Case If your vehicle is equipped with four-wheel drive, the transfer case knob is located to the right of the steering wheel on the instrument panel. Use this knob to shift into and out of four-wheel drive. 2HI (Two-Wheel High): This setting is for driving in most street and highway situations. Page 103 If the lights do not come on, you should take your vehicle to your dealer for service. An indicator light will flash while shifting the transfer case. It will stay on when the shift is complete. If for some reason the transfer case cannot make a requested shift, it will return to the last chosen setting. Page 104 Shifting into NEUTRAL Before shifting the transfer case to NEUTRAL, first make sure the vehicle is parked so that it will not roll. 1. Set the parking brake. 2. Start the vehicle. 3. Put the transmission in NEUTRAL (N). 4. Shift the transfer case to 2HI. 5. Parking Brake To set the parking brake, hold the regular brake pedal down with your foot and pull up on the parking brake lever located between the seats. If the ignition is on, the brake system warning light on the instrument panel cluster will come on. Shifting Into Park (P) CAUTION: It can be dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Your vehicle can roll. If you have left the engine running, the vehicle can move suddenly. Leaving Your Vehicle With the Engine Running CAUTION: It can be dangerous to leave your vehicle with the engine running. Your vehicle could move suddenly if the shift lever is not fully in PARK (P) with the parking brake firmly set. If you have four-wheel drive, your vehicle will be free to roll —... Shifting Out of Park (P) Your vehicle has an automatic transmission shift lock control system. You have to fully apply the regular brakes before you can shift from PARK (P) when the ignition is in RUN. See Automatic Transmission Operation on page 2-24. 2-34 Parking Over Things That Burn CAUTION:... Engine Exhaust CAUTION: Engine exhaust can kill. It contains the gas carbon monoxide (CO), which you cannot see or smell. It can cause unconsciousness and death. You might have exhaust coming in if: • Your exhaust system sounds strange or different. Running the Engine While Parked It is better not to park with the engine running. But if you ever have to, here are some things to know. CAUTION: Idling the engine with the climate control system off could allow dangerous exhaust into your vehicle. CAUTION: If your vehicle has four-wheel drive, it will be free to roll — even if the shift lever is in PARK (P) — if the transfer case is in NEUTRAL. So be sure the transfer case is in a drive gear —... Mirror Operation While sitting in a comfortable driving position, adjust the rearview mirror so you can see clearly behind your vehicle. Grip it in the center to move it up or down and side to side. The day/night control, located at the bottom of the mirror, adjusts the mirror to reduce headlamp glare from behind during evening or dark conditions. Compass Variance Compass variance is the difference between earth's magnetic north and true geographic north. The mirror is set to zone eight upon leaving the factory. It will be necessary to adjust the compass to compensate for compass variance if you live outside zone eight. Under certain conditions, such as during a long-distance, cross-country trip, it will be necessary to adjust for compass variance. Manual Rearview Mirror with ® OnStar and Compass The vehicle may have a manual rearview mirror with ® OnStar and an eight-point compass display located in the upper right. ® Control buttons for the OnStar system are at the bottom of the mirror. See your GM dealer for more ®... Page 115 Compass Variance Compass variance is the difference between earth's magnetic north and true geographic north. The mirror is set to zone eight upon leaving the factory. It will be necessary to adjust the compass to compensate for compass variance if you live outside zone eight. Under certain conditions, such as during a long-distance, cross-country trip, it will be necessary to adjust for compass variance. Manual Rearview Mirror with Compass and Temperature The vehicle may have a manual rearview mirror with an eight-point compass and temperature display located in the upper right. When cleaning the mirror, use a paper towel or similar material dampened with glass cleaner. Do not spray glass cleaner directly on the mirror as that may cause the liquid cleaner to enter the mirror housing. Page 117 The mirror can be calibrated by driving the vehicle in circles at 5 mph (8 km/h) or less until the display shows a direction. Compass Variance Compass variance is the difference between earth's magnetic north and true geographic north. The mirror is set to zone eight upon leaving the factory. Manual Rearview Mirror with ® OnStar , Compass, and Temperature Display The vehicle may have a manual rearview mirror with ® OnStar and an eight-point compass and temperature display located in the upper right. ® Control buttons for the OnStar system are at the bottom of the mirror. Page 119 Such interference may be caused by a magnetic antenna mount, magnetic note pad holder, or a similar magnetic item. If the letter C should ever appear in the compass window, the compass may need calibration. Press and hold the on/off button for nine seconds to activate the compass calibration mode. Outside Manual Mirrors If the vehicle has the manual outside mirrors, adjust each outside mirror so that a little of the vehicle and the area behind it can be seen while sitting in a comfortable, driving position. Both mirrors can be manually folded inward by pulling them towards the vehicle. Outside Convex Mirror CAUTION: A convex mirror can make things (like other vehicles) look farther away than they really are. If you cut too sharply into the right or left lane, you could hit a vehicle. Check your inside mirror or glance over your shoulder before changing lanes. Safe and Sound Plan • Advanced Automatic Collision Notification • Automatic Notification of Airbag Deployment • Emergency Services • Roadside Assistance • Stolen Vehicle Tracking • AccidentAssist • Remote Door Unlock/Vehicle Alert • Remote Diagnostics • Information and Convenience Services •... ® OnStar Steering Wheel Controls A steering wheel control can be used to interact with the ® OnStar personal calling feature. Press the control with this symbol on the steering wheel to place a phone call. When calling into voice mail systems, or to dial directory numbers, press the control, say the number(s), then say "dial."... This device complies with RSS-210 of Industry Canada. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference received, including interference that may cause undesired operation of the device. Changes and modifications to this system by other than an authorized service facility could void authorization to use this equipment. Page 125 2. Position the end of your hand-held transmitter about 1 to 3 inches (3 to 8 cm) away from the ® HomeLink buttons while keeping the indicator light in view. 3. Simultaneously press and hold both the desired ® button on HomeLink and the hand-held transmitter button. Gate Operator and Canadian Programming Canadian radio-frequency laws require transmitter signals to "time out" or quit after several seconds of transmission. This may not be long enough for ® HomeLink to pick up the signal during programming. Similarly, some U.S. gate operators are manufactured to "time out"... Reprogramming a Single HomeLink Button To program a device to HomeLink button previously trained, follow these steps: 1. Press and hold the desired HomeLink Do not release the button. 2. The indicator light will begin to flash after 20 seconds. While still holding the HomeLink button, proceed with Step 2 under "Programming ®... Center Console Storage Area If your vehicle has this console compartment, squeeze the front lever while lifting the top to open it. Your vehicle's console will be equipped with cupholders located on the front and rear of the storage compartment. The console may also contain one or more of the following components: •... Page 129 A luggage carrier allows you to load things on top of your vehicle. The luggage carrier has side rails attached to the roof, sliding crossrails (if equipped) and places to use for tying things down. These let you load some other things on top of your vehicle, as long as they are not wider or longer than the luggage carrier. Rear Compartment Storage Panel/Cover Upper Position Your vehicle may have this feature. This upper panel position can be used as a cargo shade. Insert the front corners of the panel into the top guides and slide the panel forward. Press down on the back of the panel to lock it in place. Page 131 Lower Position The panel can be stored in the lower position with either side up. Insert the front corners of the panel into the lower guides and slide the panel forward. Press down on the back of the panel to lock it in place. Notice: Loading objects that weigh over 200 lbs (90 kg) onto the panel may cause damage. Rear Floor Storage Lid CAUTION: If any removable convenience item is not secured properly, it can move around in a collision or sudden stop. People in the vehicle could be injured. Be sure to secure any such item properly. Your vehicle has a rear cargo area with a removable storage lid. Page 133 To remove the cargo cover, do the following: 1. Release the cover from the latch posts and carefully roll it back up. 2. Squeeze one endcap and remove it from the pocket in the trim panel. 3. Remove the cargo cover from the other endcap so that you can remove the shade from the vehicle. Sunroof The vehicle may be equipped with a power sliding sunroof. To open or close the sunroof, the ignition must be on or accessory, or Retained Accessory Power (RAP) must be active. See Retained Accessory Power (RAP) on page 2-21. Press and release the back of the control in the overhead console to... Page 135 2. Press and hold the 1 or 2 button of the memory control for three seconds. A double chime will sound to let you know that the position has been stored. To repeat the procedure for a second driver, follow the preceding steps, but press the other numbered memory control button. Page 136 NOTES 2-62... Page 137 Section 3 Instrument Panel Overview ...3-4 Hazard Warning Flashers ...3-6 Other Warning Devices ...3-6 Horn ...3-6 Tilt Wheel ...3-6 Turn Signal/Multifunction Lever ...3-7 Turn and Lane-Change Signals ...3-7 Headlamp High/Low-Beam Changer ...3-8 Flash-to-Pass ...3-8 Windshield Wipers ...3-9 Rainsense™ Wipers ...3-9 Windshield Washer ...3-10 Headlamp Washer ...3-11 Cruise Control ...3-11... Page 138 Section 3 Oil Pressure Gage ...3-44 Change Engine Oil Light ...3-45 Security Light ...3-45 Cruise Control Light ...3-46 Reduced Engine Power Light ...3-46 Highbeam On Light ...3-46 Service Four-Wheel Drive Warning Light ...3-47 Check Gages Warning Light ...3-47 Gate Ajar Light ...3-47 Fuel Gage ...3-48 Low Fuel Warning Light ...3-48 Check Gas Cap Light ...3-48... Page 139 NOTES... Instrument Panel Overview... Page 141 The main components of your instrument panel are the following: A. Exterior Lamp Control. See Headlamps on page 3-14. Dome Lamp Override Button. See Dome Lamp Override on page 3-18. Instrument Panel Brightness Control. See Instrument Panel Brightness on page 3-17. Fog Lamp Button (If Equipped). See Fog Lamps on page 3-17. Hazard Warning Flashers Your hazard warning flashers let you warn others. They also let police know you have a problem. Your front and rear turn signal lamps will flash on and off. The hazard warning flasher button is located on top of the steering column. Turn Signal/Multifunction Lever The lever on the left side of the steering column includes the following: • Turn and Lane Change Signals • Headlamp High/Low-Beam Changer • Flash-to-Pass Feature • Windshield Wipers • Windshield Washer • Cruise Control (If Equipped) Turn and Lane-Change Signals The turn signal has two upward (for right) and two downward (for left) positions. If a bulb is burned out, replace it to help avoid an accident. If the arrows don't go on at all when you signal a turn, check the fuse. See Fuses and Circuit Breakers on page 5-91 and check for burned-out bulbs. If you have a trailer towing option with added wiring for the trailer lamps, a different turn signal flasher is used. Windshield Wipers (Mist): For a single wiping cycle, turn the band to mist. Hold it there until the wipers start. Then let go. The wipers will stop after one wipe. If you want more wipes, hold the band on mist longer. (Off): To stop the wipers, move the band to off. Windshield Washer (Windshield Washer): To spray washer fluid on the windshield, press the windshield washer paddle. The wipers will clear the window and then either stop or return to your preset speed. CAUTION: In freezing weather, do not use your washer until the windshield is warmed. Headlamp Washer Your vehicle may be equipped with a headlamp washer system. The button to operate this feature is located on the instrument panel and functions separately from your other washer systems. To wash your headlamps, press the headlamp washer button briefly and release to activate the system. Page 148 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). If you apply your brakes, the cruise control will shut off. Page 149 The cruise light on the instrument panel cluster will come on when the cruise control is engaged. Resuming a Set Speed Suppose you set your cruise control at a desired speed and then you apply the brake. This, of course, shuts off the cruise control. Using Cruise Control on Hills How well your cruise control will work on hills depends upon your speed, load and the steepness of the hills. When going up steep hills, you may want to step on the accelerator pedal to maintain your speed. When going downhill, you may have to brake or shift to a lower gear to keep your speed down. (Parking Lamps): Turn the knob to this symbol to manually turn on the following: • Parking Lamps • Sidemarker Lamps • Taillamps • License Plate Lamps • Instrument Panel Lights (Headlamps): Turn the knob to this symbol to turn on all the lamps listed as well as the headlamps. Headlamps on Reminder A reminder tone will sound when your headlamps or parking lamps are manually turned on, the... Automatic Headlamp System When it is dark enough outside, your Automatic Headlamp System will turn on your headlamps at the normal brightness along with other lamps such as the taillamps, sidemarker, parking lamps and the instrument panel lights. The radio lights will also be on. Your vehicle is equipped with a light sensor on the top of the instrument panel. Fog Lamps Your vehicle may have this feature. Use your fog lamps for better vision in foggy or misty conditions. Your ignition must be in RUN for your fog lamps to work. The fog lamp button is located on the instrument panel to the right of the exterior lamps knob. Dome Lamp Override The dome override button is located below the exterior lamps knob. To turn the dome lamps off, press the button. The dome lamps will remain off when a door is open. This will override the illuminated entry feature unless you use your keyless entry transmitter to unlock the vehicle. Battery Run-Down Protection This feature shuts off the dome, courtesy and vanity if they are left on for more than 20 minutes when the ignition is off. This will keep your battery from running down. If the battery run-down protection shuts off the interior lamps, it may be necessary to do one of the following to return to normal operation: •... Ashtrays and Cigarette Lighter Your vehicle may have this feature. The ashtray is removable and fits into the front cupholder. Notice: If you put papers, pins, or other flammable items in the ashtray, hot cigarettes or other smoking materials could ignite them and possibly damage your vehicle. Page 157 To change the current mode, select one of the following: (Vent): This mode directs air to the instrument panel outlets. (Bi-Level): This mode directs about half of the air to the instrument panel outlets; then directs most of the remaining air to the floor outlets. A little air is directed toward the windshield and the side window outlets. Defogging and Defrosting Fog on the inside of windows is a result of high humidity (moisture) condensing on the cool window glass. This can be minimized if the climate control system is used properly. There are two modes to choose from to clear fog or frost from your windshield. Dual Automatic Climate Control System Your vehicle may have the dual automatic climate control system. With this system you can control the heating, cooling and ventilation for your vehicle. When your vehicle is first started and the climate control system is on, or if the climate control system has been turned on, the display will show the driver's temperature setting for five seconds. Page 160 Driver's Side Temperature Knob: Turn this knob clockwise or counterclockwise to manually raise or lower the temperature on the driver's side of the vehicle. The display will show the temperature setting decreasing or increasing and an arrow pointing toward the driver. This knob can also adjust the passenger's side temperature setting simultaneously if the two zones are linked. Page 161 Manual Operation To change the current setting, select one of the following: (Fan): This button allows you to manually adjust the fan speed. Press the up arrow to increase fan speed and the down arrow to decrease fan speed. The display will change to show you the selected fan speed and the driver's side temperature setting for five seconds. Page 162 A/C (Air Conditioning): Press this button to manually turn the air conditioning system on or off. When the system is on, the system will automatically begin to cool and dehumidify the air inside of your vehicle. The air conditioning symbol will appear on the display when the air conditioning is on and will turn off when the air conditioning is off. Rear Window Defogger The rear window defogger uses a warming grid to remove fog from the rear window. < (Rear): Press this button to turn the rear window defogger on or off. An indicator light in the button will come on to let you know that the rear window defogger is activated. Rear Climate Control System Envoy Your vehicle has one of the following rear climate control systems. With any of these systems, the rear climate controls will be disabled when the front climate control system is in defrost. This occurs to provide maximum airflow to clear the windshield. Envoy or Envoy Denali If your vehicle has the rear seat audio system, the lower buttons are used to adjust the rear seat climate control system. The temperature of the air coming through the rear outlets is determined by the front passenger's temperature setting. Page 166 Turn the knobs on the control panel to choose a fan speed, temperature and direction of airflow. (Panel): Selecting panel mode will deliver air to the four headliner outlets. (Bi-level): Selecting bi-level mode will deliver warmer air to the third seat floor outlet and cooler air to the headliner outlets. z\ y (Mode): Press this button to change the direction of airflow (panel, bi-level or floor) to the rear seat area. zb y (Temperature): Press this button to increase and decrease the temperature setting. Warning Lights, Gages, and Indicators This part describes the warning lights and gages that may be on your vehicle. Instrument Panel Cluster Your instrument panel cluster is designed to let you know at a glance how your vehicle is running. You'll know how fast you're going, about how much fuel you've used, and many other thing you'll need to know to drive safely and economically. Speedometer and Odometer Your speedometer lets you see your speed in both miles per hour (mph) and kilometers per hour (km/h). Your odometer shows how far your vehicle has been driven, in either miles (used in the United States) or kilometers (used in Canada). The odometer mileage can be checked without the vehicle running. Safety Belt Reminder Light When the key is turned to RUN or START, a chime will be provided for several seconds to remind people to buckle their safety belts. The driver safety belt light will also be provided and stay on for several seconds, then it will flash for several more. Airbag Readiness Light There is an airbag readiness light on the instrument panel, which shows the airbag symbol. The system checks the airbag's electrical system for malfunctions. The light tells you if there is an electrical problem. The system check includes the airbag sensors, the airbag modules, the wiring and the crash sensing and diagnostic module. Passenger Airbag Status Indicator Your vehicle has the passenger sensing system, Your rearview mirror has a passenger airbag status indicator. Passenger Airbag Status Indicator – United States Passenger Airbag Status Indicator – Canada When the ignition key is turned to RUN or START, the passenger airbag status indicator will light ON and OFF, or the symbol for on and off, for several seconds as a system check. If, after several seconds, all status indicator lights remain on, or if there are no lights at all, there may be a problem with the lights or the passenger sensing system. See your dealer for service. CAUTION: If the off indicator and the airbag readiness light ever come on together, it means that something may be wrong with the airbag system. Voltmeter Gage When your engine is not running, but the ignition is in RUN, this gage shows your battery's state of charge in DC volts. When the engine is running, the gage shows the condition of the charging system. Readings between the low and high warning zones indicate the normal operating range. Page 175 United States This light should come on briefly when you turn the ignition key to RUN. If it doesn't come on then, have it fixed so it will be ready to warn you if there's a problem. If the light comes on while you are driving, pull off the road and stop carefully. Anti-Lock Brake System Warning Light With the anti-lock brake system, this light will come on when you start your engine and may stay on for several seconds. That's normal. A chime may also sound when the light comes on. If the light stays on, or comes on when you're driving, your vehicle needs service. Malfunction Indicator Lamp Check Engine Light Your vehicle is equipped with a computer which monitors operation of the fuel, ignition, and emission control systems. This system is called OBD II (On-Board Diagnostics-Second Generation) and is intended to assure that emissions are at acceptable levels for the life of the vehicle, helping to produce a cleaner environment. If the Light is Flashing The following may prevent more serious damage to your vehicle: • Reducing vehicle speed • Avoiding hard accelerations • Avoiding steep uphill grades • If you are towing a trailer, reduce the amount of cargo being hauled as soon as it is possible If the light stops flashing and remains on steady, see "If the Light Is On Steady"... If you experience one or more of these conditions, change the fuel brand you use. It will require at least one full tank of the proper fuel to turn the light off. If none of the above steps have made the light turn off, your dealer can check the vehicle. Oil Pressure Gage United States The oil pressure gage shows the engine oil pressure in psi (pounds per square inch) when the engine is running. Canadian vehicles indicate pressure in kPa (kilopascals). 3-44 CAUTION: Do not keep driving if the oil pressure is low. If you do, your engine can become so hot that it catches fire. Change Engine Oil Light When this light comes on, it means that an oil change and other maintenance procedures are required for your vehicle. See Scheduled Maintenance on page 6-4 and Engine Oil on page 5-15 for more information. Once the engine oil has been changed, the change engine oil light must be reset. Cruise Control Light The cruise light appears whenever you set your cruise control. Reduced Engine Power Light This light is displayed when a noticeable reduction in the vehicle's performance may occur. The vehicle may be driven at a reduced speed when the reduced engine power light is on but acceleration and speed may be reduced. Service Four-Wheel Drive Warning Light This light should come on briefly when you turn on the ignition, as a check to show you it is working. The service four-wheel drive light comes on to indicate that there may be a problem with the drive system and service is required. Fuel Gage United States When the ignition is on, the fuel gage tells you about how much fuel you have remaining. Here are four things that some owners ask about. None of these show a problem with your fuel gage: •... Driver Information Center (DIC) Your vehicle may have this feature. The Driver Information Center (DIC) display is located on the instrument panel cluster, below the speedometer. The DIC buttons, if equipped, are located on the steering wheel. The DIC can display information such as the trip odometer, fuel economy, customization features, and warning/status messages. DIC Operation and Displays The DIC comes on when the ignition is on. After a short delay the DIC will display the information that was last displayed before the engine was turned off. If a problem is detected, a warning message will appear on the display. Timer: The DIC can be used as a timer. Press the select button while TIMER is displayed to start the timer. The display will show the amount of time that has passed since the timer was last reset, not including time the ignition is off. Engine Oil Life System: Press the fuel information button until ENGINE OIL LIFE appears on the display. The engine oil life system shows an estimate of the oil's remaining useful life. It will show 100% when the system is reset after an oil change. It will alert you to change your oil on a schedule consistent with your driving conditions. DIC Warnings and Messages Messages are displayed on the DIC to notify the driver that the status of the vehicle has changed and that some action may be needed by the driver to correct the condition. More than one message may appear at one time. ENGINE COOLANT HOT/ENGINE OVERHEATED If the cooling system temperature gets hot, this message will appear in the DIC and you will hear a chime. See Engine Overheating on page 5-26 for the proper course of action. This message will clear when the coolant temperature drops to a safe operating temperature. OIL PRESSURE LOW/STOP ENGINE If low oil pressure levels occur, this message will be displayed on the DIC. Stop the vehicle as soon as safely possible and do not operate it until the cause of the low oil pressure has been corrected. Check your oil as soon as possible and have your vehicle serviced by your GM dealer. SERVICE BRAKE SYSTEM If a problem occurs with the brake system this message will appear on the DIC. If this message appears, stop as soon as possible and turn off the vehicle. Restart the vehicle and check for the message on the DIC display. If the message is still displayed, or appears again when you begin driving, the brake system needs service. Page 193 Lock Doors Press the customization button until LOCK DOORS: IN GEAR appears in the display. To select your preference for automatic locking, press the select button while LOCK DOORS: IN GEAR is displayed on the DIC. Pressing the select button will scroll through the following choices: LOCK DOORS: IN GEAR (default): The doors will lock when the vehicle is shifted out of PARK (P). Page 194 LOCK FEEDBACK: OFF: There will be no feedback when locking the vehicle. LOCK FEEDBACK: LAMPS: The parking lamps will flash each time you press the button with the lock symbol on the remote keyless entry transmitter. LOCK FEEDBACK: HORN: The horn will chirp the second time you press the button with the lock symbol on the remote keyless entry transmitter. Page 195 • HEADLAMP DELAY: 1 MIN • HEADLAMP DELAY: 2 MIN • HEADLAMP DELAY: 3 MIN • HEADLAMP DELAY: OFF The amount of time you choose will be the amount of time that the headlamps stay on after you turn off the vehicle. Page 196 Curb View Press the customization button until CURB VIEW: OFF appears in the display. To select your preference for curb view, press the select button while CURB VIEW: OFF is displayed on the DIC. Pressing the select button will scroll through the following choices: CURB VIEW: OFF (default): The passenger's outside mirror will not be tilted down when the vehicle is shifted into REVERSE (R). Page 197 Language To select your preference for display language, press the select button while LANGUAGE is displayed on the DIC. Pressing the select button will scroll through the following languages: • ENGLISH • FRANCAIS (French) • ESPANOL (Spanish) Choose one of the available options and press the customization button while it is displayed on the DIC to select it. Audio System(s) Notice: Before adding any sound equipment to your vehicle, such as an audio system, CD player, CB radio, mobile telephone, or two-way radio, make sure that it can be added by checking with your dealer. Also, check federal rules covering mobile radio and telephone units. Radio with CD (Base Level) Base Radio Shown, Bose ® If your vehicle has the Bose audio system, your ® vehicle will have six Bose amplified speakers. Radio Data System (RDS) The audio system has a Radio Data System (RDS). RDS features are available for use only on FM stations that broadcast RDS information. XM™ Satellite Radio Service XM™ is a satellite radio service that is based in the 48 contiguous Untied States. XM™ offers 100 coast-to-coast channels including music, news, sports, talk, and children's programming. XM™ provides digital quality audio and text information that includes song title and artist name. Finding a Station BAND: Press this button to switch between FM1, FM2, AM, or XM1 or XM2 (if equipped). The display will show the selection. TUNE: Turn this knob to select radio stations. © ¨ SEEK : Press either the SEEK or the TYPE arrows to go to the next or to the previous station and stay there. Page 202 Setting the Tone (Bass/Treble) AUDIO: Push and release the AUDIO knob until BASS, ® MID (without Bose), or TREB appears on the display. Turn the knob to increase or to decrease. The display will show the bass, midrange (without Bose If a station is weak or noisy, decrease the treble. Finding a Program Type (PTY) Station (RDS and XM™) To select and find a desired PTY perform the following: 1. Press the TYPE button to activate program type select mode. TYPE and a PTY will appear on the display. 2. Turn the TYPE knob or press and release the TYPE button to select a PTY. Setting Preset PTYs (RDS Only) These buttons have factory PTY presets. Up to 12 PTYs (six FM1 and six FM2), can be programmed on the six numbered pushbuttons, by performing the following steps: 1. Press BAND to select FM1 or FM2. 2. Page 205 Radio Display Message XL (Explicit Language XL on the radio display, Channels) after the channel name, indicates content with explicit language. Updating Updating encryption code No Signal Loss of signal Loading XM Acquiring channel audio (after 4 second delay) CH Off Air Channel not in service CH Unavail Channel no longer... Page 206 Radio Display Message No Info Category Name not available No Info No Text/Informational message available Not Found No channel available for the chosen category XM Locked Theft lock active Radio ID Radio ID label (channel 0) Unknown Radio ID not known (should only be if hardware failure) Chk XMRcvr... Playing a CD Insert a CD partway into the slot, label side up. The player will pull it in and the CD should begin playing. If you want to insert a CD with the ignition off, first press the eject button or the INFO knob. If the ignition or radio is turned off with the CD in the player, it will stay in the player. Page 208 6 RDM (Random): Press this pushbutton to hear the tracks in random, rather than sequential, order. RDM ON will appear on the display. RDM T and the track number will appear on the display when each track starts to play. Press this pushbutton again to turn off random play. Radio with CD (MP3) Base Radio Shown, Bose ® If your vehicle has the Bose audio system, your ®

vehicle will have six Bose amplified speakers. Radio Data System (RDS) The audio system has a Radio Data System (RDS). RDS features are available for use only on FM stations that broadcast RDS information. Page 210 XM™ Satellite Radio Service XM™ is a satellite radio service that is based in the 48 contiguous United States. XM™ offers 100 coast-to-coast channels including music, news, sports, talk, and children's programming. XM™ provides digital quality audio and text information that includes song title and artist name. Page 211 Finding a Station BAND: Press this button to switch between FM1, FM2, AM, or XM1 or XM2 (if equipped). The display will show the selection. TUNE : Turn this knob to select radio stations. SEEK : Press the right or the left arrow to go to the next or to the previous station and stay there. Page 212 Setting the Tone (Bass/Treble) AUDIO: Push and release the AUDIO knob until BASS, ® MID (midbass) or TREB (treble) appear on the display. Turn the knob to increase or to decrease. The display will show the bass, midrange (without Bose or the treble level. Page 213 Finding a Program Type (PTY) Station (RDS and XM™) To select and find a desired PTY perform the following: 1. Turn the P-TYPE knob to select a PTY. 2. Once the desired PTY is displayed, press the SEEK TYPE button to select and to take you to the PTY's first station. Page 214 INFO (information): If the current station has a message, the information symbol will appear on the display. Press this button to see the message. The message may display the artist, song title, call in phone numbers, etc. If the entire message is not displayed, parts of the message will appear every three seconds. Page 215 Radio Display Messages XL (Explicit Language XL on the radio display, Channels) after the channel name, indicates content with explicit language. Updating Updating encryption code No Signal Loss of signal Loading Acquiring channel audio (after 4 second delay) Off Air Channel not in service CH Unavl Channel no longer available Page 216 Radio Display Messages No Info Category name not available No Info Text/Informational message available Not Found No channel available for the chosen category XM Lock Theft lock active Radio ID Radio ID label (channel 0) Unknown Radio ID not known (should only be if hardware failure) Chk XM... Page 217 Playing a CD Insert a CD partway into the slot, label side up. The player will pull it in, and READING will appear on the display. If you want to insert a CD with the ignition off, first press the eject button or the DISPL knob. SEEK : Press the left arrow to go to the start of the current or the previous track. Press the right arrow to go to the start of the next track. Pressing either arrow for more than two seconds will scan the previous or next tracks at five to eight seconds per track. Page 219 Root Directory The root directory will be treated as a folder. If the root directory has compressed audio files, the directory will be displayed as F1 ROOT. All files contained directly under the root directory will be accessed prior to any root directory folders. However, playlists (Px) will always be accessed before root folders or files. Page 220 File System and Naming The song name that will be displayed will be the song name that is contained in the ID3 tag. If the song name is not present in the ID3 tag, then the radio will display the file name without the extension (such as .mp3) as the track name. Page 221 1 FLD (Previous Folder): Press this pushbutton to go to the first track in the previous folder. Pressing this button while in folder random mode will take you to the first track in the previous folder and random the tracks in that folder. 2 FLD (Next Folder): Press this pushbutton to go to the first track in the next folder. Page 222 DISPL (Display): Press this knob to switch between track name, folder/playlist mode, and time of day mode. The display will show only eight characters, but there can be up to four pieces of text. If there are more than eight characters in the song, folder, or playlist name, pressing this knob within two seconds will take you to the next piece of text. CD Messages CHECK CD: If this message appears on the display and/or the CD comes out, it could be for one of the following reasons: • It is very hot. When the temperature returns to normal, the CD should play. •... Page 224 Radio Data System (RDS) The audio system has a Radio Data System (RDS). RDS features are available for use only on FM stations that broadcast RDS information. With RDS, the radio can do the following: • Seek to stations broadcasting the selected type of programming •... Page 225 For XM™ (if equipped), press the INFO knob while in XM™ mode to retrieve four different categories of information related to the current song or channel: Artist, Song Title, Category or PTY, Channel Number/Channel Name. To change the default on the display, press the INFO knob until you see the display you want, then hold the knob for two seconds. Page 226 Setting Preset Stations Up to 30 stations (six FM1, six FM2, and six AM, six XM1 and six XM2 (if equipped)), can be programmed on the six numbered pushbuttons, by performing the following steps: 1. Turn the radio on. 2. Press BAND to select FM1, FM2, AM, or XM1 or XM2. Page 227 Adjusting the Speakers (Balance/Fade) AUDIO: To adjust the balance between the right and the left speakers, push and release the AUDIO knob until BAL appears on the display. Turn the knob to move the sound toward the right or the left speakers. To adjust the fade between the front and the rear speakers, push and release the AUDIO knob until FADE appears on the display. Page 228 BAND (Alternate Frequency): Alternate frequency allows the radio to switch to a stronger station with the same program type. To turn alternate frequency on, press and hold BAND for two seconds. AF ON will appear on the display. The radio may switch stations to a stronger frequency. Page 229 Radio Display Message XL (Explicit Language XL on the radio display, Channels) after the channel name, indicates content with explicit language. Updating Updating encryption code No Signal Loss of signal Loading XM Acquiring channel audio (after 4 second delay) CH Off Air Channel not in service CH Unavail Channel no longer... Page 230 Radio Display Message No Info Text/Informational message available Not Found No channel available for the chosen category XM Locked Theft lock active Radio ID Radio ID label (channel 0) Unknown Radio ID not known (should only be if hardware failure) Chk XMRcvr... Playing a Cassette Tape The tape player is built to work best with tapes that are up to 30 to 45 minutes long on each side. Tapes longer than that are so thin they may not work well in this player. The longer side with the tape visible should face to the right. 4 FWD (Forward): Press this pushbutton to quickly advance the tape. The radio will play while the tape advances. Press this pushbutton again to return to playing speed. The station frequency and FWD will appear on the display. Select stations during forward operation by using TUNE and SEEK. If the tape player is not playing correctly, for any other reason, try a known good cassette. If any error occurs repeatedly or if an error cannot be corrected, contact your GM dealer. If the radio displays an error message, write it down and provide it to your GM dealer when reporting the problem. Page 234 1 PREV (Previous): Press this pushbutton to go to the beginning of the current track if more than eight seconds have played. TRACK and the track number will appear on the display. If this pushbutton is held or pressed more than once, the player will continue moving backward through the CD. Page 235 BAND: Press this button to listen to the radio when a cassette tape or CD is playing. The inactive tape or CD will remain safely inside the radio for future listening. TAPE DISC: Press this button to play a cassette tape or CD when listening to the radio. Radio with Six-Disc CD Base Radio Sdxm, Base ® If your vehicle has the Bose audio system, your ® vehicle will have six Bose amplified speakers. Radio Data System (RDS) The audio system has a Radio Data System (RDS). RDS features are available for use only on FM stations that broadcast RDS information. Page 237 XM™ Satellite Radio Service XM™ is a satellite radio service that is based in the 48 contiguous United States. XM™ offers 100 coast-to-coast channels including music, news, sports, talk, and children's programming. XM™ provides digital quality audio and text information that includes song title and artist name. Page 238 Finding a Station BAND: Press this button to switch between FM1, FM2, AM, or XM1 or XM2 (if equipped). The display will show the selection. TUNE : Turn this knob to select radio stations. SEEK : Press the right or the left arrow to go to the next or to the previous station and stay there. Page 239 Setting the Tone (Bass/Treble) AUDIO: Push and release the AUDIO knob until BASS, MID (midbass) or TREB appear on the display. Turn the knob to increase or to decrease. The display will show the bass, midrange (without ® ... Page 240 Finding a Program Type (PTY) Station (RDS and XM™) To select and find a desired PTY perform the following: 1. Turn the P-TYPE knob to select a PTY. 2. Once the desired PTY is displayed, press the SEEK TYPE button to select it and to take you to the PTY's first station. Page 241 Setting Preset PTYs (RDS Only) These pushbuttons have factory PTY presets. Up to 12 PTYs (six FM1 and six FM2), can be programmed on the six numbered pushbuttons, by performing the following steps: 1. Press BAND to select FM1 or FM2. 2. Page 242 Radio Display Message XL (Explicit Language XL on the radio display, Channels) after the channel name, indicates content with explicit language. Updating Updating encryption code No Signal Loss of signal Loading XM Acquiring channel audio (after 4 second delay) Off Air Channel not in service CH Unavail Channel no longer... Page 243 Radio Display Message No Info Text/Informational message available Not Found No channel available for the chosen category XM Locked Theft lock active Radio ID Radio ID label (channel 0) Unknown Radio ID not known (should only be if hardware failure) Chk XMRcvr... Page 244 Playing a CD If the ignition or radio is turned off, with a CD in the player, it will stay in the player. When the ignition or radio is turned on, the CD will start playing where it stopped, if it was the last selected audio source. When a CD is inserted, the CD symbol will appear on the display. Page 245 Playing a Specific Loaded CD For every CD loaded, a number will appear on the display. To play a specific CD, first press the CD AUX button, then press the numbered pushbutton that corresponds to the CD. A small bar will appear under the CD number that is playing and the track number will appear on the display. Page 246 To use repeat, do the following: • To repeat the track you are listening to, press and release the RPT button. The RPT will appear on the display. Press RPT again to turn off repeat play. • To repeat the CD you are listening to, press and hold the RPT button for more than two seconds. Page 247 Using the Six-disc CD Mode This mode is capable of saving 20 track selections. To save tracks into the song list feature, perform the following steps: 1. Turn the CD player on and load it with at least one CD. Page 248 To delete the entire song list, perform the following steps: 1. Turn the CD player on. 2. Press the SONG LIST button to turn song list on. S-LIST will appear on the display. 3. Press and hold the SONG LIST button for more than four seconds. Listening to a DVD If your vehicle has the Rear Seat Entertainment (RSE) system and a DVD is playing, the DVD symbol will appear on the radio display indicating that the DVD is available and can be listened to through your vehicle's speakers. Headphones The RSE system includes two sets of wireless headphones. Each set of headphones has an ON/OFF control. An indicator light will illuminate on the headphones when they are on. If the light no longer illuminates, the batteries may need to be replaced. See "Battery Replacement"... To use the auxiliary inputs on the RSE system, connect an external auxiliary device to the color-coded RCA jacks and turn both the auxiliary device and the RSE system power on. If the RSE system had been previously in the DVD player mode, pressing the SRCE button on the faceplate or the remote control will switch the RSE system between the auxiliary inputs and the DVD player. Video Screen The video screen is located in the overhead console. To use the video screen, push forward on the release latch and the screen will fold down. Adjust the screen's position as desired. When the video screen is not in use, push it up into its latched position. Page 253 DVD Player Buttons (Power): Press this button to turn the DVD player on and off. The power indicator light will illuminate when the power is on. (Eject): Press this button to eject a DVD or CD. SRCE (Source): Press this button to switch between the DVD player and an auxiliary source. Playing a Disc To play a disc, gently insert the disc with the label side up into the loading slot. The DVD player will continue loading the disc and the player will automatically start, if the vehicle is in RUN, ACCESSORY, or when RAP is active. Page 255 Remote Control Buttons (Power): Press this button to turn the DVD player on and off. (Title): Press this button to return the DVD to the main menu of the DVD. (Menu Navigation Arrows): Use the arrow buttons to navigate through a menu. (Set-up Menu): Press this button to adjust the color, tint, brightness, contrast, display mode, and dynamic range compression. Page 256 1 through 0 (Numeric Keypad): The numeric keypad provides you with the capability of direct chapter, title, and track numbers greater than 9. Press this button before inputting the number. (Clear): Press this button within three seconds after inputting a number to clear the numbers(s). Page 257 Battery Replacement To change the remote control batteries, do the following: 1. Remove the battery compartment door located on the bottom of the remote control. 2. Replace the two AA batteries in the compartment. Make sure that they are installed correctly, using the diagram on the inside of the battery compartment. Page 258 Problem Recommended Action In auxiliary mode, the Check the auxiliary input connections at both devices. ... Cleaning the Video Screen Pour some isopropyl or rubbing alcohol on a clean cloth and gently wipe the video screen. Do not spray directly onto the screen and do not press too hard or too long on the video screen. ... To scan preset stations, press and hold the SEEK button for two seconds and the radio will advance to the next preset station. Audio Steering Wheel Controls If your vehicle has this feature, some audio functions can be adjusted at the steering wheel. They include the following: (OnStar/Voice Recognition): If your vehicle has ® OnStar , press this button to interact with the OnStar ® ... Radio Reception The range for most AM stations is greater than for FM, especially at night. The longer range can cause station frequencies to interfere with each other. Static can occur on AM stations caused by things like storms and power lines. Try reducing the treble to reduce this noise. The broken tape detection feature of the cassette tape player may identify the cleaning cassette as a damaged tape, in error. To prevent the cleaning cassette from being ejected, use the following steps: 1. Turn the ignition on. 2. Turn the radio off. 3. Fixed Mast Antenna The fixed mast antenna can withstand most car washes without being damaged. If the mast should ever become slightly bent, straighten it out by hand. If the mast is badly bent, replace it. Check occasionally to make sure the mast is still tightened to the fender. Page 266 NOTES 3-130... Section 4 Your Driving, the Road, and Your Vehicle ...4-2 Defensive Driving ...4-2 Drunken Driving ...4-2 Control of a Vehicle ...4-5 Braking ...4-5 Anti-Lock Brake System (ABS) ...4-6 Braking in Emergencies ...4-8 Traction Assist System (TAS) ...4-8 Locking Rear Axle ...4-10 Steering ...4-10 Off-Road Recovery ...4-12 Passing ...4-12... Your Driving, the Road, and Your Vehicle Defensive Driving The best advice anyone can give about driving is: Drive defensively. Please start with a very important safety device in your vehicle: Buckle up. See Safety Belts: They Are for Everyone on page 1-12. Defensive driving really means "be ready for anything." ... Page 269 Many adults — by some estimates, nearly half the adult population — choose never to drink alcohol, so they never drive after drinking. For persons under 21, it is against the law in every U.S. state to drink alcohol. There are good medical, psychological and developmental reasons for these laws. Page 270 There is a gender difference, too. Women generally have a lower relative percentage of body water than men. Since alcohol is carried in body water, this means that a woman generally will reach a higher BAC level than a man of her same body weight will when each has the same number of drinks. CAUTION: Drinking and then driving is very dangerous. Your reflexes, perceptions, attentiveness, and judgment can be affected by even a small amount of alcohol. You can have a serious — or even fatal — collision if you drive after drinking. Please do not drink and drive or ride with a driver who has been drinking. 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. Page 273 Let us say the road is wet and you are driving safely. Suddenly, an animal jumps out in front of you. You slam on the brakes and continue braking. Here is what happens with ABS: A computer senses that wheels are slowing down. If one of the wheels is about to stop rolling, the computer will separately work the brakes at each front wheel and at both rear wheels. Remember: Anti-lock does not change the time you need to get your foot up to the brake pedal or always decrease stopping distance. If you get too close to the vehicle in front of you, you will not have time to apply your brakes if that vehicle suddenly slows or stops. Page 275 The traction control part of the symbol on the button will come on under the following conditions: • The Traction Assist System is turned off, either by pressing the on/off button or by turning off the automatic engagement feature of the TAS. • ... Locking Rear Axle If your vehicle has this feature, your locking rear axle can give you additional traction on snow, mud, ice, sand or gravel. It works like a standard axle most of the time, but when one of the rear wheels has no traction and the other does, this feature will allow the wheel with traction to move the vehicle. 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. Off-Road Recovery You may find that your right wheels have dropped off the edge of a road onto the shoulder while you are 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. • Do not get too close to the vehicle you want to pass while you are awaiting an opportunity. For one thing, following too closely reduces your area of vision, especially if you are following a larger vehicle. Also, you will not have adequate space if the vehicle ahead suddenly slows or stops. Page 280 Skidding In a skid, a driver can lose control of the vehicle. Defensive drivers avoid most skids by taking reasonable care suited to existing conditions, and by not overdriving those conditions. But skids are always possible. The three types of skids correspond to your vehicle's three control systems. Page 281 Off-Road Driving with Your Four-Wheel-Drive Vehicle This off-road guide is for vehicles that have four-wheel drive. Also, see Braking on page 4-5. If your vehicle does not have four-wheel drive, you should not drive off-road unless you are on a level, solid surface. Off-road driving can be great fun. Page 282 Loading Your Vehicle for Off-Road Driving There are some important things to remember about how to load your vehicle. • The heaviest things should be on the load floor and forward of your rear axle. Put heavier items as far forward as you can. Environmental Concerns Off-road driving can provide wholesome and satisfying recreation. However, it also raises environmental concerns. We recognize these concerns and urge every off-roader to follow these basic rules for protecting the environment: • Always use established trails, roads and areas that have been specially set aside for public off-road recreational driving;... Controlling your vehicle is the key to successful off-road driving. One of the best ways to control your vehicle is to control your speed. Here are some things to keep in mind. At higher speeds: • you approach things faster and you have less time to scan the terrain for obstacles. When you drive over obstacles or rough terrain, keep a firm grip on the steering wheel. Ruts, troughs or other surface features can jerk the wheel out of your hands if you are not prepared. When you drive over bumps, rocks, or other obstacles, your wheels can leave the ground. Approaching a Hill When you approach a hill, you need to decide if it is one of those hills that is just too steep to climb, descend or cross. Steepness can be hard to judge. On a very small hill, for example, there may be a smooth, constant incline with only a small change in elevation where you can easily see all the way to the top. Page 287 • Sound the horn as you approach the top of the hill to let opposing traffic know you are there. • Use your headlamps even during the day. They make you more visible to oncoming traffic. CAUTION: Driving to the top (crest) of a hill at full speed can cause an accident. Page 288 Here are some things you must not do if you stall, or are about to stall, when going up a hill. • Never attempt to prevent a stall by shifting into NEUTRAL (N) to re-rev the engine and regain forward momentum. This will not work. Your vehicle will roll backward very quickly and you could go out of control. Driving Downhill When off-roading takes you downhill, you will want to consider a number of things: • How steep is the downhill? Will I be able to maintain vehicle control? • What is the surface like? Smooth? Rough? Slippery? Hard-packed dirt? Gravel? • ... Am I likely to stall when going downhill? It is much more likely to happen going uphill. But if it happens going downhill, here is what to do. 1. Stop your vehicle by applying the regular brakes. Apply the parking brake. Page 291 What should I do if I feel my vehicle starting to slide sideways? If you feel your vehicle starting to slide sideways, turn downhill. This should help straighten out the vehicle and prevent the side slipping. Driving in Mud, Sand, Snow or Ice When you drive in mud, snow or sand, your wheels will not get good traction. You cannot accelerate as quickly, turning is more difficult, and you will need longer braking distances. It is best to use a low gear when you are in mud — the deeper the mud, the lower the gear. Page 293 If the water is not too deep, drive slowly through it. At faster speeds, water splashes on your ignition system and your vehicle can stall. Stalls can also occur if you get your tailpipe under water. And, as long as your tailpipe is under water, you will never be able to start your engine. 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. 4-28 Here are some tips on night driving. • ... You can be temporarily blinded by approaching headlamps. It can take a second or two, or even several seconds, for your eyes to re-adjust to the dark. When you are faced with severe glare, as from a driver who does not lower the high beams, or a vehicle with misaimed headlamps, slow down a little. Page 296 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. 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 are going fast enough. When your vehicle is hydroplaning, it has little or no contact with the road. City Driving One of the biggest problems with city streets is the amount of traffic on them. You will want to watch out for what the other drivers are doing and pay attention to traffic signals. 4-32 Here are ways to increase your safety in city driving: • ... 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. Just before you leave the lane, glance quickly over your shoulder to make sure there is not another vehicle in your blind spot. Once you are moving on the freeway, make certain you allow a reasonable following distance. Expect to move over slightly to the right... 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? • ... Hill and Mountain Roads Driving on steep hills or mountains is different from driving in flat or rolling terrain. 4-36 If you drive regularly in steep country, or if you are planning to visit there, here are some tips that can make your trips safer and more enjoyable. Page 303 CAUTION: Coasting downhill in NEUTRAL (N) or with the ignition off is dangerous. Your brakes will have to do all the work of slowing down. They could get so hot that they would not work well. Keep your vehicle in gear when you go down a hill. Winter Driving Here are some tips for winter driving: • Have your vehicle in good shape for winter. • You may want to put winter emergency supplies in your vehicle. Also see Tires on page 5-50. 4-38 Include an ice scraper, a small brush or broom, a supply of windshield washer fluid, a rag, some winter outer clothing, a small shovel, a flashlight, a red cloth, and reflective warning triangles. Page 305 What is the worst time for this? Wet ice. Very cold snow or ice can be slick and hard to drive on. But wet ice can cause the most trouble because it may offer the least traction of all. You can get wet ice when it is about freezing, 32°F (0°C), and freezing rain begins to fall. Your anti-lock brake system (ABS) improves your vehicle's stability when you make a hard stop on a slippery road. Even though you have ABS, you will want to begin stopping sooner than you would on dry pavement. See Anti-Lock Brake System (ABS) on page 4-6. Page 307 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 cannot see it or smell it, so you might not know it is in your vehicle. ... Page 310 Tire and Loading Information Label Example A vehicle specific Tire and Loading Information label is attached to the center pillar (B-pillar). With the driver's door open, you will find the label attached below the door lock post (striker). The tire and loading information label shows the number of occupant seating positions (A), and the maximum vehicle capacity weight (B) in kilograms and pounds. Page 311 4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if the "XXX" amount equals 1400 lbs and there will be five 150 lb passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs (1400 750 (5 x 150) = 650 lbs). Page 312 Example 2 Item Description Total Example 1 Vehicle Capacity Weight for Example 1 = 1,000 lbs (453 kg) 750 lbs (136 kg) 250 lbs (113 kg) Refer to your vehicle's tire and loading information label for specific information about your vehicle's capacity weight and seating positions. Page 313 Certification/Tire Label A vehicle specific Certification/Tire label is found on the rear edge of the driver's door. The label shows the size of your vehicle's original tires and the inflation pressures needed to obtain the gross weight capacity of your vehicle. This is called the Gross Vehicle Weight Rating (GVWR). Page 314 CAUTION: Do not load your vehicle any heavier than the Gross Vehicle Weight Rating (GVWR), or either the maximum front or rear Gross Axle Weight Rating (GAWR). If you do, parts on your vehicle can break, and it can change the way your vehicle handles. Page 315 Electronically Controlled Air Suspension System Your vehicle may be equipped with an electronically controlled air suspension system that automatically keeps your vehicle level as you load and unload. The system includes a compressor, two height sensors and two air springs supporting the rear axle. The system also has an internal clock to prevent overheating. Indicator Light The indicator light on the inflator switch in the rear passenger compartment also serves as an indicator for internal system error. If the indicator light is flashing without the load leveling function or the inflator being active, turn off the ignition. The next day turn on the ignition and check the indicator light. With the proper preparation and equipment, many vehicles can be towed in these ways. See "Dinghy Towing" and "Dolly Towing," following. You may also need brakes for the vehicle being towed. See your dealer for additional towing information. Here are some important things to consider before you recreational tow your vehicle: • ... Page 318 Four-Wheel-Drive Vehicles Four-wheel-drive vehicles can be dinghy towed if you follow the proper procedures. The transmission has no provisions for internal lubrication while being towed, so it is important that you follow all of the steps listed in this manual to dinghy tow your four-wheel-drive vehicle. Dolly Towing Front Towing (Front Wheels Off the Ground) Two-Wheel-Drive Vehicles Notice: If you tow a two-wheel-drive vehicle with the rear wheels on the ground, the transmission could be damaged. The repairs would not be covered by your warranty. Never tow your vehicle with the rear wheels on the ground. Page 320 Rear Towing (Rear Wheels Off the Ground) (Two-Wheel or Four-Wheel Drive Vehicles) Use the following procedure to tow your vehicle from the rear: 1. Drive the vehicle onto the dolly. 2. Firmly set the parking brake. See Parking Brake on page 2-31 for more information. 4-54 3. Towing a Trailer CAUTION: If you do not 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. 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. Page 323 Look in the following chart to find the maximum trailer weight for your vehicle. ... The Gross Combination Weight Rating (GCWR) is the total allowable weight of the completely loaded vehicle and trailer including any passengers, cargo, ... In Canada, write to: General Motors of Canada Limited Customer Communication Centre, 163-005 1908 Colonel Sam Drive Oshawa, Ontario L1H 8P7 Weight of the Trailer Tongue The tongue load (A) of any trailer is an important weight to measure because it affects the total or gross weight of your vehicle. Page 325 Total Weight on Your Vehicle's Tires Be sure your vehicle's tires are inflated to the upper limit for cold tires. You'll find these numbers on the Certification label at the rear edge of the driver's door. See Loading Your Vehicle on page 4-43 for more information. If you will be pulling a trailer that, when loaded, will weigh more than 4,000 lbs (1 814 kg) be sure to use a properly mounted weight-distributing hitch and sway control of the proper size. This equipment is very important for proper vehicle loading and good handling when you are driving. Driving with a Trailer CAUTION: If you have a rear-most window open and you pull a trailer with your vehicle, carbon monoxide (CO) could come into your vehicle. You can not see or smell CO. It can cause unconsciousness or death. See Engine Exhaust on page 2-35. 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 will need more passing distance up ahead when you are towing a trailer. Driving On Grades Reduce speed and shift to a lower gear before you start down a long or steep downgrade. If you do not shift down, you might have to use your brakes so much that they would get hot and no longer work well. You can tow in DRIVE (D). 4. Reapply the regular brakes. Then apply your parking brake and then shift into PARK (P). 5. Release the regular brakes. CAUTION: It can be dangerous to get out of your vehicle if the shift lever is not fully in PARK (P) with the parking brake firmly set. Trailer Wiring Harness Your vehicle may be equipped with the seven-wire trailer towing harness. This harness has a seven-pin universal heavy-duty trailer connector that is attached to a bracket on the hitch platform. The seven wires inside the harness are: Page 332 NOTES 4-66... Section 5 Service and Appearance Care ...5-3 Service ...5-3 Doing Your Own Service Work ...5-4 Adding Equipment to the Outside of Your Vehicle ...5-5 Fuel ...5-5 Gasoline Octane ...5-5 Gasoline Specifications ...5-5 California Fuel ...5-6 Additives ...5-6 Fuels in Foreign Countries ...5-7 Filling the Tank ...5-8 Filling a Portable Fuel Container ...5-10 Checking Things Under the Hood ...5-10 Hood Release ...5-11... Page 334 Section 5 Service and Appearance Care ...5-62 Tire Chains ...5-63 Accessory Inflator ...5-64 If a Tire Goes Flat ...5-65 Changing a Flat Tire ...5-66 Removing the Spare Tire and Tools ...5-67 Removing the Flat Tire and Installing the Spare Tire ...5-70 Secondary Latch System ...5-75 Storing a Flat or Spare Tire and Tools ...5-77 Storing the Spare Tire and Tools ...5-81... Service Your dealer knows your vehicle best and wants you to be happy with it. We hope you will go to your dealer for all your service needs. You will get genuine GM parts and GM-trained and supported service people. We hope you will want to keep your GM vehicle all GM. Doing Your Own Service Work If you want to do some of your own service work, you will want to use the proper service manual. It tells you much more about how to service your vehicle than this manual can. To order the proper service manual, see Service Publications Ordering Information on page 7-11. It is recommended that gasoline meet specifications which were developed by automobile manufacturers around the world and contained in the World-Wide Fuel Charter which is available from the Alliance of Automobile Manufacturers at www.autoalliance.org/fuel_charter.htm. Gasoline meeting these specifications could provide improved driveability and emission control system performance compared to other gasoline. California Fuel If your vehicle is certified to meet California Emission Standards, it is designed to operate on fuels that meet California specifications. See the underhood emission control label. If this fuel is not available in states adopting California emissions standards, your vehicle will operate satisfactorily on fuels meeting federal specifications, but emission control system performance may be affected. Notice: Your vehicle was not designed for fuel that contains methanol. Do not use fuel containing methanol. It can corrode metal parts in your fuel system and also damage plastic and rubber parts. That damage would not be covered under your warranty. Filling the Tank CAUTION: Fuel vapor burns violently and a fuel fire can cause bad injuries. To help avoid injuries to you and others, read and follow all the instructions on the pump island. Turn off your engine when you are refueling. Do not smoke if you are near fuel or refueling your vehicle. Page 341 CAUTION: If you spill fuel and then something ignites it, you could be badly burned. Fuel can spray out on you if you open the fuel cap too quickly. This spray can happen if your tank is nearly full, and is more likely in hot weather. Open the fuel cap slowly and wait for any hiss noise to stop. Filling a Portable Fuel Container CAUTION: Never fill a portable fuel container while it is in your vehicle. Static electricity discharge from the container can ignite the gasoline vapor. You can be badly burned and your vehicle damaged if this occurs. To help avoid injury to you and others: •... Hood Release 1. To open the hood, first pull the handle with this symbol on it. It is located inside the vehicle under the instrument panel on the driver's side. 2. Then go to the front of the vehicle and release the secondary hood release. Engine Compartment Overview When you open the hood on the 4.2L L6 engine, here is what you will see: 5-12... Page 345 A. Engine Air Cleaner/Filter. See Engine Air Cleaner/Filter on page 5-19. B. Engine Coolant Recovery Tank. See Cooling System on page 5-28. C. Windshield Washer Fluid Reservoir. See "Adding Washer Fluid" under Windshield Washer Fluid on page 5-34. D. Power Steering Fluid Reservoir. See Power Steering Fluid on page 5-34. Page 346 When you open the hood on the 5.3L V8 engine, here is what you will see: 5-14... A. Engine Coolant Recovery Tank. See Cooling System on page 5-28. B. Engine Air Cleaner/Filter. See Engine Air Cleaner/Filter on page 5-19. C. Windshield Washer Fluid Reservoir. See "Adding Washer Fluid" under Windshield Washer Fluid on page 5-34. D. Engine Oil Dipstick. See "Checking Engine Oil" under Engine Oil on page 5-15. When to Add Engine Oil L6 Engine V8 Engine If the oil is below the L mark for the L6 engine or the cross-hatched area at the tip of the dipstick for the V8 engine, you will need to add at least one quart/liter of oil. 5-16 But you must use the right kind. What Kind of Engine Oil to Use Look for two things: • GM6094M Your vehicle's engine requires oil meeting GM Standard GM6094M. You should look for and use only an oil that meets GM Standard GM6094M. • SAE 5W-30 As shown in the viscosity chart, SAE 5W-30 is best for your vehicle. If you are in an area of extreme cold, where the temperature falls below 20°F (29°C), it is recommended that you use either an SAE 5W-30 synthetic oil or an SAE 0W-30 oil. Both will provide easier cold starting and better protection for your engine at extremely low temperatures. To reset the change engine oil light, do the following: 1. Turn the ignition key to RUN with the engine off. 2. Fully press and release the accelerator pedal slowly three times within five seconds. 3. Turn the key to LOCK. If the change engine oil light comes back on when you start your vehicle, the engine oil life system has not reset. When to Inspect the Engine Air Cleaner/Filter Inspect the air cleaner/filter at the Maintenance II intervals and replace at the first oil change after each 50,000 mile (83 000 km) interval. See Scheduled Maintenance on page 6-4 for more information. If you are driving in dusty/dirty conditions, inspect the filter at each engine oil change. Automatic Transmission Fluid When to Check and Change Automatic Transmission Fluid A good time to check your automatic transmission fluid level is when the engine oil is changed. Change the fluid and filter at the intervals listed in Additional Required Services on page 6-6, and be sure to use the transmission fluid listed in Recommended Fluids and Lubricants on page 6-12. Page 354 Checking the Fluid Level Prepare your vehicle as follows: • Park your vehicle on a level place. Keep the engine running. • With the parking brake applied, place the shift lever in PARK (P). • With your foot on the brake pedal, move the shift lever through each gear range, pausing for about three seconds in each range. How to Add Automatic Transmission Fluid Refer to the Maintenance Schedule to determine what kind of transmission fluid to use. See Recommended Fluids and Lubricants on page 6-12. Add fluid only after checking the transmission fluid while it is hot. A cold check is used only as a reference. If the fluid level is low, add only enough of the proper fluid to bring the level up to the HOT area for a hot check. What to Use Use a mixture of one-half clean, drinkable water and ® one-half DEX-COOL coolant. If you use this coolant mixture, you do not need to add anything else. CAUTION: Adding only plain water to your cooling system can be dangerous. Plain water, or some other liquid such as alcohol, can boil before the proper coolant mixture will. Page 357 Adding Coolant If you need more coolant, add the proper DEX-COOL coolant mixture at the coolant recovery tank. CAUTION: Turning the radiator pressure cap when the engine and radiator are hot can allow steam and scalding liquids to blow out and burn you badly. Radiator Pressure Cap Notice: If the pressure cap is not tightly installed, coolant loss and possible engine damage may occur. Be sure the cap is properly and tightly secured. See Engine Compartment Overview on page 5-12 for information on location. Engine Overheating You will find a coolant temperature gage on your vehicle's instrument panel. If No Steam Is Coming From Your Engine If you get an engine overheat warning but see or hear no steam, the problem may not be too serious. Sometimes the engine can get a little too hot when you: • Climb a long hill on a hot day. Cooling System When you decide it is safe to lift the hood, here is what you will see: 4.2L L6 Engine A. Coolant Recovery Tank B. Radiator Pressure Cap C. Engine Fan 5-28 5.3L V8 Engine A. Coolant Recovery Tank B. Page 361 The coolant level should be at least up to the FULL COLD mark. If it is not, you may have a leak at the pressure cap or in the radiator hoses, heater hoses, radiator, water pump, or somewhere else in the cooling system. CAUTION: Heater and radiator hoses, and other engine parts, can be very hot. Page 362 How to Add Coolant to the Coolant Recovery Tank If you have not found a problem yet, but the coolant level is not at the FULL COLD mark, add a 50/50 mixture of clean, drinkable water and DEX-COOL engine coolant at the coolant recovery tank. See Engine Coolant on page 5-23 for more information. If the overheat warning continues, there is one more thing you can try. You can add the proper coolant mixture directly to the radiator, but be sure the cooling system is cool before you do it. CAUTION: Steam and scalding liquids from a hot cooling system can blow out and burn you badly. Page 364 3. Fill the radiator with the proper DEX-COOL coolant mixture, up to the base of the filler neck. See Engine Coolant on page 5-23 for more information about the proper coolant mixture. 5-32 ® 4. Then fill the coolant recovery tank to the FULL COLD mark. 6. Start the engine and let it run until you can feel the upper radiator hose getting hot. Watch out for the engine cooling fan. 7. By this time, the coolant level inside the radiator filler neck may be lower. If the level is lower, add more of the proper DEX-COOL through the filler neck until the level reaches the base of the filler neck. Power Steering Fluid See Engine Compartment Overview on page 5-12 for reservoir location. When to Check Power Steering Fluid It is not necessary to regularly check power steering fluid unless you suspect there is a leak in the system or you hear an unusual noise. Adding Washer Fluid Open the cap with the washer symbol on it. Add washer fluid until the tank is full. See Engine Compartment Overview on page 5-12 for reservoir location. Notice: • When using concentrated washer fluid, follow the manufacturer's instructions for adding water. •... So, it is not a good idea to top off your brake fluid. Adding brake fluid will not correct a leak. If you add fluid when your linings are worn, you will 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. Always clean the brake fluid reservoir cap and the area around the cap before removing it. This will help keep dirt from entering the reservoir. CAUTION: With the wrong kind of fluid in your brake system, your brakes may not work well, or they may not even work at all. Properly torqued wheel nuts are necessary to help prevent brake pulsation. When tires are rotated, inspect brake pads for wear and evenly tighten wheel nuts in the proper sequence to GM torque specifications. Brake linings should always be replaced as complete axle sets. Vehicle Storage If you are not going to drive your vehicle for 25 days or more, remove the black, negative ( ) cable from the battery. This will help keep your battery from running down. CAUTION: Batteries have acid that can burn you and gas that can explode. Page 372 2. Get the vehicles close enough so the jumper cables can reach, but be sure the vehicles are not touching each other. If they are, it could cause a ground connection you do not want. You would not be able to start your vehicle, and the bad grounding could damage the electrical systems. Page 373 CAUTION: Fans or other moving engine parts can injure you badly. Keep your hands away from moving parts once the engine is running. 5. Check that the jumper cables do not have loose or missing insulation. If they do, you could get a shock. Page 374 4.2L L6 Engine The remote negative ( ) terminal is located on the front engine lift bracket for the 4.2L L6 engine, and on the accessory drive bracket for the 5.3L V8 engine. 9. Connect the other end of the negative ( ) cable to the remote negative ( ) terminal on the vehicle with the dead battery. To disconnect the jumper cables from both vehicles, do the following: 1. Disconnect the black negative ( ) cable from the vehicle that had the dead battery. 2. Disconnect the black negative ( ) cable from the vehicle with the good battery. 3. Four-Wheel Drive Transfer Case When to Check Lubricant It is not necessary to regularly check fluid unless you suspect there is a leak or you hear an unusual noise. A fluid loss could indicate a problem. Have it inspected and repaired. How to Check Lubricant To get an accurate reading, the vehicle should... How to Check Lubricant To get an accurate reading, the vehicle should be on a level surface. If the level is below the bottom of the filler plug hole, you may need to add some lubricant. When the differential is cold, add enough lubricant to raise the level to 1/2 inch (12 mm) below the filler plug hole. Headlamps, Front Turn Signal, Sidemarker, and Parking Lamps To replace a headlamp, front turn signal/parking or sidemarker bulb, do the following: 1. Open the hood. Hood Release on page 5-11 for more information. 2. Lift the inner quick release clips. 3. 4. Unclip the wiring harness (A) and remove the three socket retaining screws (B). 5. Remove the socket by releasing the retaining tabs. 6. Holding the socket, pull the bulb to release it from the socket. 7. Push the new bulb into the socket until it clicks. 8. Windshield Wiper Blade Replacement Windshield wiper blades should be inspected for wear or cracking. See Scheduled Maintenance on page 6-4. Allowing the wiper blade arm to touch the windshield when no wiper blade is installed could damage the windshield. Any damage that occurs would not be covered by your warranty. Page 381 4. To install the new wiper insert, slide the insert (D), notched end last, into the end with two blade claws (A). Slide the insert all the way through the blade claws at the opposite end (B). The plastic caps (C) will be forced off as the insert is fully inserted. Backglass Wiper Blade Replacement See Windshield Wiper Blade Replacement on page 5-48 for instructions on how to change the backglass wiper blade. The backglass wiper blade will not lock in a vertical position like the windshield wiper blade, so care should be used when pulling it away from the vehicle. Tire Sidewall Labelling Useful information about a tire is molded into the sidewall. The following illustrations are examples of a typical P-Metric and a LT-Metric tire sidewall. Passenger (P-Metric) Tire (A) Tire Size: The tire size code is a combination of letters and numbers used to define a particular tire's width, height, aspect ratio, construction type and service description. Page 384 Light Truck (LT-Metric) Tire (A) Tire Size: The tire size code is a combination of letters and numbers used to define a particular tire's width, height, aspect ratio, construction type and service description. See the "Tire Size" illustration later in this section for more detail. (B) TPC Spec (Tire Performance Criteria Specification): Original equipment tires designed to GM's specific tire performance criteria have a TPC... Tire Size The following examples show the different parts of a tire size. Passenger (P-Metric) Tire Light Truck (LT-Metric) Tire (A) Passenger (P-Metric) Tire: The United States version of a metric tire sizing system. The letter P as the first character in the tire size means a passenger vehicle tire engineered to standards set by the U.S. Tire Terminology and Definitions Air Pressure: The amount of air inside the tire pressing outward on each square inch of the tire. Air pressure is expressed in pounds per square inch (psi) or kilopascal (kPa). Accessory Weight: This means the combined weight of optional accessories. Page 387 Load Index: An assigned number ranging from 1 to 279 that corresponds to the load carrying capacity of a tire. Maximum Inflation Pressure: The maximum air pressure to which a cold tire may be inflated. The maximum air pressure is molded onto the sidewall. Maximum Load Rating: The load rating for a tire at the maximum permissible inflation pressure for that tire. Treadwear Indicators: Narrow bands, sometimes called "wear bars," that show across the tread of a tire when only 1/16 inch (1.6 mm) of tread remains. See When It Is Time for New Tires on page 5-59. UTQGS (Uniform Tire Quality Grading Standards): A tire information system that provides consumers with ratings for a tire's traction, temperature, and treadwear. A Tire and Loading Information label is attached to the vehicle's center pillar (B-pillar), below the driver's door latch. This label shows your vehicle's original equipment tires and the correct inflation pressures for your tires when they are cold. The recommended cold tire inflation pressure, shown on the label, is the minimum amount of air pressure needed to support your vehicle's maximum load carrying capacity. Page 390 The purpose of regular rotation is to achieve more uniform wear for all tires on the vehicle. The first rotation is the most important. See Scheduled Maintenance on page 6-4. When rotating your tires, always use the correct rotation pattern shown here. After the tires have been rotated, adjust the front and rear inflation pressures as shown on the Tire and Loading Information label. When It Is Time for New Tires One way to tell when it's time for new tires is to check the treadwear indicators, which will appear when your tires have only 1/16 inch (1.6 mm) or less of tread remaining. Some commercial truck tires may not have treadwear indicators. If you replace your tires with those not having a TPC Spec number, make sure they are the same size, load range, speed rating and construction type (bias, bias-belted or radial) as your original tires. CAUTION: Mixing tires could cause you to lose control while driving. 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 (1.5) times as well on the government course as a tire graded 100. Wheel Replacement Replace any wheel that is bent, cracked or badly rusted or corroded. If wheel nuts keep coming loose, the wheel, wheel bolts and wheel nuts should be replaced. If the wheel leaks air, replace it (except some aluminum wheels, which can sometimes be repaired). See your dealer if any of these conditions exist. Used Replacement Wheels CAUTION: Putting a used wheel on your vehicle is dangerous. You cannot know how it has been used or how far it has been driven. It could fail suddenly and cause a crash. If you have to replace a wheel, use a new GM original equipment wheel. Accessory Inflator Your vehicle has an accessory inflator system. You can inflate things like basketballs and bicycle tires. You can also use it to bring your tire pressure up to the proper pressure. It is not designed to inflate large objects which will require more than five minutes to inflate, such as an air mattress. To reinstall the cover, line up the tabs at the back of the cover, put it in place and latch the tabs. A continuous flashing indicator light may also indicate a malfunction in the air suspension system. See "Electronically Controlled Air Suspension System" under Loading Your Vehicle on page 4-43 for more information. Changing a Flat Tire If a tire goes flat, avoid further tire and wheel damage by driving slowly to a level place. Turn on your hazard warning flashers. CAUTION: Changing a tire can be dangerous. The vehicle can slip off the jack and roll over or fall on you or other people. When you have a flat tire, use the following example as a guide to assist you in the placement of wheel blocks. The following information will tell you how to use the jack and change a tire. Removing the Spare Tire and Tools The jacking equipment you will need is stored under the rear seat (Envoy/Envoy Denali) or in the left rear quarter panel storage compartment... Page 400 Envoy XL/Envoy XL Denali To release the jack from its holder, turn the knob on the jack counterclockwise to lower the jack head. See Rear Seat Operation on page 1-9 for more information. 5-68 The tools you will be using include the wheel wrench (A), wheel blocks (B), extension(s) (socket end) (C), handle (jack end) (D), and jack (E). Page 401 1. Insert the socket end of the extension on a 45 degree angle downward into the hoist drive shaft hole. It is exposed when the rear gate is open and is just above the rear bumper. Be sure the socket end of the extension connects to the hoist shaft. Removing the Flat Tire and Installing the Spare Tire 1. Using the wheel wrench, loosen all the wheel nuts. Do not remove them yet. 2. Turn the jack adjusting knob clockwise by hand to raise the jack lift head. 3. Place the handle, extension and wheel wrench onto the jack. Page 403 CAUTION: Getting under a vehicle when it is jacked up is dangerous. If the vehicle slips off the jack you could be badly injured or killed. Never get under a vehicle when it is supported only by a jack. CAUTION: Raising your vehicle with the jack improperly positioned can damage the vehicle and even make the vehicle fall. Page 404 6. 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. Page 405 9. Put the nuts on by hand. Make sure the rounded end is toward the wheel. 10. Tighten each nut by hand until the wheel is held against the hub. If a nut can't be turned by hand, use the wheel wrench and see your dealer as soon as possible. Page 406 CAUTION: Incorrect wheel nuts or improperly tightened wheel nuts can cause the wheel to come loose and even come off. This could lead to an accident. Be sure to use the correct wheel nuts. If you have to replace them, be sure to get new GM original equipment wheel nuts. Secondary Latch System Your vehicle has an underbody-mounted tire hoist assembly equipped with a secondary latch system. It is designed to stop the spare tire from suddenly falling off your vehicle if the cable holding the spare tire is damaged. For the secondary latch to work, the tire must be stored with the valve stem pointing up. Page 408 To release the spare tire from the secondary latch, do the following: 1. Check under the vehicle to see if the cable is visible. If it is not visible, proceed to Step 6. 2. If visible, first try to tighten the cable by turning the wheel wrench clockwise until you hear two clicks or feel it skip twice. Page 409 9. Lower the jack by turning the wheel wrench counterclockwise. Keep lowering the jack until the spare tire slides off the jack or is hanging by the cable. 10. Disconnect the jack handle from the jack and carefully remove the jack. Use one hand to push against the spare while firmly pulling the jack out from under the spare tire with the other hand. Storing a Flat or Spare Tire and Tools CAUTION: Storing a jack, a tire, or other equipment in the passenger compartment of the vehicle could cause injury. In a sudden stop or collision, loose equipment could strike someone. Store all these in the proper place. 5-78 CAUTION: The underbody-mounted spare tire needs to be... Page 411 Follow this diagram to store the underbody-mounted spare. A. Wheel Wrench B. Hoist Shaft C. Extension(s) D. Retainer E. Spare or Flat Tire (Valve Stem Pointed Up) 1. Put the tire on the ground at the rear of the vehicle, with the valve stem pointed up and to the rear. Page 412 6. Return the equipment to the proper location in the vehicle as shown next. Attach the tools in the slots provided. Roll up the instruction label and return it to the slot in the tool kit. Assemble the wheel blocks to the jack. For the Envoy XL, place the jack and wheel blocks in the wire bale. Spare Tire Your vehicle, when new, had a fully-inflated spare tire. A spare tire may lose air over time, so check its inflation pressure regularly. See Inflation - Tire Pressure on page 5-56 and Loading Your Vehicle on page 4-43 for information regarding proper tire inflation and loading your vehicle. Cleaning the Inside of Your Vehicle Your vehicle's interior will continue to look its best if it is cleaned often. Although not always visible, dust and dirt can accumulate on your upholstery. Dirt can damage carpet, fabric, leather, and plastic surfaces. Do not clean your vehicle using the following cleaners or techniques: • Never use a knife or any other sharp object to remove a soil from any interior surface. • Never use a stiff brush. It can cause damage to your vehicle's interior surfaces. If any of the soil remains, a commercial fabric cleaner or spot lifter may be necessary. When a commercial upholstery cleaner or spot lifter is to be used, test a small hidden area for colorfastness first. If the locally cleaned area gives any impression that a ring formation may result, clean the entire surface. 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. Finish Care Occasional waxing or mild polishing of your vehicle by hand may be necessary to remove residue from the paint finish. You can get GM-approved cleaning products from your dealer. See Vehicle Care/Appearance Materials on page 5-89. If your vehicle has a "basecoat/clearcoat" paint finish, the clearcoat gives more depth and gloss to the colored basecoat. Clean the outside of the windshield with a full-strength glass cleaning liquid. The windshield is clean if beads do not form when you rinse it with water. Grime from the windshield will stick to the wiper blades and affect their performance. Clean the blade by wiping vigorously with a cloth soaked in full-strength windshield washer solvent. Tires To clean the tires, use a stiff brush with tire cleaner. Notice: Using petroleum-based tire dressing products on your vehicle may damage the paint finish and/or tires. When applying a tire dressing, always wipe off any overspray from all painted surfaces on your vehicle. Vehicle Care/Appearance Materials Description Polishing Cloth Interior and exterior Wax-Treated polishing cloth. Tar and Road Oil Removes tar, road oil, Remover and asphalt. Chrome Cleaner and Use on chrome or Polish stainless steel. White Sidewall Tire Removes soil and black Cleaner marks from whitewalls. Vehicle Identification Vehicle Identification Number (VIN) This is the legal identifier for your vehicle. It appears on a plate in the front corner of the instrument panel, on the driver's side. You can see it if you look through the windshield from outside your vehicle. Electrical System Add-On Electrical Equipment Notice: Don't add anything electrical to your vehicle unless you check with your dealer first. Some electrical equipment can damage your vehicle and the damage wouldn't be covered by your warranty. Some add-on electrical equipment can keep other components from working as they should. Engine Compartment Fuse Block 5-92 The fuse block is located under the hood in the engine compartment on the driver's side of the vehicle. See Engine Compartment Overview on page 5-12 for more information on location. Remove the primary cover by pressing the two locking tabs. Page 425 Fuses Usage Electrically-Controlled Air Suspension Passenger's Side High-Beam Headlamp L6 Engine Fuses Passenger's Side Low-Beam Headlamp Back-Up Trailer Lamps Usage 5-93... Page 426 Fuses Driver's Side High-Beam Headlamp Driver's Side Low-Beam Headlamp Rear Window Washer, Headlamp Washer Active Transfer Case Windshield Washer Powertrain Control Module B Fog Lamps Stoplamp Cigarette Lighter Ignition Coils Electric Adjustable Pedals Truck Body Controller, Ignition 1 Crank Airbag Trailer Electric Brake Cooling Fan Horn... Page 427 Fuses Usage Headlamp Driver Module Air Injection Reactor (AIR) Solenoid Air Injection Reactor (AIR) Pump Relay Usage Headlamp Washer Rear Window Washer Fog Lamps Horn Fuel Pump Windshield Washer Relay Usage High-Beam Headlamp Air Conditioning Cooling Fan Headlamp Driver Module Starter Electric Adjustable Pedal Air Injection Reactor (AIR) Page 428 Fuses Electrically-Controlled Air Suspension Passenger's Side High-Beam Headlamp 5-96 V8 Engine Usage Fuses Usage Passenger's Side Low-Beam Headlamp Back-Up Trailer Lamps... Page 429 Fuses Usage Driver's Side High-Beam Headlamp Driver's Side Low-Beam Headlamp Rear Window Washer, Headlamp Washer Active Transfer Case Windshield Washer Powertrain Control Module B Fog Lamps Stoplamp Cigarette Lighter Ignition Coils Canister Vent Truck Body Controller, Ignition 1 Crank Airbag Trailer Electric Brake Cooling Fan Horn... Fuses Headlamp Driver Module Truck Body Controller 1 Electric Adjustable Pedal Relay Headlamp Washer Rear Window Washer Fog Lamps Horn Fuel Pump Windshield Washer High-Beam Headlamp Air Conditioning Cooling Fan Headlamp Driver Module Starter Electric Adjustable Pedal Powertrain Miscellaneous Instrument Panel Battery 5-98 Rear Underseat Fuse Block Usage... Page 431 Envoy Fuses Usage Right Door Control Module Left Door Control Module Liftgate Module 2 Truck Body Controller 3 Rear Fog Lamps Blank Truck Body Controller 2 Power Seats Rear Wiper Driver Door Module Amplifier Passenger Door Module Rear Climate Controls Left Rear Parking Lamps Blank Vehicle Center High-Mounted... Page 432 Fuses Unlock Blank Blank ® OnStar Overhead Battery/OnStar Sunroof Rainsense™ Wipers Parking Lamps Truck Body Controller Accessory Truck Body Controller 5 Front Wipers Vehicle Stop Transmission Control Module Heat Ventilation Air Conditioning B Front Parking Lamps Left Turn Signal Heat Ventilation Air Conditioning 1 Truck Body Controller 4 Radio... Page 433 Envoy XL Fuses Usage Right Door Control Module Left Door Control Module Liftgate Module 2 Truck Body Controller 3 Rear Fog Lamps Blank Truck Body Controller 2 Power Seats Rear Wiper Driver Door Module Amplifier Passenger Door Module Rear Climate Controls Left Rear Parking Lamps Blank Vehicle Center High-Mounted... Page 434 Fuses Retained Accessory Power Blank Unlock Blank Blank ® OnStar Overhead Battery/OnStar Sunroof Rainsense™ Wipers Parking Lamps Truck Body Controller Accessory Truck Body Controller 5 Front Wipers Vehicle Stop Transmission Control Module Heat Ventilation Air Conditioning B Front Parking Lamps Left Turn Signal Heat Ventilation Air Conditioning 1... Capacities and Specifications The following approximate capacities are given in English and metric conversions. See Recommended Fluids and Lubricants on page 6-12 for more information. Application Air Conditioning Refrigerant R134a Standard Wheel Base Extended Wheel Base Cooling System 4200 L6 Standard Wheel Base 4200 L6 Extended Wheel Base 5300 V8 Standard Wheel Base 5300 V8 Extended Wheel Base... Page 436 Application Engine Oil with Filter 4200 L6 5300 V8 Fuel Tank Standard Wheel Base Extended Wheel Base Transmission (Drain and Refill) Wheel Nut Torque All capacities are approximate. When adding, be sure to fill to the appropriate level, as recommended in this manual. Page 437 Section 6 Maintenance Schedule ...6-2 Introduction ...6-2 Maintenance Requirements ...6-2 Your Vehicle and the Environment ...6-2 Using the Maintenance Schedule ...6-3 Scheduled Maintenance ...6-4 Additional Required Services ...6-6 Maintenance Footnotes ...6-7 Maintenance Schedule Owner Checks and Services ...6-8 At Each Fuel Fill ...6-8 At Least Once a Month ...6-9 At Least Once a Year ...6-9 Recommended Fluids and Lubricants ...6-12... Maintenance Schedule Introduction Important: Keep engine oil at the proper level and change as recommended. Have you purchased the GM Protection Plan? The Plan supplements your new vehicle warranties. See your Warranty and Owner Assistance booklet or your dealer for details. Maintenance Requirements Notice: Maintenance intervals, checks, inspections, replacement parts, and recommended fluids and... Using the Maintenance Schedule We at General Motors want to help you keep your vehicle in good working condition. But we do not know exactly how you will 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. Owner Checks and Services on page 6-8 tells you what should be checked, when to check it and what you can easily do to help keep your vehicle in good condition. The proper replacement parts, fluids and lubricants to use are listed in Recommended Fluids and Lubricants on page 6-12 and Normal Maintenance Replacement Parts on page 6-14. Page 441 Scheduled Maintenance Service Maintenance I Maintenance II Change engine oil and filter. See Engine Oil on page 5-15. Reset oil life system. See Engine Oil Life System on page 5-18. An Emission Control Service. Visually check for any leaks or damage. See footnote (j). Inspect engine air cleaner filter. Additional Required Services The following services should be performed at the first maintenance service (I or II) after the indicated miles (kilometers) shown for each item. Service and Miles (Kilometers) Inspect fuel system for damage or leaks. Inspect exhaust system for loose or damaged components. Maintenance Footnotes (a) Visually inspect brake lines and hoses for proper hook-up, binding, leaks, cracks, chafing, etc. Inspect disc brake pads for wear and rotors for surface condition. Inspect other brake parts, including calipers, parking brake, etc. (b) Visually inspect front and rear suspension and steering system for damaged, loose, or missing parts or signs of wear. (i) Drain, flush, and refill cooling system. This service can be complex; you should have your dealer perform this service. See Engine Coolant on page 5-23 for what to use. Inspect hoses. Clean radiator, condenser, pressure cap, and filler neck. Pressure test the cooling system and pressure cap. At Least Once a Month Tire Inflation Check Visually inspect your vehicle's tires and make sure they are inflated to the correct pressures. Do not forget to check the spare tire. See Tires on page 5-50 for further details. Check to make sure the spare tire is stored securely. Page 446 Automatic Transmission Shift Lock Control System Check CAUTION: When you are doing this inspection, the vehicle could move suddenly. If the vehicle moves, you or others could be injured. 1. Before you start, be sure you have enough room around the vehicle. It should be parked on a level surface. Page 447 Parking Brake and Automatic Transmission Park (P) Mechanism Check CAUTION: When you are doing this check, your vehicle could begin to move. You or others could be injured and property could be damaged. Make sure there is room in front of your vehicle in case it begins to roll. Recommended Fluids and Lubricants Fluids and lubricants identified below by name, part number or specification may be obtained from your dealer. Usage Fluid/Lubricant Engine oil which meets GM Standard GM6094M and displays the American Petroleum Institute Certified for Gasoline Engines starburst symbol. Engine Oil GM Goodwrench the requirements for your vehicle. Page 449 Usage Fluid/Lubricant AUTO-TRAK II Fluid Transfer Case (GM Part No. U.S. 12378508, in Canada 10953626). Chassis Lubricant Rear Driveline (GM Part No. U.S. 12377985, in Center Spline Canada 88901242) or lubricant and Universal meeting requirements of NLGI #2, Joints Category LB or GC-LB. Chassis Lubricant Constant (GM Part No. Normal Maintenance Replacement Parts Replacement parts identified below by name, part number, or specification can be obtained from your dealer. Part Automatic Transmission Filter Kit Engine Air Cleaner/Filter Engine Oil Filter 4200 L6 5300 V8 Fuel Filter Spark Plugs 4200 L6 5300 V8 Wiper Blades Front —... Maintenance Record After the scheduled services are performed, record the date, odometer reading, who performed the service and the type of services performed in the boxes provided. See Maintenance Requirements on page 6-2. Any additional information from Owner Checks and Services on page 6-8 can be added on the following record pages. Page 452 Maintenance Record (cont'd) Odometer Maintenance I or Date Serviced By Services Performed Reading Maintenance II 6-16... Page 453 Maintenance Record (cont'd) Odometer Maintenance I or Date Serviced By Services Performed Reading Maintenance II 6-17... Page 454 Maintenance Record (cont'd) Odometer Maintenance I or Date Serviced By Services Performed Reading Maintenance II 6-18... Section 7 Customer Assistance and Information ...7-2 Customer Satisfaction Procedure ...7-2 Online Owner Center ...7-3 Customer Assistance for Text Telephone (TTY) Users ...7-4 Customer Assistance Offices ...7-4 GM Mobility Reimbursement Program ...7-5 Roadside Assistance Program ...7-5 Courtesy Transportation ...7-7 Vehicle Data Collection and Event Data Recorders ...7-9 Customer Assistance and Information Reporting Safety Defects ...7-10... Information Customer Satisfaction Procedure Your satisfaction and goodwill are important to your dealer and to GMC. Normally, any concerns with the sales transaction or the operation of the vehicle will be resolved by your dealer's sales or service departments. Sometimes, however, despite the best intentions of all concerned, misunderstandings can occur. The BBB Auto Line Program is an out of court program administered by the Council of Better Business Bureaus to settle automotive disputes regarding vehicle repairs or the interpretation of the New Vehicle Limited Warranty. Although you

may be required to resort to this informal dispute resolution program prior to filling out a court action, use of the program is free of charge and your case will generally be heard within... Telephone (TTY) Users To assist customers who are deaf, hard of hearing, or speech-impaired and who use the Text Telephones (TTYs), GMC has TTY equipment available at its Customer Assistance Center. Any TTY user can communicate with GMC by dialing: 1-800-GMC-8583 (462-8583). 1-800-GM-DRIVE (463-7483) for details. TTY users call 1-800-263-3830. Roadside Assistance Program As the owner of a new GMC vehicle, you are automatically enrolled in the GMC Roadside Assistance program. This value-added service is intended to provide you with peace of mind as you drive in the city or travel the open road. Page 460 Remember, we are only a phone call away. GMC Roadside Assistance: 1-800-462-8782, text telephone (TTY) users, call 1-888-889-2438. GMC reserves the right to limit services or reimbursement to an owner or driver when, in GMC's judgement, the claims become excessive in frequency or type of occurrence. Roadside Assistance is not part of or included in the coverage provided by the New Vehicle Limited Warranty. GMC reserves the right to make any changes or discontinue the Roadside Assistance program at any time without notification. Canadian Roadside Assistance... Transportation Options Warranty service can generally be completed while you wait. However, if you are unable to wait, GM helps to minimize your inconvenience by providing several transportation options. Depending on the circumstances, your dealer can offer you one of the following: Shuttle Service Participating dealers can provide you with shuttle service to get you to your destination with minimal... Courtesy Transportation is available only at participating dealers and all program options, such as shuttle service, may not be available at every dealer. Please contact your dealer for specific information about availability. All Courtesy Transportation arrangements will be administered by appropriate dealer personnel. Canadian Vehicles: For warranty repairs during the Complete Vehicle Coverage period of the General Motors of Canada New Vehicle Limited Warranty,... To read this information, special equipment is needed and access to the vehicle or the device that stores the data is required. GM will not access information about a crash event or share it with others other than: • with the consent of the vehicle owner or, if the vehicle is leased, with the consent of the lessee, •... Reporting Safety Defects to General Motors In addition to notifying NHTSA (or Transport Canada) in a situation like this, we certainly hope you'll notify us. Please call us at 1-800-GMC-8782 (1-800-462-8782), or write: GMC Customer Assistance Center P.O. Box 33172... Owner's Information Owner publications are written specifically for owners and intended to provide basic operational information about the vehicle. The owner's manual will include the Maintenance Schedule for all models. In-Portfolio: Includes a Portfolio, Owner's Manual, and Warranty Booklet. RETAIL SELL PRICE: $35.00 Without Portfolio: Owner's Manual only. Page 467 Accessory Inflator ... 5-64 Accessory Power Outlets ... 3-19 Adding a Snow Plow or Similar Equipment ... 4-50 Adding Equipment to Your Airbag-Equipped Vehicle ... 1-66 Additives, Fuel ... 5-6 Add-On Electrical Equipment ... 5-91 Adjustable Throttle and Brake Pedal ... 2-22 Air Cleaner/Filter, Engine ... Page 468 Audio System(s) (cont.) Fixed Mast Antenna ... 3-129 Navigation/Radio System, see Navigation Manual ... 3-113 Radio with Cassette and CD ... 3-87 Radio with CD ... 3-63, 3-73 Radio with Six-Disc CD ... 3-100 Rear Seat Audio (RSA) ... 3-124 Setting the Time ... 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