DAKOTA

2011

OWNER'S MANUAL

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INTRODUCTION

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INTRODUCTION

Congratulations on selecting your new Chrysler Group LLC vehicle. Be assured that it represents precision workmanship, distinctive styling, and high quality - all essentials that are traditional to our vehicles.

This Owner's Manual has been prepared with the assistance of service and engineering specialists to acquaint you with the operation and maintenance of your vehicle. It is supplemented by a Warranty Information Booklet, located on the DVD, and various customer-oriented documents. Please take the time to read these publications carefully. Following the instructions and recommendations in this manual will help assure safe and enjoyable operation of your vehicle.

NOTE: After you read the manual, it should be stored in the vehicle for convenient referencing and remain with the vehicle when sold, so that the new owner will be aware of all safety warnings.

When it comes to service, remember that your authorized dealer knows your vehicle best, has factory-trained technicians and genuine MOPAR® parts, and cares about your satisfaction.

HOW TO USE THIS MANUAL

Consult the Table of Contents to determine which section contains the information you desire.

Since the specification of your vehicle depends on the items of equipment ordered, certain descriptions and illustrations may differ from your vehicle's equipment

The detailed index at the back of this Owner's Manual contains a complete listing of all subjects.

Consult the following table for a description of the symbols that may be used on your vehicle or throughout this Owner's Manual:

WATER IN FUEL
REAR WINDOW WIPER
WINDSHIELD WIPER INTERMITTENT
EXTERIOR BULB FAILURE
HIGH BEAM
TURN SIGNALS
UPPER AIR OUTLET
HEATED SEAT LOW
DOOR LOCK
ADJUSTABLE PEDALS
ELECTRONIC SPEED CONTROL
ESP BAS
ELECTRONIC STABILITY PROGRAM / BRAKE ASSIST SYSTEM
FUEL
REAR WINDOW INTERMITTENT WIPER
WINDSHIELD WASHER
MASTER LIGHTING SWITCH
LOW BEAM
KEY ACTIVATE (POWER OUTLET)
UPPER AND LOWER AIR OUTLET
HEATED SEAT HIGH
WINDOW LIFT
TIRE PRESSURE MONITOR
HILL DESCENT CONTROL
BRAKE
BRAKE SYSTEM WARNING PARKING BRAKE
FUEL FILL SIDE
REAR WINDOW WASHER
WINDSHIELD WASHER FLUID LEVEL
DOME LIGHT
FRONT FOG LIGHT
HOOD RELEASE
LOWER AIR OUTLET
RECIRCULATION
CONVERTIBLE 4 WINDOW DOWN
ELECTRONIC STABILITY CONTROL
AWD!
ALL WHEEL DRIVE
ABS
FAILURE OF ANTI-LOCK BRAKING SYSTEM
ENGINE OIL
REAR WINDOW DEFROST
WINDSHIELD, ELECTRICALLY HEATED
PARK LIGHTS
REAR FOG LAMP
LIFTGATE RELEASE AND LIFTGATE OPEN
DEFROST AND LOWER AIR OUTLET
VENTILATING FAN
WINDOW LOCK
ELECTRONIC THROTTLE CONTROL
4WD!
FOUR WHEEL DRIVE
BRAKE
BRAKE SYSTEM WARNING PARKING BRAKE
BATTERY CHARGING
HEATED MIRROR
WINDSHIELD DEFROST
INSTRUMENT PANEL ILLUMINATION
SEAT BELT
SLIDING DOOR
TRUNK / DECK RELEASE
AIR CONDITIONING
CHILD SEAT TETHER ANCHOR
VOICE RECOGNITION BUTTON
WARNING
TOW/ HAUL
TOW / HAUL
GLOW PLUG
POWER STEERING FLUID
WINDSHIELD WIPER AND WASHER
SIDE AIRBAG
AIRBAG
SLIDING DOOR
EMERGENCY RELEASE HANDLE
LIGHTER
LOWER ANCHORS AND TETHER FOR CHILDREN (LATCH)
UCONNECT™ BUTTON
HAZARD
4 LOW
FOUR WHEEL DRIVE LOW
MALFUNCTION INDICATOR LIGHT
TRANS OIL TEMP
ENGINE COOLANT TEMPERATURE
SRS AIRBAG
SUPPLEMENTAL RESTRAINT SYSTEM
PASSENGER AIRBAG OFF
DOOR AJAR
CONVERTIBLE TOP DOWN
CONVERTIBLE TOP UP
HORN
SEE OWNER'S MANUAL ISO
A/C PUSH
AIR CONDITIONER
OFF
ELECTRONIC STABILITY CONTROL OFF
010533317

WARNINGS AND CAUTIONS

This Owner's Manual contains **WARNINGS** against operating procedures that could result in a collision or bodily injury. It also contains **CAUTIONS** against procedures that could result in damage to your vehicle. If you do not read this entire manual, you may miss important information. Observe all Warnings and Cautions.

VEHICLE IDENTIFICATION NUMBER

The Vehicle Identification Number (VIN) is located on the left front corner of the instrument panel pad, visible from outside of the vehicle through the windshield. This number also appears on the Automobile Information Disclosure Label affixed to a window on your vehicle. Save this label for a convenient record of your vehicle identification number and optional equipment.

NOTE: It is illegal to remove or alter the VIN.

VIN Location

VEHICLE MODIFICATIONS/ALTERATIONS

WARNING!

Any modifications or alterations to this vehicle could seriously affect its roadworthiness and safety and may lead to a collision resulting in serious injury or death.

THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

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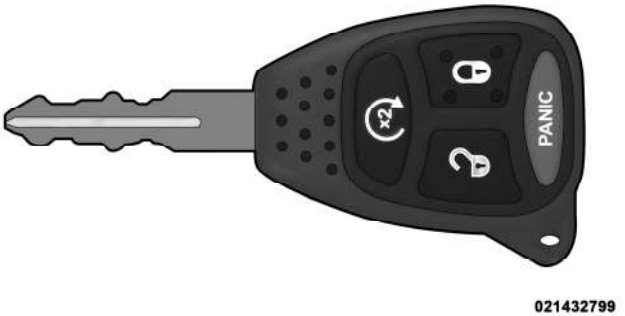
A WORD ABOUT YOUR KEYS

The authorized dealer that sold you your vehicle has the key code numbers for your vehicle locks. These numbers can be used to order duplicate keys from your authorized dealer. Ask your authorized dealer for these numbers and keep them in a safe place.

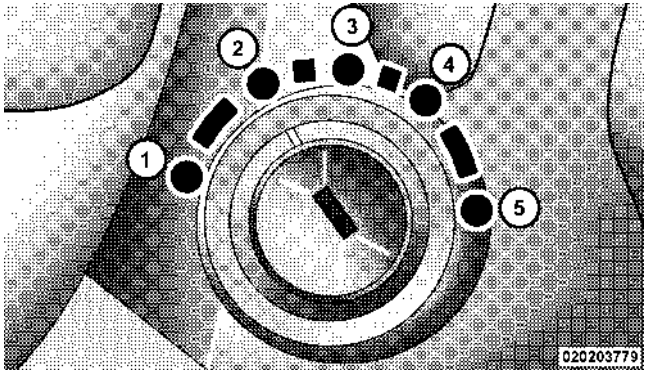


Ignition Key

Ignition Key Removal

Automatic Transmission

1. Place the shift lever in PARK.
2. Turn the ignition switch to the LOCK position.
3. Remove the key from the ignition lock cylinder.



Ignition Switch Positions

1 — ACC
2 — LOCK
3 — OFF
4 — ON/RUN
5 — START

NOTE: If you try to remove the key before you place the shift lever in PARK, the key may become temporarily trapped in the ignition cylinder. If this occurs, rotate the key to the right slightly, then remove the key as described. If a malfunction occurs, the system will trap the key in the ignition cylinder to warn you that this safety feature is inoperable. The engine can be started and stopped, but the key cannot be removed until you obtain service.

WARNING!

- **Never leave children alone in a vehicle. Leaving unattended children in a vehicle is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Don't leave the keys in the ignition. A child could operate power windows, other controls, or move the vehicle.**
- **Do not leave children or animals inside parked vehicles in hot weather. Interior heat build-up may cause serious injury or death.**

CAUTION!

An unlocked car is an invitation to thieves. Always remove the key from the ignition and lock all the doors when leaving the vehicle unattended.

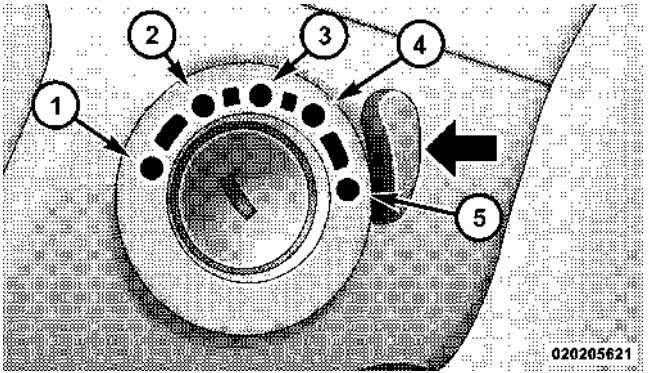
Manual Transmission — If Equipped

When the steering wheel is in the LOCK position, the steering and ignition systems are locked to provide antitheft protection for your vehicle. It may be difficult to turn the key from the LOCK position when starting your vehicle. Move the steering wheel left and right while turning the key until it turns easily. To remove the key:

1. Press and hold the release button located between the ignition switch and the instrument panel.

2. Turn the ignition switch to the LOCK position.

3. Remove the key from the ignition lock cylinder.



Ignition Release Button

1 — ACC
2 — LOCK
3 — OFF
4 — ON/RUN
5 — START

Locking Doors With A Key

You can insert the key into the door lock cylinder with either side up. To lock the driver's door, turn the key rearward. To unlock the driver's door, turn the key forward. For external door lock lubrication, refer to "Maintenance Procedures" in "Maintaining Your Vehicle".

STEERING WHEEL LOCK — IF EQUIPPED

Your vehicle may be equipped with a passive steering wheel lock. This lock prevents steering the vehicle without the ignition key. If the steering wheel is moved approximately a half turn in either direction, and the key is not in the ignition switch, the steering wheel will lock.

To Manually Lock the Steering Wheel

With the engine running, rotate the steering wheel one-half revolution, turn off the engine and remove the key. Turn the steering wheel slightly in either direction until the lock engages.

To Release the Steering Wheel Lock

Insert the key in the ignition switch and start the engine. If the key is difficult to turn, move the wheel slightly to the right or left to disengage the lock.

NOTE: If you turned the wheel to the right to engage the lock, you must turn the wheel slightly to the right to disengage it. If you turned the wheel to the left to engage the lock, turn the wheel slightly to the left to disengage it.

Automatic Transmission Ignition Interlock System

This system prevents the key from being removed unless the shift lever is in PARK. It also prevents shifting out of PARK unless the key is in the ACC, or ON/RUN position, and the brake pedal is pressed.

SENTRY KEY® — IF EQUIPPED

The Sentry Key® prevents unauthorized vehicle operation by disabling the engine. The system does not need to be armed or activated. Operation is automatic, regardless of whether the vehicle is locked or unlocked.

The system uses ignition keys that have an embedded electronic chip (transponder) to prevent unauthorized vehicle operation. Therefore, only keys that are programmed to the vehicle can be used to start and operate the vehicle. The system will shut the engine off in two seconds if someone uses an invalid key to try to start the engine.

NOTE: A key that has not been programmed is also considered an invalid key, even if it is cut to fit the ignition switch lock cylinder for that vehicle.

During normal operation, after turning on the ignition switch, the Vehicle Security Light will turn on for three seconds for a bulb check. If the light remains on after the bulb check, it indicates that there is a problem with the electronics. In addition, if the light begins to flash after the bulb check, it indicates that someone used an invalid key to try to start the engine. Either of these conditions will result in the engine being shut off after two seconds.

If the Vehicle Security Light turns on during normal vehicle operation (vehicle running for longer than 10 seconds), it indicates that there is a fault in the electronics. Should this occur, have the vehicle serviced as soon as possible by an authorized dealer.

CAUTION!

The Sentry Key® Immobilizer system is not compatible with some after-market remote starting systems. Use of these systems may result in vehicle starting problems and loss of security protection.

All of the keys provided with your new vehicle have been programmed to the vehicle electronics.

Replacement Keys

NOTE: Only keys that are programmed to the vehicle electronics can be used to start and operate the vehicle. Once a Sentry Key® is programmed to a vehicle, it cannot be programmed to any other vehicle.

CAUTION!

Always remove the Sentry Keys® from the vehicle and lock all doors when leaving the vehicle unattended.

At the time of purchase, the original owner is provided with a four-digit Personal Identification Number (PIN). Keep the PIN in a secure location. This number is required for authorized dealer replacement of keys. Duplication of keys may be performed at an authorized dealer or by following the customer key programming procedure. This procedure consists of programming a blank key to the vehicle electronics. A blank key is one that has never been programmed.

NOTE: When having the Sentry Key® Immobilizer System serviced, bring all vehicle keys with you to an authorized dealer.

Customer Key Programming

If you have two valid Sentry Keys®, you can program new Sentry Keys® to the system by performing the following steps:

1. Cut the additional Sentry Key® Transponder blank(s) to match the ignition switch lock cylinder key code.

2. Insert the first valid key into the ignition switch. Turn the ignition switch to the ON/RUN position for at least three seconds, but no longer than 15 seconds. Then, turn the ignition switch to the LOCK position and remove the first key.

3. Insert the second valid key into the ignition switch. Turn the ignition switch to the ON/RUN position within 15 seconds. After 10 seconds, a chime will sound. In addition, the Vehicle Security Light will begin to flash. Turn the ignition switch to the LOCK position and remove the second key.

4. Insert a blank Sentry Key® into the ignition switch. Turn the ignition switch to the ON/RUN position within 60 seconds. After 10 seconds, a single chime will sound. In addition, the Vehicle Security Light will stop flashing. To indicate that programming is complete, the Vehicle Security Light will turn on again for three seconds and then turn off.

The new Sentry Key® is programmed. **The Remote Keyless Entry (RKE) transmitter will also be programmed during this procedure.**

Repeat this procedure to program up to eight keys. If you do not have a programmed Sentry Key®, contact your authorized dealer for details.

NOTE: If a programmed key is lost, see your authorized dealer to have all remaining keys erased from the system's memory. This will prevent the lost key from starting your vehicle. The remaining keys must then be reprogrammed. All vehicle keys must be taken to an authorized dealer at the time of service to be reprogrammed.

VEHICLE SECURITY ALARM — IF EQUIPPED

The Vehicle Security Alarm monitors the vehicle doors and ignition for unauthorized operation. When the Vehicle Security Alarm is activated it will provide both audible and visible signals. The horn will sound repeatedly for the three minutes and the headlights, park lamps and/or turn signals and Vehicle Security Light will flash for an additional 15 minutes.

To Arm the System

The Vehicle Security Alarm will set when you use the power door locks, or use the Remote Keyless Entry (RKE) transmitter to lock the doors. After all the doors are locked and closed, the Vehicle Security Light in the instrument cluster will flash rapidly for approximately 15 seconds to signal that the Vehicle Security Alarm is arming. After the Vehicle Security Alarm is set, the Vehicle Security Light will flash at a slower rate to indicate that the Vehicle Security Alarm is armed.

NOTE: If the Vehicle Security Light stays on continuously during vehicle operation, have the Vehicle Security Alarm checked by an authorized dealer.

To Disarm the System

Use the RKE transmitter to unlock the door. If something has triggered the Vehicle Security Alarm in your absence, the horn will sound three times when you unlock the doors. Check the vehicle for tampering.

The Vehicle Security Alarm will also disarm if the vehicle Sentry Key® in inserted into the ignition and turned to ON/RUN. If an unprogrammed Sentry Key® is used to start a vehicle, the engine will run for two seconds and then shut down. After six unsuccessful attempts at starting the engine, the Vehicle Security Alarm will shut down until the correct key is used. To exit alarming mode, press the RKE transmitter UNLOCK button or start the vehicle with a programmed Sentry Key®.

The Vehicle Security Alarm is designed to protect your vehicle; however, you can create conditions where the Vehicle Security Alarm will arm unexpectedly. If you remain in the vehicle and lock the doors with the RKE transmitter, the alarm will sound when you pull the door handle to exit.

NOTE: You may accidentally activate the Vehicle Security Alarm (horn sounds and lights flash) by entering the vehicle without using the RKE transmitter to unlock the door(s). The Vehicle Security Alarm can be disarmed with the RKE transmitter unlock button or by inserting a programmed Sentry Key® into the ignition and turning the key to the ON/RUN position.

ILLUMINATED ENTRY

Vehicles Equipped With Power Door Locks

All interior lights will illuminate in the vehicle when the doors are unlocked using the Remote Keyless Entry (RKE) transmitter.

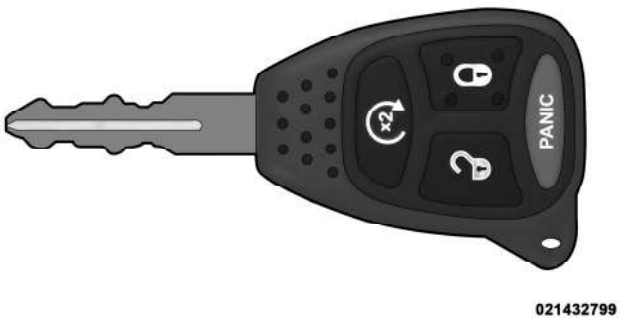
The interior lights will remain on for 30 seconds after the last door is closed, or until all doors are closed and either the ignition is turned to the ON/RUN position or a RKE transmitter LOCK button is pressed.

There is also a battery saver feature that will turn the interior lights off after eight minutes if the ignition is OFF and a door is left open or the dimmer control is in the interior lights ON position.

NOTE: None of the courtesy lights will operate if the dimmer control is in the “defeat” position (extreme downward position), unless the overhead map/reading lights are turned on manually.

REMOTE KEYLESS ENTRY (RKE)

This system allows you to lock or unlock the doors or activate the Panic Alarm from distances up to approximately 66 ft (20 m) using a Remote Keyless Entry (RKE) transmitter. The RKE transmitter does not need to be pointed at the vehicle to activate the system.



Remote Keyless Entry (RKE) Transmitter

NOTE: The line of transmission must not be blocked with metal objects.

To Unlock The Doors

Press and release the UNLOCK button on the RKE transmitter once to unlock only the driver's door or twice to unlock all the doors. When the unlock button is pressed, the illuminated entry will initiate, and the parking lights will flash twice.

The system can be programmed to unlock all the doors upon the first unlock button press by using the following procedure:

1. Press and hold the LOCK button on a programmed RKE transmitter.

2. Continue to hold the LOCK button for at least 4 seconds, but not longer than 10 seconds, then press and hold the UNLOCK button. A single chime will sound to indicate that this feature has changed.

3. Release both buttons at the same time.

4. Test the feature while outside of the vehicle by pressing the LOCK/UNLOCK button on the RKE transmitter.

NOTE: Pressing the LOCK button on the RKE transmitter while you are inside the vehicle will activate the Vehicle Security Alarm. Opening a door with the Vehicle Security Alarm System activated will cause the alarm to sound. Press the UNLOCK button to deactivate the Vehicle Security Alarm System.

5. If the desired programming was not achieved, or to reactivate this feature, repeat the above steps.

To Lock The Doors

Press and release the LOCK button on the RKE transmitter to lock all doors. If the ignition is OFF, when the doors are locked the parking lights will flash on once and the horn will chirp once.

Horn Chirp Programming

The horn chirp feature is shipped from the assembly plant activated. If desired, this feature can be disabled by using the following procedure:

1. Press and hold the LOCK button on the RKE transmitter.

2. Continue to hold the LOCK button for at least 4 seconds, but not longer than 10 seconds, then press and hold the PANIC button. A single chime will sound to indicate that this feature has changed.

3. Release both buttons at the same time.

4. To reactivate this feature, repeat the above steps.

5. Test the horn chirp feature while outside of the vehicle by pressing the LOCK button on the RKE transmitter with the ignition in the OFF position and the key removed.

NOTE: Pressing the LOCK button on the RKE transmitter while you are inside the vehicle will activate the Vehicle Security Alarm. Opening a door with the Vehicle Security Alarm activated will cause the alarm to sound. Press the UNLOCK button to deactivate the Vehicle Security Alarm System.

6. If the desired programming was not achieved, or to reactivate this feature, repeat the above steps.

Flash Lamps With Lock Programming

1. Press and hold the UNLOCK button on the RKE transmitter.

2. Continue to hold the UNLOCK button for at least 4 seconds, but not longer than 10 seconds, then press and hold the LOCK button. A single chime will sound to indicate that this feature has changed.

3. Release both buttons at the same time.

4. Test the Flash Lamps With Lock feature while outside of the vehicle by pressing the LOCK button on the RKE transmitter with the ignition in the OFF position and the key removed.

NOTE: Pressing the LOCK button on the RKE transmitter while you are in the vehicle will activate the Vehicle Security Alarm. Opening a door with the Vehicle Security Alarm activated will cause the alarm to sound. Press the UNLOCK button to deactivate the Vehicle Security Alarm System.

5. If the desired programming was not achieved, or to reactivate this feature, repeat the above steps.

Using The Panic Alarm

To activate the Panic mode while the ignition is OFF, press and release the PANIC button on the RKE transmitter once. When the Panic mode is activated, the interior lights will illuminate, the headlights and parking lights will flash, and the horn will sound.

To cancel the Panic mode, press and release the PANIC button on the RKE transmitter a second time. Panic mode will automatically cancel after three minutes, or if the vehicle is started and or exceeds 15 mph (24 km/h). During the Panic Mode, the door locks and RKE systems will function normally. Panic mode will not disarm the Vehicle Security Alarm System, on vehicles so equipped.

General Information

This device complies with part 15 of FCC rules and with RS-210 of Industry Canada. Operation is subject to the following conditions:

1. This device may not cause harmful interference.

2. This device must accept any interference that may be received including interference that may cause undesired operation.

NOTE: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

If your RKE transmitter fails to operate from a normal distance, check for these two conditions:

1. Weak battery in the RKE transmitter. The expected life of battery is five years.

2. Closeness to a radio transmitter such as a radio station tower, airport transmitter, military base, and some mobile or CB radios.

Programming Additional Transmitters

Refer to Sentry Key® "Customer Key Programming."

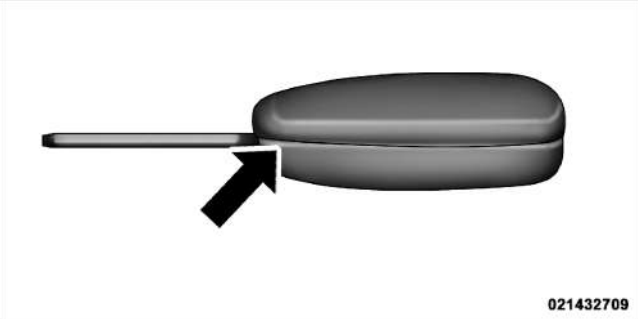
If you do not have a programmed RKE transmitter, contact your authorized dealer for details.

Battery Replacement

The recommended replacement battery is CR2032.

NOTE: Perchlorate Material – special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

1. If the RKE transmitter is equipped with a screw, remove the screw. With the RKE transmitter buttons facing down, use a flat blade to pry the two halves of the RKE transmitter apart. Make sure not to damage the elastomer seal during removal.



Separating RKE Transmitter Halves

2. Remove and replace the battery. When replacing the battery, match the + sign on battery to the + sign on the inside of the battery clip, located on the back cover. Avoid touching the new battery with your fingers. Skin oils may cause battery deterioration. If you touch a battery, clean it with rubbing alcohol.

3. To reassemble the RKE transmitter case, snap the two halves of the case together. Make sure there is an even "gap" between the two halves. If equipped, install and tighten the screw until snug. Test the RKE transmitter operation.

REMOTE STARTING SYSTEM — IF EQUIPPED

This system uses the Remote Keyless Entry (RKE) transmitter to start the engine conveniently from outside the vehicle while still maintaining security. The system has a range of approximately 300 ft (91 m).

NOTE: The vehicle must be equipped with an automatic transmission to be equipped with Remote Start.

How to Use Remote Start

All of the following conditions must be met before the engine will remote start:

- Shift lever in PARK
- Doors closed
- Hood closed
- Hazard switch off
- Brake switch inactive (brake pedal not pressed)
- Ignition key removed from ignition switch
- Battery at an acceptable charge level
- RKE PANIC button not pressed

WARNING!

- **Do not start or run an engine in a closed garage or confined area. Exhaust gas contains Carbon Monoxide (CO) which is odorless and colorless. Carbon Monoxide is poisonous and can cause serious injury or death when inhaled.**
- **Keep Remote Keyless Entry (RKE) transmitters away from children. Operation of the Remote Start System, windows, door locks or other controls could cause serious injury or death.**

To Enter Remote Start

Press and release the REMOTE START button on the RKE transmitter twice, within five seconds. The parking lights will flash and the horn will chirp twice (if programmed). Then, the engine will start and the vehicle will remain in the Remote Start mode for a 15-minute cycle.

NOTE:

- The park lamps will turn on and remain on during Remote Start mode.
- For security, power window and power sunroof operation (if equipped) are disabled when the vehicle is in the Remote Start mode.
- The engine can be started two consecutive times (two 15-minute cycles) with the RKE transmitter. However, the ignition switch must be cycled to the ON/RUN position before you can repeat the start sequence for a third cycle.

Remote start will also cancel if any of the following occur:

- The engine stalls or RPM exceeds 2500
- Any engine warning lamps come on
- The hood is opened
- The hazard switch is pressed
- The transmission is moved out of PARK
- The brake pedal is pressed

To Exit Remote Start Mode without Driving the Vehicle

Press and release the REMOTE START button one time, or allow the engine to run for the entire 15-minute cycle.

NOTE: To avoid unintentional shut downs, the system will disable the one time press of the REMOTE START button for two seconds after receiving a valid Remote Start request.

To Exit Remote Start Mode and Drive the Vehicle

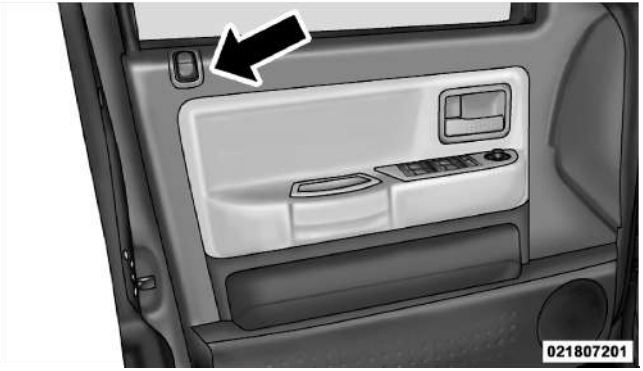
Before the end of the 15-minute cycle, press and release the UNLOCK button on the RKE transmitter to unlock the doors and disarm the Vehicle Security Alarm (if equipped). Then, prior to the end of the 15-minute cycle, insert the key into the ignition switch and turn the switch to the ON/RUN position.

NOTE: The ignition switch must be in the ON/RUN position in order to drive the vehicle.

DOOR LOCKS

Manual Door Locks

All the doors can be manually locked from the inside by pushing down the door lock knob, located on the door trim panel. Both front doors may be opened from the inside with the door lock knob in the down or locked position.



Manual Door Lock Knob

WARNING!

- **For personal security and safety in the event of an accident, lock the vehicle doors as you drive, as well as when you park and leave the vehicle.**
- **Never leave children alone in a vehicle. Leaving unattended children in a vehicle is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Don't leave the key in the ignition. A child could operate power windows, other controls, or move the vehicle.**

Power Door Locks

A power door lock switch is on each front door trim panel. Use this switch to lock or unlock the doors.

Power Door Lock Switch

If you press the power door LOCK switch while the key is in the ignition, and any front door is open, the power locks will not operate. This prevents you from accidentally locking your keys in the vehicle. Removing the key, or closing the door, will allow the locks to operate. A chime will sound if the key is in the ignition switch and the driver's door is open, as a reminder to remove the key.

Automatic Door Locks

If this feature is enabled, your door locks will lock automatically when the vehicle's speed exceeds 15 mph (24 km/h).

This feature is enabled when your vehicle is shipped from the assembly plant and can be disabled by using the following procedure:

1. Enter your vehicle and close all doors.

2. Fasten your seat belt. (Fastening the seat belt will cancel any chiming that may confuse you during this programming procedure.)

3. Place the key into the ignition.

4. Within 10 seconds, cycle the key from the LOCK position to the ON/RUN position and back to LOCK position, a minimum of four times; ending in the LOCK position. **(Do not start the engine.)**

5. Within 30 seconds, press the driver's door LOCK switch in the LOCK direction.

6. A single chime will be heard to indicate the feature has been disabled.

7. To reactivate this feature, repeat the above steps.

8. If a chime is not heard, program mode was canceled before the feature could be disabled. If necessary, repeat the above procedure.

Auto Unlock On Exit Feature — If Equipped
This feature unlocks all of the doors of the vehicle when any door is opened. This will occur only after the vehicle has been shifted into the PARK position after the vehicle has been driven (shifted out of PARK and the doors closed).

Auto Unlock Feature Programming
The Customer Programming sequence to disable or enable Auto Unlock:

1. Enter your vehicle and close all the doors.

2. Fasten your seat belt. (Fastening the seat belt will cancel any chiming that may be confusing during this programming procedure.)

3. Insert the key into the ignition.

4. Within 15 seconds, cycle the key from the LOCK position to the ON/RUN position and back to LOCK position, a minimum of four times; ending in the LOCK position. **(Do not start the engine.)**

5. Within 30 seconds, press the driver's door LOCK switch in the UNLOCK direction.

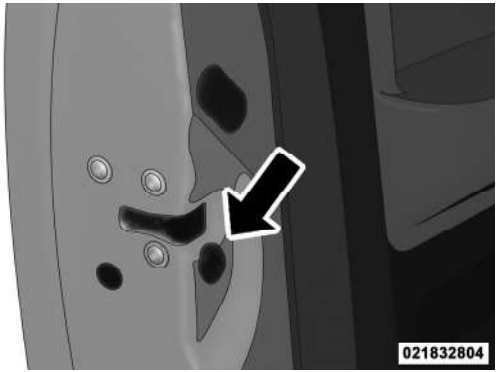
6. A single chime will sound to indicate the feature has been changed.

7. To reactivate the feature, repeat the above steps.

8. If a chime is not heard, program mode was canceled before the feature could be changed. If necessary, repeat the above procedure.

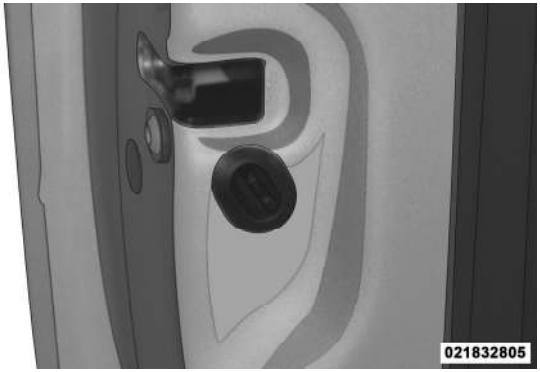
Child-Protection Door Lock

To provide a safer environment for children riding in the rear seat, the rear doors of your vehicle have the child-protection door lock system.



Child-Protection Door Lock Location

To use the system, open each rear door, slide the lever up to engage the locks, and down to disengage the child-protection locks. When the system on a door is engaged, that door can only be opened by using the outside door handle, even if the inside door lock is in the unlocked position.



Child Lock Control

WARNING!

Avoid trapping anyone in a vehicle in a collision. Remember that the rear doors can only be opened from the outside when the Child-Protection locks are engaged.

NOTE:

- After setting the Child-Protection Door Lock system, always test the door from the inside to make certain it is in the desired position.
- For emergency exit with the system engaged, move the door lock switch to the UNLOCK position, roll down the window and open the door with the outside door handle.

WINDOWS

Power Windows

The control on the left front door has up-down switches that give you finger-tip control of all the power windows. There is a single opening and closing switch on the passenger doors for passenger window control. The windows will operate when the ignition switch is turned to the ON/RUN or ACC position, and for ten minutes after the ignition is turned OFF unless the driver's door is opened.

Power Window Switch

WARNING!

Never leave children alone in a vehicle. Leaving unattended children in a vehicle is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Don't leave the key in the ignition. A child could operate power windows, other controls, or move the vehicle.

Auto-Down — Driver's Side Only

The driver's window switch has an Auto-Down feature. Push the window switch past the first detent, release, and the window will go down automatically. To cancel the Auto-Down movement, operate the switch in either the up or down direction and release the switch.

Window Lockout Switch

The Window Lockout Switch on the driver's door allows you to disable the window control on the other doors. To disable the window controls on the other doors, press the Window Lockout button. To enable the window controls, press the Window Lockout button a second time.

Power Window Lockout Switch

Wind Buffeting

Wind buffeting can be described as the perception of pressure on the ears or a helicopter-type sound in the ears. Your vehicle may exhibit wind buffeting with the

windows down or partially open. This is a normal occurrence and can be minimized. If the buffeting occurs with the rear windows open, open the front and rear windows together to minimize the buffeting.

OCCUPANT RESTRAINTS

Some of the most important safety features in your vehicle are the restraint systems:

- Three-point lap and shoulder belts for all seating positions
- Advanced Front Airbags for driver and front passenger
- Supplemental Side Airbag Inflatable Curtains (SABIC) for the driver and passengers seated next to a window — if equipped
- An energy-absorbing steering column and steering wheel
- Knee bolsters for front seat occupants
- Front seat belts incorporate pretensioners to enhance occupant protection by managing occupant energy during an impact event

If you will be carrying children too small for adult-sized seat belts, the seat belts or the Lower Anchors and Tether for CHildren (LATCH) feature can be used to hold infant and child restraint systems. For more information on LATCH, see Lower Anchors and Tether for CHildren (LATCH).

NOTE: The Advanced Front Airbags have a multistage inflator design. This allows the airbag to have different rates of inflation based on the severity and type of collision.

Please pay close attention to the information in this section. It tells you how to use your restraint system properly, to keep you and your passengers as safe as possible.

WARNING!

In an accident, you and your passengers can suffer much greater injuries if you are not properly buckled up. You can strike the interior of your vehicle or other passengers, or you can be thrown out of the vehicle. Always be sure you and others in your vehicle are buckled up properly.

Buckle up even though you are an excellent driver, even on short trips. Someone on the road may be a poor driver and cause an accident that includes you. This can happen far away from home or on your own street.

Research has shown that seat belts save lives, and they can reduce the seriousness of injuries in an accident. Some of the worst injuries happen when people are thrown from the vehicle. Seat belts reduce the possibility of ejection and the risk of injury caused by striking the inside of the vehicle. Everyone in a motor vehicle should be belted at all times.

Lap/Shoulder Belts

All seating positions, have combination lap/shoulder belts. The belt webbing retractor is designed to lock during very sudden stops or accidents. This feature allows the shoulder part of the belt to move freely with you under normal conditions. However, in an accident the belt will lock and reduce the risk of you striking the inside of the vehicle or being thrown out.

The seat belts in the passenger seating positions are equipped with an Automatic Locking Retractor (ALR) to secure a Child Restraint System (CRS). For additional

information on ALR, refer to "Automatic Locking Mode" in this section. The following chart defines the seating positions with this feature.

	Left	Center	Right
First Row			CRS Lock
Second Row	CRS Lock	CRS Lock — If Equipped	CRS Lock

If the passenger seating position is equipped with an ALR the proper fastening procedure is as follows:

1. For Child Restraint System (CRS): Pull the seat belt all the way out, then latch the buckle and allow the excess webbing to retract. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the Automatic Locking mode. This will secure the child restraint tightly and properly.

2. For regular occupants: Only pull the belt webbing out far enough to comfortably wrap around the occupants mid-section. If the belt is pulled fully out, allow the belt to fully retract. As the belt retracts, you will hear a clicking sound. Then, carefully pull out only the amount of webbing necessary to latch the buckle.

WARNING!

- **It is dangerous to ride in a cargo area, inside or outside of a vehicle. In an accident, 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 seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

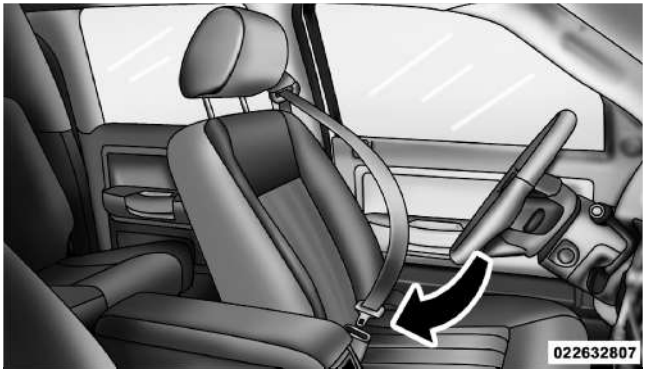
(Continued)

WARNING! (Continued)

- **Wearing a seat belt incorrectly is dangerous. Seat belts are designed to go around the large bones of your body. These are the strongest parts of your body and can take the forces of an accident the best. Wearing your belt in the wrong place could make your injuries in an accident much worse. You might suffer internal injuries, or you could even slide out of part of the belt. Follow these instructions to wear your seat belt safely and to keep your passengers safe, too.**
- **Two people should never be belted into a single seat belt. People belted together can crash into one another in an accident, hurting one another badly. Never use a lap/shoulder belt or a lap belt for more than one person, no matter what their size.**

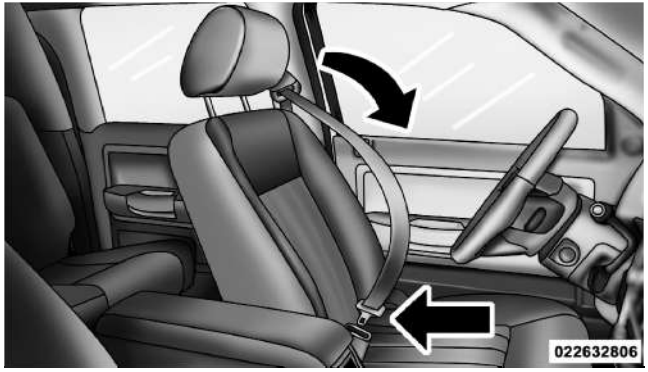
Lap/Shoulder Belt Operating Instructions

1. Enter the vehicle and close the door. Sit back and adjust the seat.



Pulling Out Belt and Latch Plate

2. The seat belt latch plate is above the back of the front seat, next to your arm in the rear seat. Grasp the latch plate and pull out the belt. Slide the latch plate up the webbing as far as necessary to allow the belt to go around your lap.



Latch Plate To Buckle

3. When the belt is long enough to fit, insert the latch plate into the buckle until you hear a "click."

WARNING!

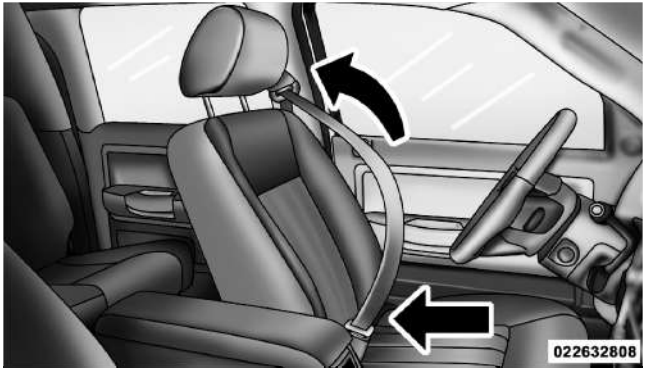
- **A belt buckled into the wrong buckle will not protect you properly. The lap portion could ride too high on your body, possibly causing internal injuries. Always buckle your belt into the buckle nearest you.**
- **A belt that is too loose will not protect you properly. In a sudden stop you could move too far forward, increasing the possibility of injury. Wear your seat belt snugly.**

(Continued)

WARNING! (Continued)

- **A belt that is worn under your arm is dangerous. Your body could strike the inside surfaces of the vehicle in an accident, increasing head and neck injury. A belt worn under the arm can cause internal injuries. Ribs aren't as strong as shoulder bones. Wear the belt over your shoulder so that your strongest bones will take the force in a collision.**
- **A shoulder belt placed behind you will not protect you from injury during an accident. You are more likely to hit your head in a collision if you do not wear your shoulder belt. The lap and shoulder belt are meant to be used together.**

4. Position the lap belt across your thighs, below your abdomen. To remove slack in the lap belt portion, pull up on the shoulder belt. To loosen the lap belt if it is too tight, tilt the latch plate and pull on the lap belt. A snug belt reduces the risk of sliding under the belt in an accident.



Removing Slack From Belt

WARNING!

- **A lap belt worn too high can increase the risk of internal injury in an accident. The belt forces won't be at the strong hip and pelvic bones, but across your abdomen. Always wear the lap belt as low as possible and keep it snug.**
- **A twisted belt will not protect you properly. In a collision, it could even cut into you. Be sure the belt is straight. If you can't straighten a belt in your vehicle, take it to your authorized dealer immediately and have it fixed.**

5. Position the shoulder belt on your chest so that it is comfortable and not resting on your neck. The retractor will withdraw any slack in the belt.

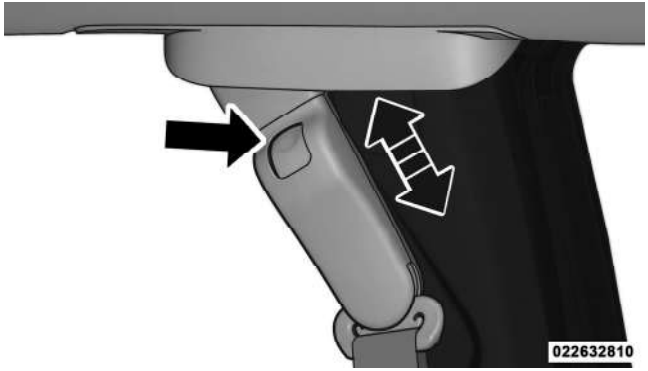
6. To release the belt, push the red button on the buckle. The belt will automatically retract to its stowed position. If necessary, slide the latch plate down the webbing to allow the belt to retract fully.

WARNING!

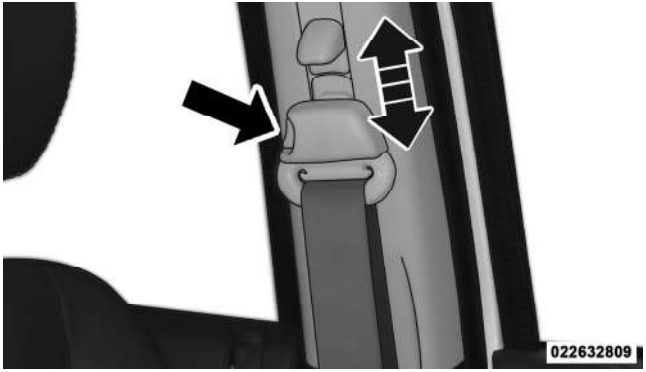
A frayed or torn belt could rip apart in an accident and leave you with no protection. Inspect the belt system periodically, checking for cuts, frays, or loose parts. Damaged parts must be replaced immediately. Do not disassemble or modify the system. Seat belt assemblies must be replaced after an accident if they have been damaged (bent retractor, torn webbing, etc.).

Adjustable Upper Shoulder Belt Anchorage

In the front and second row outboard seats, the shoulder belt can be adjusted upward or downward to help position the belt away from your neck. Press the release button to release the anchorage, and then move it up or down to the position that fits you best.



Adjustable Upper Shoulder Belt Anchorage (Extended Cab)



Adjusting Upper Shoulder Belt

As a guide, if you are shorter than average, you will prefer a lower position, and if you are taller than average, you will prefer a higher position. When you release the anchorage, try to move it down to make sure that it is locked in the desired position.

NOTE: The adjustable upper shoulder belt anchorage is equipped with an Easy Up feature. This feature allows the shoulder belt anchorage to be adjusted in the upward position without pushing the release button. To verify the shoulder belt anchorage is latched, pull downward on the shoulder belt anchorage until it is locked into position.

Seat Belts in Passenger Seating Positions

The seat belts in the passenger seating positions are equipped with a cinching latch plate which are used to secure a child restraint system. For additional information refer to "Installing Child Restraints Using the Vehicle Seat Belt" under the "Child Restraints" section. The following chart defines the type of feature for each seating position.

	Left	Center	Right
First Row		Cinch – if equipped	Cinch
Second Row	Cinch	Cinch – if equipped	Cinch

If the passenger seating position is equipped with an ALR and is being used for normal usage:

Only pull the belt webbing out far enough to comfortably wrap around the occupants mid-section so as to not activate the ALR. If the ALR is activated you will hear a ratcheting sound as the belt retracts. Allow the webbing to retract completely in this case and then carefully pull out only the amount of webbing necessary to comfortably wrap around the occupants mid-section. Slide the latch plate into the buckle until you hear a ″click.″

Center Lap Belts

The front center seating position has a lap belt only. To fasten the lap belt, slide the latch plate into the buckle until you hear a "click." To lengthen the lap belt, tilt the latch plate and pull. To remove slack, pull the loose end of the webbing. Wear the lap belt snug against the hips. Sit back and erect in the seat, then adjust the belt as tightly as is comfortable.

WARNING!

- **A lap belt worn too loose or too high is dangerous.**
- **A belt worn too loose can allow you to slip down and under the belt in a collision.**
- **A belt that is too loose or too high will apply crash forces to the abdomen, not to the stronger hip bones. In either case, the risk of internal injuries is greater. Wear a lap belt low and snug.**

Lap/Shoulder Belt Untwisting Procedure

Use the following procedure to untwist a twisted lap/shoulder belt.

1. Position the latch plate as close as possible to the anchor point.

2. At about 6 to 12 in (15 to 30 cm) above the latch plate, grasp and twist the belt webbing 180 degrees to create a fold that begins immediately above the latch plate.

3. Slide the latch plate upward over the folded webbing. The folded webbing must enter the slot at the top of the latch plate.

4. Continue to slide the latch plate up until it clears the folded webbing.

Automatic Locking Retractors (ALR) Mode — If Equipped

In this mode, the shoulder belt is automatically pre-locked. The belt will still retract to remove any slack in the shoulder belt. The Automatic Locking Mode is available on all passenger-seating positions with a combination lap and shoulder belt.

When To Use The Automatic Locking Mode

Use the Automatic Locking Mode anytime a child safety seat is installed in a seating position that has a belt with this feature. Children 12 years old and under should always be properly restrained in the rear seat.

How To Engage The Automatic Locking Mode

1. Buckle the combination lap and shoulder belt.

2. Grasp the shoulder portion and pull downward until the entire belt is extracted.

3. Allow the belt to retract. As the belt retracts, you will hear a clicking sound. This indicates the safety belt is now in the Automatic Locking Mode.

How To Disengage The Automatic Locking Mode

Unbuckle the combination lap and shoulder belt and allow it to retract completely to disengage the Automatic Locking Mode and activate the vehicle sensitive (emergency) locking mode.

Seat Belt Pretensioners

The seat belts for both front seating positions are equipped with pretensioning devices that are designed to remove slack from the seat belt in the event of an accident. These devices improve the performance of the seat belt by assuring that the belt is tight around the occupant early in a collision. Pretensioners work for all size occupants, including those in child restraints.

NOTE: These devices are not a substitute for proper seat belt placement by the occupant. The seat belt still must be worn snugly and positioned properly.

The pretensioners are triggered by the Occupant Restraint Controller (ORC). Like the airbags, the pretensioners are single use items. A deployed pretensioner or a deployed airbag must be replaced immediately.

Energy Management Feature

This vehicle has a safety belt system with an Energy Management feature in the front seating positions to help further reduce the risk of injury in the event of a head-on accident. This safety belt system has a retractor assembly that is designed to release webbing in a controlled manner. This feature is designed to help reduce the belt force acting on the occupant's chest.

WARNING!

- **The belt and retractor assembly must be replaced if the seat belt assembly Automatic Locking Retractor (ALR) feature or any other seat belt function is not working properly when checked according to the procedures in the Service Manual.**
- **Failure to replace the belt and retractor assembly could increase the risk of injury in accidents.**

Enhanced Seat Belt Use Reminder System (BeltAlert®)

BeltAlert® is a feature intended to remind the driver to fasten their seatbelt. This feature is active whenever the ignition is on. If the driver is unbelted, the Seat Belt Reminder Light will turn on and remain on until the driver seatbelt is fastened. BeltAlert® triggers within 60 seconds of vehicle speed over 5 mph (8 km/h). The reminder sequence lasts for 96 seconds or until the driver seatbelt is fastened. After the sequence completes, the Seat Belt Reminder Light remains illuminated until the driver seatbelt is fastened. The driver should instruct all other occupants to fasten their seatbelts. If the driver seatbelt is unbuckled while traveling at speeds greater than 5 mph (8 km/h), BeltAlert® will chime as a single notification and illuminate the Seat Belt Reminder Light, then will proceed to the 96 second reminder sequence.

BeltAlert® will be reactivated if the driver's seat belt is unbuckled for more than 10 seconds and the vehicle speed is greater than 5 mph (8 km/h).

BeltAlert® Programming

BeltAlert® can be enabled or disabled by your authorized dealer, or by following these steps:

NOTE: The following steps must occur within the first 60 seconds of the ignition switch being turned to the ON/RUN or START position. Chrysler Group LLC does not recommend deactivating BeltAlert®.

1. With all doors closed, and the ignition switch in any position except ON/RUN or START, buckle the driver's seatbelt.

2. Turn the ignition switch to the ON/RUN position, (engine does not need to be running). Wait for the Seat Belt Reminder Light to turn off.

3. Within 60 seconds of turning the ignition switch to the ON/RUN position, unbuckle and then re-buckle the driver's seat belt at least three times within 60 seconds, ending with the seat belt buckled.

4. Turn off the engine. A single chime will sound to signify that you have successfully completed the programming.

NOTE: Watch the Seat Belt reminder Light to turn on while the seat belt retracts and turn off while re-buckling the seat belt.

BeltAlert® can be reactivated by repeating this procedure.

NOTE: Although BeltAlert® has been deactivated, the Seat Belt Reminder Light will continue to illuminate while the driver's seat belt remains unbuckled.

Seat Belts And Pregnant Women

We recommend that pregnant women use seat belts throughout their pregnancy. Keeping the mother safe is the best way to keep the baby safe.

Pregnant women should wear the lap part of the belt across the thighs and as snug against the hips as possible. Keep the belt low so that it does not come across the abdomen. That way the strong bones of the hips will take the force if there is an accident.

Seat Belt Extender

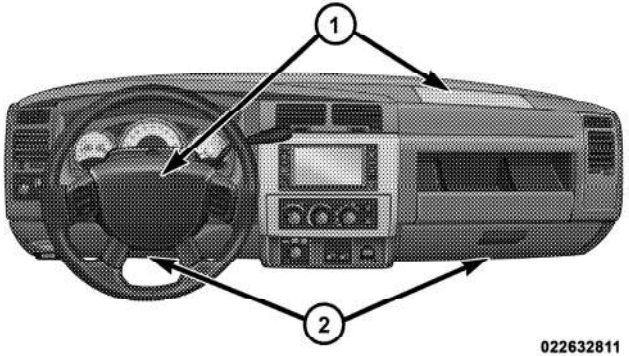
If a seat belt is too short, even when fully extended, your authorized dealer can provide you with a seat belt extender. This extender should be used only if the existing belt is not long enough. When it is not required, remove the extender and store it.

WARNING!

Using a seat belt extender when not needed can increase the risk of injury in an accident. Only use the seat belt extender when the lap belt is not long enough when it is worn low and snug, and in the recommended seating positions. Remove and store the extender when not needed.

Supplemental Restraint System (SRS) – Airbags

This vehicle has Advanced Front Airbags for both the driver and front passenger as a supplement to the seat belt restraint systems. The driver's Advanced Front Airbag is mounted in the center of the steering wheel. The passenger's Advanced Front Airbag is mounted in the instrument panel, above the glove compartment. The words SRS AIRBAG are embossed on the airbag covers.



Advanced Front Airbag and Knee Bolster Locations

1 — Driver and Passenger Advanced Front Airbags
2 — Knee Bolster

NOTE: These airbags are certified to the new Federal regulations for Advanced Airbags.

The Advanced Front Airbags have a multistage inflator design. This allows the airbag to have different rates of inflation based on the severity and type of collision.

This vehicle may be equipped with driver and/or front passenger seat track position sensors that may adjust the inflation rate of the Advanced Front Airbags based upon seat position.

This vehicle may be equipped with a driver and/or front passenger seat belt buckle switch that detects whether the driver or front passenger seat belt is fastened. The seat belt buckle switch may adjust the inflation rate of the Advanced Front Airbags.

This vehicle may also be equipped with Supplemental Side Airbag Inflatable Curtains (SABIC) to protect the driver, front, and rear passengers sitting next to a window. If the vehicle is equipped with SABIC airbags, they are located above the side windows and their covers are also labeled: SRS AIRBAG.

NOTE:

- Airbag covers may not be obvious in the interior trim; but they will open during airbag deployment.
- After any accident, the vehicle should be taken to an authorized dealer immediately.

Airbag System Components

Your vehicle may be equipped with the following airbag system components:

- Occupant Restraint Controller (ORC)
- Airbag Warning Light
- Steering Wheel and Column
- Instrument Panel
- Knee Impact Bolster
- Driver Advanced Front Airbag
- Passenger Advanced Front Airbag

- Supplemental Side Airbag Inflatable Curtains (SABIC)
- Front and Side Impact Sensors
- Front Seat Belt Pretensioners, Seat Belt Buckle Switch, and Seat Track Position Sensors

Advanced Front Airbag Features

The Advanced Front Airbag system has multistage driver and front passenger airbags. This system provides output appropriate to the severity and type of collision as determined by the Occupant Restraint Controller (ORC), which may receive information from the front impact sensors.

The first stage inflator is triggered immediately during an impact that requires airbag deployment. This low output is used in less severe collisions. A higher energy output is used for more severe collisions.

WARNING!

- **No objects should be placed over or near the airbag on the instrument panel, because any such objects could cause harm if the vehicle is in a collision severe enough to cause the airbag to inflate.**
- **Do not put anything on or around the airbag covers or attempt to open them manually. You may damage the airbags and you could be injured because the airbags may no longer be functional. The protective covers for the airbag cushions are designed to open only when the airbags are inflating.**
- **Do not drill, cut or tamper with the knee bolster in any way.**

(Continued)

WARNING! (Continued)

- **Do not mount any accessories to the knee bolster such as alarm lights, stereos, citizen band radios, etc.**
- **Do not have any accessory items installed which will alter the roof, including adding a sunroof to your vehicle. Do not add roof racks that require permanent attachments (bolts or screws) for installation on the vehicle roof. Do not drill into the roof of the vehicle for any reason.**

Supplemental Side Airbag Inflatable Curtain (SABIC) — If Equipped

SABIC airbags may offer side-impact protection to front and rear seat outboard occupants in addition to that provided by the body structure. Each airbag features inflated chambers placed adjacent to the head of each outboard occupant that reduce the potential for side-impact head injuries. The curtains deploy downward, covering both windows on the impact side.

NOTE: Airbag covers may not be obvious in the interior trim; but they will open during airbag deployment.

The system includes side impact sensors that are calibrated to deploy the SABIC airbags during impacts that require side airbag occupant protection.

WARNING!

- **If your vehicle is equipped with left and right Supplemental Side Airbag Inflatable Curtain (SABIC), do not stack luggage or other cargo up high enough to block the location of the SABIC. The area where the SABIC is located should remain free from any obstructions.**

(Continued)

WARNING! (Continued)

- **Do not use accessory seat covers or place objects between you and the side airbags; the performance could be adversely affected and/or objects could be pushed into you, causing serious injury.**

Knee Impact Bolsters

The Knee Impact Bolsters help protect the knees of the driver and the front passenger, and position front occupants for the best interaction with the Advanced Front Airbags.

Along with seat belts and pretensioners, Advanced Front Airbags work with the knee bolsters to provide improved protection for the driver and front passenger. Side airbags also work with seat belts to improve occupant protection.

Here are some simple steps you can take to minimize the risk of harm from a deploying airbag:

Children 12 years old and under should always ride buckled up in a rear seat.

WARNING!

Infants in rear-facing child restraints should never ride in the front seat of a vehicle with a passenger Advanced Front Airbag. An airbag deployment can cause severe injury or death to infants in that position.

Children that are not big enough to wear the vehicle seat belt properly (see Section on Child Restraints) should be secured in the rear seat in child restraints or belt-positioning booster seats. Older children who do not use child restraints or belt-positioning booster seats should ride properly buckled up in the rear seat. Never allow children to slide the shoulder belt behind them or under their arm.

If a child from 1 to 12 years old (not in a rear facing child seat) must ride in the front passenger seat, move the seat as far back as possible and use the proper child restraint. (Refer to "Child Restraints")

You should read the instructions provided with your child restraint to make sure that you are using it properly.

All occupants should always wear their lap and shoulder belts properly.

The driver and front passenger seats should be moved back as far as practical to allow the Advanced Front Airbags room to inflate.

Do not lean against the door or window. If your vehicle has side airbags, and deployment occurs, the side airbags will inflate forcefully into the space between you and the door.

If the airbag system in this vehicle needs to be modified to accommodate a disabled person, contact the Customer Center. Phone numbers are provided under "If You Need Assistance".

WARNING!

- **Relying on the airbags alone could lead to more severe injuries in a collision. The airbags work with your seat belt to restrain you properly. In some collisions, the airbags won't deploy at all. Always wear your seat belts even though you have airbags.**

(Continued)

WARNING! (Continued)

- **Being too close to the steering wheel or instrument panel during Advanced Front Airbag deployment could cause serious injury, including death. Airbags need room to inflate. Sit back, comfortably extending your arms to reach the steering wheel or instrument panel.**
- **The Side Airbag Inflatable Curtains (SABIC) need room to inflate. Do not lean against the door or window. Sit upright in the center of the seat.**

Airbag Deployment Sensors and Controls

Occupant Restraint Controller (ORC)

The **ORC** is part of a Federally regulated safety system required for this vehicle.

The ORC determines if deployment of the front and/or side airbags in a frontal or side collision is required. Based on the impact sensors signals, a central electronic ORC deploys the Advanced Front Airbags, SABIC airbags — if equipped, and front seat belt pretensioners, as required, depending on the severity and type of impact.

Advanced Front Airbags are designed to provide additional protection by supplementing the seat belts in certain frontal collisions depending on the severity and type of collision. Advanced Front Airbags are not expected to reduce the risk of injury in rear, rollover, or side collisions.

The Advanced Front Airbags will not deploy in all frontal collisions, including some that may produce substantial vehicle damage — for example, some pole collisions, truck underrides, and angle offset collisions. On the other hand, depending on the type and location of impact, Advanced Front Airbags may deploy in crashes with little vehicle front-end damage but that produce a severe initial deceleration.

The side airbags will not deploy in all side collisions. Side airbag deployment will depend on the severity and type of collision.

Because airbag sensors measure vehicle deceleration over time, vehicle speed and damage by themselves are not good indicators of whether or not an airbag should have deployed.

Seat belts are necessary for your protection in all accidents, and also are needed to help keep you in position, away from an inflating airbag.

The ORC monitors the readiness of the electronic parts of the airbag system whenever the ignition switch is in the START or ON/RUN position. If the key is in the LOCK position, in the ACC position, or not in the ignition, the airbag system is not on and the airbags will not inflate.

The ORC contains a backup power supply system that may deploy the airbags even if the battery loses power or it becomes disconnected prior to deployment.

Also, the ORC turns on the Airbag Warning Light in the instrument panel for approximately four to eight seconds for a self-check when the ignition is first turned on. After the self-check, the Airbag Warning Light will turn off. If the ORC detects a malfunction in any part of the system, it turns on the Airbag Warning Light, either momentarily or continuously. A single chime will sound if the light comes on again after initial startup.

It also includes diagnostics that will illuminate the instrument cluster Airbag Warning Light if a malfunction is noted that could affect the airbag system.

WARNING!

Ignoring the Airbag Warning Light in your instrument panel could mean you won't have the airbags to protect you in a collision. If the light does not come on, stays on after you start the vehicle, or if it comes on as you drive, have an authorized dealer service the airbag system immediately.

Driver and Passenger Advanced Front Airbag Inflator Units

The Driver and Passenger Advanced Front Airbag Inflator Units are located in the center of the steering wheel and the right side of the instrument panel. When the ORC detects a collision requiring the Advanced Front Airbags, it signals the inflator units. A large quantity of non-toxic gas is generated to inflate the Advanced Front Airbags. Different airbag inflation rates are possible, based on the collision type and severity. The steering wheel hub trim cover and the upper right side of the instrument panel separate and fold out of the way as the airbags inflate to their full size. The airbags fully inflate in about 50 to 70 milliseconds. This is about half of the time it takes to blink your eyes. The airbags then quickly deflate while helping to restrain the driver and front passenger.

The Advanced Front Airbag gas is vented through the vent holes in the sides of the airbag. In this way, the airbags do not interfere with your control of the vehicle.

Supplemental Side Airbag Inflatable Curtain (SABIC) Inflator Units — If Equipped

During collisions where the impact is confined to a particular area of the side of the vehicle, the ORC may deploy the SABIC airbags, depending on the severity and type of collision. In these events, the ORC will deploy the SABIC only on the impact side of the vehicle.

A quantity of non-toxic gas is generated to inflate the SABIC. The inflating SABIC pushes the outside edge of the headliner out of the way and covers the window. The SABIC inflates in about 30 milliseconds (about one-quarter of the time that it takes to blink your eyes) with enough force to injure you if you are not belted and seated properly, or if items are positioned in the area where the SABIC inflates. This especially applies to children. The SABIC is only about 3-1/2 in (9 cm) thick when it is inflated.

Because airbag sensors estimate deceleration over time, vehicle speed and damage are not good indicators of whether or not an airbag should have deployed.

Front and Side Impact Sensors

In front and side impacts, front and side impact sensors can aid the ORC in determining the appropriate response to certain impact events.

Enhanced Accident Response System

In the event of an impact causing airbag deployment, if the communication network remains intact, and the power remains intact, depending on the nature of the event the ORC will determine whether to have the Enhanced Accident Response System perform the following functions:

- Cut off fuel to the engine.
- Flash hazard lights as long as the battery has power or until the ignition key is turned off.
- Turn on the interior lights, which remain on as long as the battery has power or until the ignition key is removed.
- Unlock the doors automatically.

If a Deployment Occurs

The Advanced Front Airbags are designed to deflate immediately after deployment.

NOTE: Front and/or side airbags will not deploy in all collisions. This does not mean something is wrong with the airbag system.

If you do have a collision which deploys the airbags, any or all of the following may occur:

- The nylon airbag material may sometimes cause abrasions and/or skin reddening to the driver and front passenger as the airbags deploy and unfold. The abrasions are similar to friction rope burns or those you might get sliding along a carpet or gymnasium floor. They are not caused by contact with chemicals. They are not permanent and normally heal quickly. However, if you haven't healed significantly within a few days, or if you have any blistering, see your doctor immediately.
- As the airbags deflate, you may see some smoke-like particles. The particles are a normal by-product of the process that generates the non-toxic gas used for airbag inflation. These airborne particles may irritate the skin, eyes, nose, or throat. If you have skin or eye irritation, rinse the area with cool water. For nose or throat irritation, move to fresh air. If the irritation continues, see your doctor. If these particles settle on your clothing, follow the garment manufacturer's instructions for cleaning.

Do not drive your vehicle after the airbags have deployed. If you are involved in another collision, the airbags will not be in place to protect you.

WARNING!

Deployed airbags and seat belt pretensioners cannot protect you in another collision. Have the airbags, seat belt pretensioners, and the front seat belt retractor assemblies replaced by an authorized dealer immediately. Also, have the Occupant Restraint Controller (ORC) system serviced as well.

Maintaining Your Airbag System

WARNING!

- **Modifications to any part of the airbag system could cause it to fail when you need it. You could be injured if the airbag system is not there to protect you. Do not modify the components or wiring, including adding any kind of badges or stickers to the steering wheel hub trim cover or the upper right side of the instrument panel. Do not modify the front bumper, vehicle body structure, or add aftermarket side steps or running boards.**
- **It is dangerous to try to repair any part of the airbag system yourself. Be sure to tell anyone who works on your vehicle that it has an airbag system.**

(Continued)

WARNING! (Continued)

- **Do not attempt to modify any part of your airbag system. The airbag may inflate accidentally or may not function properly if modifications are made. Take your vehicle to an authorized dealer for any airbag system service. If your seat, including your trim cover and cushion, needs to be serviced in any way (including removal or loosening/tightening of seat attachment bolts), take the vehicle to your authorized dealer. Only manufacturer approved seat accessories may be used. If it is necessary to modify the airbag system for persons with disabilities, contact your authorized dealer.**

Airbag Warning Light

You will want to have the airbags ready to inflate for your protection in a collision. The airbag system is designed to be maintenance free, if any of the following occurs, have an authorized dealer service the airbag system immediately.

- The Airbag Warning Light does not come on during the four to eight seconds when the ignition switch is first turned to the ON/RUN position.
- The Airbag Warning Light remains on after the four to eight-second interval.
- The Airbag Warning Light comes on intermittently or remains on while driving.

NOTE: If the speedometer, tachometer, or any engine related gauges are not working, the Occupant Restraint Controller (ORC) may also be disabled. The airbags may not be ready to inflate for your protection. Promptly check the fuse block for blown fuses. Refer to the label located on the inside of the fuse block cover for the proper airbag fuses. See your authorized dealer if the fuse is good.

Event Data Recorder (EDR)

This vehicle is equipped with an event data recorder (EDR). The main purpose of an EDR is to record, in certain crash or near crash-like situations, such as an air bag deployment or hitting a road obstacle, data that will assist in understanding how a vehicle's systems performed. The EDR is designed to record data related to vehicle dynamics and safety systems for a short period of time, typically 30 seconds or less. The EDR in this vehicle is designed to record such data as:

- How various systems in your vehicle were operating;
- Whether or not the driver and passenger safety belts were buckled/fastened;
- How far (if at all) the driver was depressing the accelerator and/or brake pedal; and,
- How fast the vehicle was traveling.

These data can help provide a better understanding of the circumstances in which crashes and injuries occur.

NOTE: EDR data are recorded by your vehicle only if a non-trivial crash situation occurs; no data are recorded by the EDR under normal driving conditions and no personal data (e.g. name, gender, age, and crash location) are recorded. However, other parties, such as law enforcement, could combine the EDR data with the type of personally identifying data routinely acquired during a crash investigation.

To read data recorded by an EDR, special equipment is required, and access to the vehicle or the EDR is needed. In addition to the vehicle manufacturer, other parties such as law enforcement, that have the special equipment, can read the information if they have access to the vehicle or the EDR.

Child Restraints

Everyone in your vehicle needs to be buckled up all the time, including babies and children. Every state in the United States, and all Canadian provinces, require that small children ride in proper restraint systems. This is the law, and you can be prosecuted for ignoring it. Children 12 years and younger should ride properly buckled up in a rear seat, if available. According to crash statistics, children are safer when properly restrained in the rear seats rather than in the front.

WARNING!

In an collision, an unrestrained child, even a tiny baby, can become a projectile inside the vehicle. The force required to hold even an infant on your lap can become so great that you could not hold the child, no matter how strong you are. The child and others could be badly injured. Any child riding in your vehicle should be in a proper restraint for the child's size.

There are different sizes and types of restraints for children from newborn size to the child almost large enough for an adult seat belt. Always check the child seat owner's manual to ensure you have the right seat for your child. Use the restraint that is correct for your child.

Infants and Child Restraints

- Safety experts recommend that children ride rearward-facing in the vehicle until they are at least one year old and weigh at least 20 lbs (9 kg). Two types of child restraints can be used rearward-facing: infant carriers and "convertible" child seats.
- The infant carrier is only used rearward-facing in the vehicle. It is recommended for children who weigh up to about 20 lbs (9 kg). "Convertible" child seats can be used either rearward-facing or forward-facing in the vehicle. Convertible child seats often have a higher weight limit in the rearward-facing direction than infant carriers do, so they can be used rearward-facing by children who weigh more than 20 lbs (9 kg) but are less than one year old. Both types of child restraints are held in the vehicle by the seat belt or the LATCH child restraint anchorage system. (Refer to "LATCH - Child Seat Anchorage System".)

WARNING!

Rearward-facing child seats must never be used in the front seat of a vehicle with the front passenger airbag unless the airbag is turned off. An airbag deployment could cause severe injury or death to infants in this position.

Older Children and Child Restraints

- Children who weigh more than 20 lbs (9 kg), and who are older than one year, can ride forward-facing in the vehicle. Forward-facing child seats and convertible child seats used in the forward-facing direction are for children who weigh 20 to 40 lbs (9 to 18 kg), and are older than one year old. These child seats are also held in the vehicle by the seat belt or the LATCH child restraint anchorage system. (Refer to "LATCH - Child Seat Anchorage System".)

- The belt-positioning booster seat is for children weighing more than 40 lbs (18 kg), but who are still too small to fit the vehicle's seat belts properly. If the child cannot sit with knees bent over the seat cushion while the child's back is against the seatback, they need a belt-positioning booster seat. The child and booster seat are held in the vehicle by the lap/shoulder belt.

Children Too Large for Booster Seats

- Children who are large enough to wear the shoulder belt comfortably, and whose legs are long enough to bend over the front of the seat when their back is against the seat back should use the lap/shoulder belt in a rear seat.
- Make sure that the child is upright in the seat.
- The lap portion should be low on the hips and as snug as possible.
- Check belt fit periodically. A child's squirming or slouching can move the belt out of position.
- If the shoulder belt contacts the face or neck, move the child closer to the center of the vehicle. Never allow a child to put the shoulder belt under an arm.

NOTE: For additional information, refer to www.seatcheck.org or call 1–866–SEATCHECK. Canadian residents, should refer to Transport Canada's website for additional information. http://www.tc.gc.ca/roadsafety/safedrivers/childsafety/index.htm

WARNING!

- **Improper installation can lead to failure of an infant or child restraint. It could come loose in a collision. The child could be badly injured or killed. Follow the manufacturer's directions exactly when installing an infant or child restraint.**

(Continued)

WARNING! (Continued)

- **A rearward-facing infant restraint should only be used in a rear seat of a vehicle that does not have an airbag off switch. A rearward-facing infant restraint in the front seat may be struck by a deploying passenger airbag, which may cause severe or fatal injury to the infant.**

Here are some tips for getting the most out of your child restraint:

- Before buying any restraint system, make sure that it has a label certifying that it meets all applicable Safety Standards. The manufacturer recommends that you try a child restraint in the vehicle seats where you will use it before you buy it.
- The restraint must be appropriate for your child's weight and height. Check the label on the restraint for weight and height limits.
- Carefully follow the instructions that come with the restraint. If you install the restraint improperly, it may not work when you need it.
- The Extended Cab first, and Crew Cab second row outside seating positions, have cinching latch plates. These are designed to keep the lap portion tight around the child restraint so that it is not necessary to use a locking clip. If the seat belt has a cinching latch plate, pulling up on the shoulder portion of the lap/shoulder belt will tighten the belt. The cinching latch plate will keep the belt tight; however, any seat belt system will loosen with time, so check the belt occasionally and pull it tight, if necessary.
- Buckle the child into the restraint exactly as the manufacturer's instructions tell you.

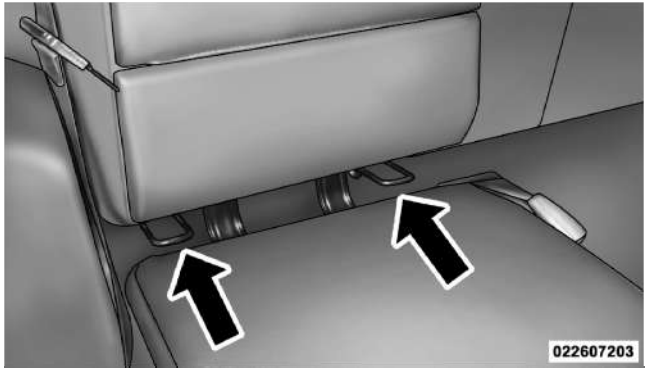
- When your child restraint is not in use, secure it in the vehicle with the seat belt or remove it from the vehicle. Do not leave it loose in the vehicle. In a sudden stop or accident, it could strike the occupants or seatbacks and cause serious personal injury.

LATCH - Child Seat Anchorage System (Lower Anchors and Tether for CHildren) — if equipped

Each vehicle is equipped with the child restraint anchorage system called LATCH, which stands for Lower Anchors and Tethers for CHildren. The LATCH system provides for the installation of the child restraint without using the vehicle's seat belts, instead securing the child restraint using lower anchorages and upper tether straps from the child restraint to the vehicle structure. LATCH-compatible child restraint systems are now available. However, because the lower anchorages are to be introduced over a period of years, child restraint systems having attachments for those anchorages will continue to also have features for installation using the vehicle's seat belts. Child restraints having tether straps and hooks for connection to the top tether anchorages, have been available for some time. For some older child restraints, many child restraint manufacturers offer add-on tether strap kits or retro-fit kits. You are urged to take advantage of all the available attachments provided with your child restraint in any vehicle.

Extended Cab

- The Extended Cab right rear (if equipped with a rear seat) passenger seating position has lower anchorages for LATCH-equipped child restraints.

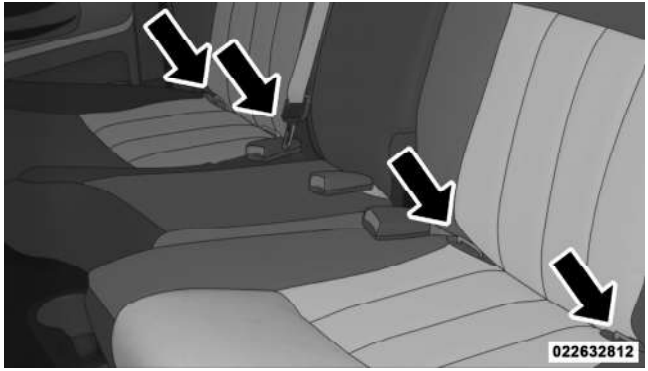


LATCH Anchors

Crew Cab

- The Crew Cab second row seat has lower anchorages that are capable of accommodating LATCH-compatible child seats having flexible, webbing-mounted lower attachments at all three seating positions. Child seats with fixed lower attachments must be installed in the outboard positions only. Regardless of the specific type of lower attachment, never install LATCH-compatible child seats such that two seats share a common lower anchorage. If you are installing LATCH-compatible child restraints in adjacent rear seating positions, you can use the LATCH anchors or the vehicle's seat belt for the outboard position, but you must use the vehicle's seat belt at the center position.

If your child restraints are not LATCH-compatible, you can only install the child restraints using the vehicle's seat belts. Refer to "Installing the LATCH-Compatible Child Restraint System".



LATCH Anchors

Installing the LATCH-Compatible Child Restraint System — if equipped

We urge you to carefully follow the directions of the manufacturer when installing your child restraint. Not all child restraint systems will be installed as described here. Again, carefully follow the installation instructions that were provided with the child restraint system. The rear seat lower anchorages are round bars, located at the rear of the seat cushion where it meets the seatback, and are just visible when you lean into the vehicle to install the child restraint. You will easily feel them if you run your finger along the intersection of the seatback and seat cushion surfaces.

In addition, there are tether strap anchorages at each LATCH seating position (Refer to "Child Restraint Tether Anchor".) Many, but not all, restraint systems will be equipped with separate straps on each side, with each having a hook or connector for attachment to the lower anchorage and a means of adjusting the tension in the

strap. Forward-facing toddler restraints, and some rear-facing infant restraints, will also be equipped with a tether strap, a hook for attachment to the tether strap anchorage, and a means of adjusting the tension of the strap.

You will first loosen the child seat adjusters on the lower straps and on the tether strap so that you can more easily attach the hooks or connectors to the vehicle anchorages. Next, attach the lower hooks or connectors over the top of the anchorage bars, pushing aside the seat cover material. Then, attach the tether strap to the anchorage located on the back of the seat, being careful to route the tether strap to provide the most direct path between the anchor and the child restraint. If your vehicle is equipped with adjustable rear head restraints, raise the head restraint and route the tether strap under the head restraint and between the two posts. Finally, tighten all three straps as you push the child restraint rearward and downward into the seat, removing slack in the straps according to the child restraint manufacturer's instructions.

NOTE: When using the LATCH attaching system to install a child restraint, please ensure that all seat belts not being used for occupant restraints are stowed and out of reach of children. It is recommended that before installing the child restraint, buckle the seat belt so the seat belt is tucked behind the child restraint and out of reach. If the buckled seat belt interferes with the child restraint installation, instead of tucking the seat belt behind the child restraint, route the seat belt through the child restraint belt path and then buckle it. This should stow the seat belt out of the reach of an inquisitive child. Remind all children in the vehicle that the seat belts are not toys and should not be played with, and never leave your child unattended in the vehicle.

WARNING!

Improper installation of a child restraint to the LATCH anchorages can lead to failure of an infant or child restraint. The child could be badly injured or killed. Follow the manufacturer's directions exactly when installing an infant or child restraint.

Installing Child Restraints Using the Vehicle Seat Belt

The passenger seat belts are equipped with cinching latch plates to secure a Child Restraint System (CRS). These types of seat belts are designed to keep the lap portion of the seat belt tight around the child restraint so that it is not necessary to use a locking clip. The ALR will make a ratcheting noise if you extract the entire belt from the retractor and then allow the belt to retract into the retractor. For additional information on ALR, refer to "Automatic Locking Mode" description under "Seat Belts in Passenger Seating Positions" section. The chart below defines the seating positions with an Automatic Locking Retractor (ALR) or a cinching latch plate.

	Driver	Center	Passenger
First Row			CRS Lock
Second Row	CRS Lock	CRS Lock — If Equipped	CRS Lock

Installing a Child Restraint with a Cinching Latch Plate:

1. To install a child restraint with a cinching latch plate, first, pull enough of the seat belt webbing from the retractor to route it through the belt path of the child. Slide the latch plate into the buckle until you hear a "click."

2. Finally, pull on any excess webbing to tighten the lap portion around the child restraint. Any seat belt system will loosen with time, so check the belt occasionally, and pull it tight if necessary.

In the rear seat, you may have trouble tightening the lap/shoulder belt on the child restraint because the buckle or latch plate is too close to the belt path opening on the restraint. Disconnect the latch plate from the buckle and twist the short buckle-end belt several times to shorten it. Insert the latch plate into the buckle with the release button facing out.

If the belt still can't be tightened, or if pulling and pushing on the restraint loosens the belt, disconnect the latch plate from the buckle, turn the buckle around, and insert the latch plate into the buckle again. If you still can't make the child restraint secure, try a different seating position.

Child Restraint Tether Anchor

The Extended Cab model has one routing strap located at the bottom of the rear outboard seating position. The tether anchor itself is located in the center of vehicle, in between the two seating positions. When there is a rear seat delete option, the tether anchorage located on the cab back panel is designed to be used for the front seat center seating position. The Crew Cab model has three anchorages located behind each of the rear seating positions (rear left, rear center, and rear right).

WARNING!

- **With a child restraint installed in the rear passenger side locations, use care when adjusting the front seat(s) rearward, to avoid the front seatback coming in contact with the belted child directly behind the seat. The child could be injured.**

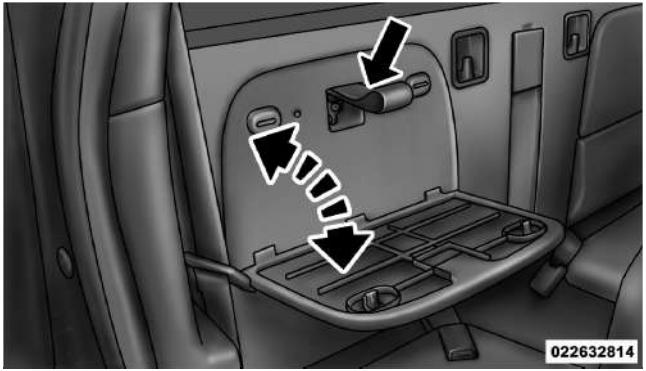
(Continued)

WARNING! (Continued)

- **Improper installation can lead to failure of an infant or child restraint. It could come loose in a collision. The child could be seriously injured or killed. Make sure the child restraint tether strap is always routed through the proper anchor strap inner loop.**

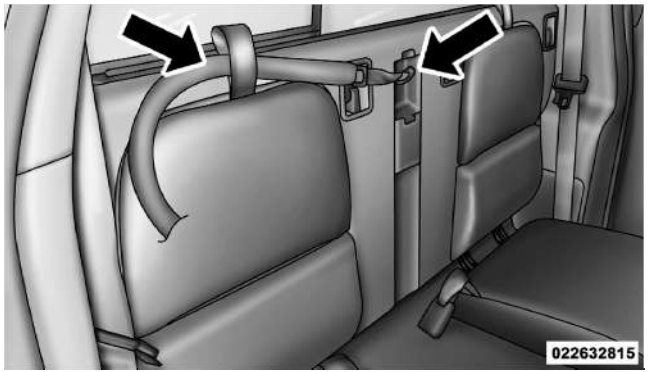
Tether Straps at the Rear Passenger Seat (Extended Cab)

1. Route the child restraint tether strap through the routing loop, located directly behind the child restraint. The routing loops are located behind the flip-down door on the cab back panel (padded bolster).



Tether Strap Routing Loop

2. Route the tether strap across to the center tether anchorage. The center tether is located behind the slide door in the center of the vehicle, between the two seating positions.



Tether Strap Routing

3. Remove the slack in the tether strap so that the anchor strap is pulled tight.

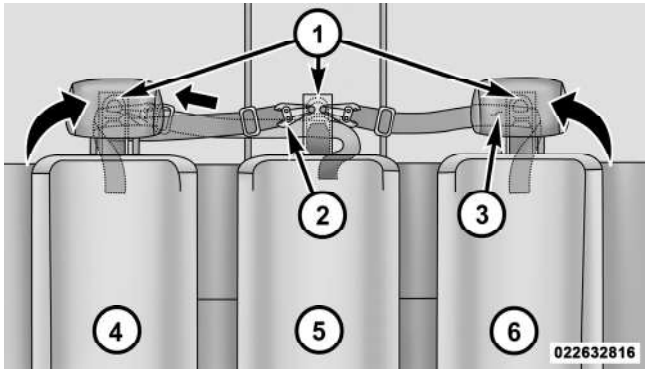
Tether Straps at the Rear Passenger Seat (Crew Cab)

1. Route the child restraint tether strap under the head restraint for the outboard seating positions, and then through the anchor strap outer loop (webbing material loop), located directly behind the child restraint.

2. Route the tether strap across to the nearest installed anchor strap, and attach the tether strap hook to the anchor strap inner metal ring.

3. Remove the slack in the tether strap so that both anchor straps are pulled tight.

NOTE: Two anchors must be used for any of the three seating positions.



Multiple Child Restraints

1 — Inner Anchor Strap Rings	4 — Passenger Side Rear Child Seat
2 — Snap Hook	5 — Center Rear Child Seat
3 — Tether Strap	6 — Drivers Side Rear Child Seat

WARNING!

An incorrectly anchored tether strap could lead to seat failure and injury to the child. In a collision, the seat could come loose and allow the child to crash into the inside of the vehicle or other passengers, or even be thrown from the vehicle. Use only the anchor positions directly behind the child restraint to secure a child restraint top tether strap. See your authorized dealer for help, if necessary.

Transporting Pets

Airbags deploying in the front seat could harm your pet. An unrestrained pet will be thrown about and possibly injured, or injure a passenger during panic braking or in an accident. Pets should be restrained in the rear seat in pet harnesses or pet carriers that are secured by seat belts.

ENGINE BREAK-IN RECOMMENDATIONS

A long break-in period is not required for the engine and drivetrain (transmission and axle) in your vehicle.

Drive moderately during the first 300 miles (500 km). After the initial 60 miles (100 km), speeds up to 50 or 55 mph (80 or 90 km/h) are desirable.

While cruising, brief full-throttle acceleration within the limits of local traffic laws, contributes to a good break-in. Wide-open throttle acceleration in low gear can be detrimental and should be avoided.

The engine oil installed in the engine at the factory is a high-quality energy conserving type lubricant. Oil changes should be consistent with anticipated climate conditions under which vehicle operations will occur. For the recommended viscosity and quality grades refer to "Maintenance Procedures" in "Maintaining Your Vehicle". NON-DETERGENT OR STRAIGHT MINERAL OILS MUST NEVER BE USED.

A new engine may consume some oil during its first few thousand miles (kilometers) of operation. This should be considered a normal part of the break-in and not interpreted as an indication of difficulty.

SAFETY TIPS

Transporting Passengers

NEVER TRANSPORT PASSENGERS IN THE CARGO AREA.

WARNING!

- **Do not leave children or animals inside parked vehicles in hot weather. Interior heat build-up may cause serious injury or death.**
- **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 seat belts.**

(Continued)

WARNING! (Continued)

- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

Exhaust Gas

WARNING!

Exhaust gases can injure or kill. They contain carbon monoxide (CO), which is colorless and odorless. Breathing it can make you unconscious and can eventually poison you. To avoid breathing (CO) follow these safety tips:

Do not run the engine in a closed garage or in confined areas any longer than needed to move your vehicle in or out of the area.

If it is necessary to sit in a parked vehicle with the engine running, adjust your heating or cooling controls to force outside air into the vehicle. Set the blower at high speed.

If you are required to drive with the trunk/liftgate open, make sure that all windows are closed and the climate control BLOWER switch is set at high speed. DO NOT use the recirculation mode.

The best protection against carbon monoxide entry into the vehicle body is a properly maintained engine exhaust system.

Whenever a change is noticed in the sound of the exhaust system, when exhaust fumes can be detected inside the vehicle, or when the underside or rear of the vehicle is damaged, have a competent mechanic inspect the complete exhaust system and adjacent body areas for broken, damaged, deteriorated, or mispositioned parts. Open seams or loose connections could permit exhaust fumes to seep into the passenger compartment. In addition, inspect the exhaust system each time the vehicle is raised for lubrication or oil change. Replace as required.

Safety Checks You Should Make Inside the Vehicle

Seat Belts

Inspect the belt system periodically, checking for cuts, frays, and loose parts. Damaged parts must be replaced immediately. Do not disassemble or modify the system.

Front seat belt assemblies must be replaced after a collision. Rear seat belt assemblies must be replaced after a collision if they have been damaged (i.e., bent retractor, torn webbing, etc.). If there is any question regarding belt or retractor condition, replace the belt.

Airbag Warning Light

The light should come on and remain on for four to eight seconds as a bulb check when the ignition switch is first turned ON. If the light is not lit during starting, see your

authorized dealer. If the light stays on, flickers, or comes on while driving, have the system checked by an authorized dealer.

Defroster

Check operation by selecting the defrost mode and place the blower control on high speed. You should be able to feel the air directed against the windshield. See your authorized dealer for service if your defroster is inoperable.

Floor Mat Safety Information

Always use floor mats designed to fit the foot well of your vehicle. Use only floor mats that leave the pedal area unobstructed and that are firmly secured so that they cannot slip out of position and interfere with the pedals or impair safe operation of your vehicle in other ways.

WARNING!

Pedals that cannot move freely can cause loss of vehicle control and increase the risk of serious personal injury.

- **Always make sure that floor mats are properly attached to the floor mat fasteners.**
- **Never place or install floor mats or other floor coverings in the vehicle that cannot be properly secured to prevent them from moving and interfering with the pedals or the ability to control the vehicle.**
- **Never put floor mats or other floor coverings on top of already installed floor mats. Additional floor mats and other coverings will reduce the size of the pedal area and interfere with the pedals.**

(Continued)

WARNING! (Continued)

- **Check mounting of mats on a regular basis. Always properly reinstall and secure floor mats that have been removed for cleaning.**
- **Always make sure that objects cannot fall into the driver foot well while the vehicle is moving. Objects can become trapped under the brake pedal and accelerator pedal causing a loss of vehicle control.**
- **If required, mounting posts must be properly installed, if not equipped from the factory.**

Failure to properly follow floor mat installation or mounting can cause interference with the brake pedal and accelerator pedal operation causing loss of control of the vehicle.

Periodic Safety Checks You Should Make Outside the Vehicle

Tires

Examine tires for excessive tread wear and uneven wear patterns. Check for stones, nails, glass, or other objects lodged in the tread. Inspect the tread and sidewall for cuts and cracks. Check the wheel nuts for tightness. Check the tires (including spare) for proper pressure.

Lights

Have someone observe the operation of exterior lights while you work the controls. Check turn signal and high beam indicator lights on the instrument panel.

Door Latches
Check for positive closing, latching, and locking.

Fluid Leaks
Check area under vehicle after overnight parking for fuel, engine coolant, oil, or other fluid leaks. Also, if gasoline fumes are detected or if fuel, power steering fluid, or brake fluid leaks are suspected, the cause should be located and corrected immediately.

UNDERSTANDING THE FEATURES OF YOUR VEHICLE

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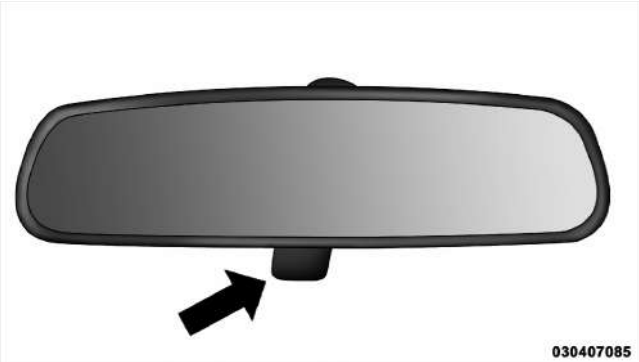
MIRRORS

Inside Day/Night Mirror

A two-point pivot system allows for horizontal and vertical adjustment of the mirror. The mirror should be adjusted to center on the view through the rear window.

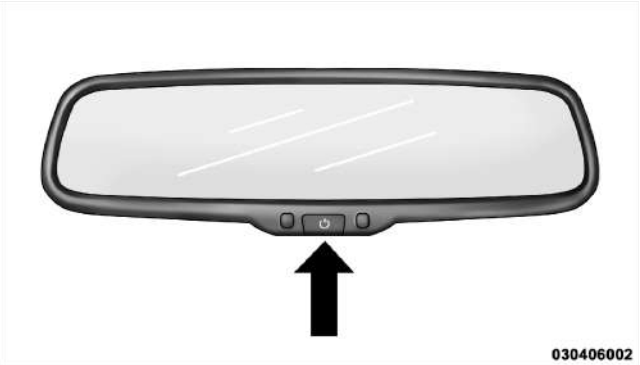
Headlight glare can be reduced by moving the small control under the mirror to the night position (toward the rear of the vehicle). The mirror should be adjusted while set in the day position (toward the windshield).



Adjusting Rearview Mirror

Automatic Dimming Mirror — If Equipped

This mirror automatically adjusts for headlight glare from vehicles behind you. You can turn the feature on or off by pressing the button at the base of the mirror. A light next to the button will illuminate to indicate when the dimming feature is activated.



Automatic Dimming Mirror

CAUTION!

To avoid damage to the mirror during cleaning, never spray any cleaning solution directly onto the mirror. Apply the solution onto a clean cloth and wipe the mirror clean.

Outside Mirrors

To receive maximum benefit, adjust the outside mirror(s) to center on the adjacent lane of traffic with a slight overlap of the view obtained on the inside mirror.

WARNING!

Vehicles and other objects seen in the passenger side convex mirror will look smaller and farther away than they really are. Relying too much on your passenger side mirror could cause you to collide with another vehicle or other object. Use your inside mirror when judging the size or distance of a vehicle seen in the passenger side mirror.

Outside Mirrors Folding Feature — If Equipped

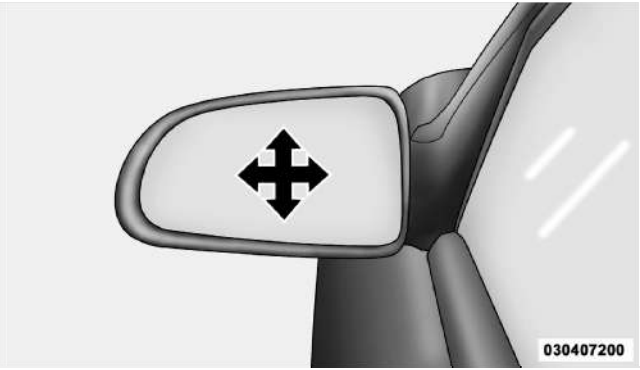
Folding outside mirrors are hinged, and may be moved either forward or rearward, to resist damage.

Power Mirrors

The power mirror controls are located on the driver's door trim panel.

Power Mirror Switch

To adjust a mirror, turn the control wand toward the left or right mirror positions indicated. Tilt the control wand in the direction you want the mirror to move.



Mirror Directions

When you are finished adjusting the mirror, turn the control to the center position to prevent accidentally moving a mirror.

WARNING!

Vehicles and other objects seen in the passenger side convex mirror will look smaller and farther away than they really are. Relying too much on your passenger side mirror could cause you to collide with another vehicle or other object. Use your inside mirror when judging the size or distance of a vehicle seen in the passenger side mirror.

Uconnect™ Phone — IF EQUIPPED

Uconnect™ Phone is a voice-activated, hands-free, in-vehicle communications system. Uconnect™ Phone allows you to dial a phone number with your mobile phone using simple voice commands (e.g., "Call" ... "Mike" ... "Work" or "Dial" ... "248-555-1212"). Your mobile phone's audio is transmitted through your vehicle's audio system; the system will automatically mute your radio when using the Uconnect™ Phone.

NOTE: The Uconnect™ Phone requires a mobile phone equipped with the Bluetooth® "Hands-Free Profile", Version 0.96 or higher. See the Uconnect™ website for supported phones.

For Uconnect™ customer support, visit the following websites:

- www.chrysler.com/uconnect
- www.dodge.com/uconnect
- www.jeep.com/uconnect
- or call 1–877–855–8400

Uconnect™ Phone allows you to transfer calls between the system and your mobile phone as you enter or exit your vehicle and enables you to mute the system's microphone for private conversation.

The Uconnect™ Phone is driven through your Bluetooth® "Hands-Free Profile" mobile phone. Uconnect™ features Bluetooth® technology - the global standard that enables different electronic devices to connect to each other without wires or a docking station, so Uconnect™ Phone works no matter where you stow your mobile phone (be it your purse, pocket, or briefcase), as long as your phone is turned on and has been paired to the vehicle's Uconnect™ Phone. The Uconnect™ Phone allows up to seven mobile phones to be linked to the system. Only one linked (or paired) mobile phone can be used with the system at a time. The system is available in English, Spanish, or French languages.

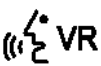
WARNING!

Any voice commanded system should be used only in safe driving conditions following local laws and phone use. All attention should be kept on the roadway ahead. Failure to do so may result in a collision causing serious injury or death.

Uconnect™ Phone Button

The radio or steering wheel controls (if equipped) will contain the two control buttons (Uconnect™ Phone button and Voice Command VR button) that will enable you to access the system. When you press the button you will hear the word Uconnect™ followed by a BEEP. The beep is your signal to give a command.

Voice Command Button



Actual button location may vary with the radio. The individual buttons are described in the "Operation" section.

The Uconnect™ Phone can be used with any Hands-Free Profile certified Bluetooth® mobile phone. See the Uconnect™ website for supported phones. Refer to your mobile service provider or the phone manufacturer for details.

The Uconnect™ Phone is fully integrated with the vehicle's audio system. The volume of the Uconnect™ Phone can be adjusted either from the radio volume control knob or from the steering wheel radio control (right switch), if so equipped.

The radio display will be used for visual prompts from the Uconnect™ Phone such as "CELL" or caller ID on certain radios.

Operation

Voice commands can be used to operate the Uconnect™ Phone and to navigate through the Uconnect™ Phone menu structure. Voice commands are required after most Uconnect™ Phone prompts. You will be prompted for a specific command and then guided through the available options.

- Prior to giving a voice command, one must wait for the beep, which follows the "Ready" prompt or another prompt.

- For certain operations, compound commands can be used. For example, instead of saying “Setup” and then “Phone Pairing”, the following compound command can be said: “Setup Phone Pairing.”
- For each feature explanation in this section, only the compound form of the voice command is given. You can also break the commands into parts and say each part of the command when you are asked for it. For example, you can use the compound form voice command “Phonebook New Entry”, or you can break the compound form command into two voice commands: “Phonebook” and “New Entry”. Please remember, the Uconnect™ Phone works best when you talk in a normal conversational tone, as if speaking to someone sitting a few feet/meters away from you.

Voice Command Tree

Refer to “Voice Tree” in this section.

Help Command

If you need assistance at any prompt, or if you want to know your options at any prompt, say “Help” following the beep. The Uconnect™ Phone will play all the options at any prompt if you ask for help.

To activate the Uconnect™ Phone from idle, simply press the button and follow the audible prompts for directions. All Uconnect™ Phone sessions begin with a press of the button on the radio control head.

Cancel Command

At any prompt, after the beep, you can say “Cancel” and you will be returned to the main menu. However, in a few instances the system will take you back to the previous menu.

Pair (Link) Uconnect™ Phone to a Mobile Phone

To begin using your Uconnect™ Phone, you must pair your compatible Bluetooth® enabled mobile phone.

To complete the pairing process, you will need to reference your mobile phone Owner's Manual. The Uconnect™ website may also provide detailed instructions for pairing.

The following are general phone to Uconnect™ Phone pairing instructions:

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Setup Phone Pairing".
- When prompted, after the beep, say "Pair a Phone" and follow the audible prompts.
- You will be asked to say a four-digit Personal Identification Number (PIN), which you will later need to enter into your mobile phone. You can enter any four-digit PIN. You will not need to remember this PIN after the initial pairing process.
- For identification purposes, you will be prompted to give the Uconnect™ Phone a name for your mobile phone. Each mobile phone that is paired should be given a unique phone name.
- You will then be asked to give your mobile phone a priority level between one and seven, with one being the highest priority. You can pair up to seven mobile phones to your Uconnect™ Phone. However, at any given time, only one mobile phone can be in use, connected to your Uconnect™ System. The priority allows the Uconnect™ Phone to know which mobile phone to use if multiple mobile phones are in the vehicle at the same time. For example, if priority three and priority five phones are present in the vehicle, the Uconnect™ Phone will use the priority three mobile phone when you make a call. You can select to use a lower priority mobile phone at any time (refer to "Advanced Phone Connectivity" in this section).

Dial by Saying a Number

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Dial".
- The system will prompt you to say the number you want to call.
- For example, you can say "234-567-8901".
- The Uconnect™ Phone will confirm the phone number and then dial. The number will appear in the display of certain radios.

Call by Saying a Name

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Call".
- The system will prompt you to say the name of the person you want to call.
- After the "Ready" prompt and the following beep, say the name of the person you want to call. For example, you can say "John Doe", where John Doe is a previously stored name entry in the Uconnect™ phonebook or downloaded phonebook. To learn how to store a name in the phonebook, refer to "Add Names to Your Uconnect™ Phonebook", in the phonebook.
- The Uconnect™ system will confirm the name and then dial the corresponding phone number, which may appear in the display of certain radios.

Add Names to Your Uconnect™ Phonebook

NOTE: Adding names to the Uconnect™ Phonebook is recommended when the vehicle is not in motion.

- Press the button to begin.

- After the “Ready” prompt and the following beep, say “Phonebook New Entry”.
- When prompted, say the name of the new entry. Use of long names helps the Voice Command and it is recommended. For example, say “Robert Smith” or “Robert” instead of “Bob”.
- When prompted, enter the number designation (e.g., “Home”, “Work”, “Mobile”, or “Other”). This will allow you to store multiple numbers for each phonebook entry, if desired.
- When prompted, recite the phone number for the phonebook entry that you are adding.

After you are finished adding an entry into the phonebook, you will be given the opportunity to add more phone numbers to the current entry or to return to the main menu.

The Uconnect™ Phone will allow you to enter up to 32 names in the phonebook with each name having up to four associated phone numbers and designations. Each language has a separate 32-name phonebook accessible only in that language. In addition, if equipped and supported by your phone, Uconnect™ Phone automatically downloads your mobile phone’s phonebook.

Phonebook Download – Automatic Phonebook Transfer From Mobile Phone

If equipped and specifically supported by your phone, Uconnect™ Phone automatically downloads names (text names) and number entries from your mobile phone’s phonebook. Specific Bluetooth® Phones with Phone Book Access Profile may support this feature. See Uconnect™ website for supported phones.

- To call a name from downloaded (or Uconnect™) Phonebook, follow the procedure in “Call by Saying a Name” section.

- Automatic download and update, if supported, begins as soon as the Bluetooth® wireless phone connection is made to the Uconnect™ Phone, for example, after you start the vehicle.
- A maximum of 1000 entries per phone will be downloaded and updated every time a phone is connected to the Uconnect™ Phone.
- Depending on the maximum number of entries downloaded, there may be a short delay before the latest downloaded names can be used. Until then, if available, the previously downloaded phonebook is available for use.
- Only the phonebook of the currently connected mobile phone is accessible.
- Only the mobile phone's phonebook is downloaded. SIM card phonebook is not part of the Mobile phonebook.
- This downloaded phonebook cannot be edited or deleted on the Uconnect™ Phone. These can only be edited on the mobile phone. The changes are transferred and updated to Uconnect™ Phone on the next phone connection.

Phonebook Download — Single Entry

If equipped and supported by your phone, Uconnect™ Phone also allows the user to download entries one at a time from their phone via Bluetooth®. To use this feature, press the button and say "Phonebook Download." The system prompts, "Ready to accept "V" card entry via Bluetooth®…" The system is now ready to accept a single phonebook entry from your phone using the Bluetooth® Object Exchange Profile (OBEX). Please see your phone Owner's Manual for specific instructions on how to send these entries from your phone.

NOTE:

- The phone handset must support Bluetooth® OBEX transfers of phonebook entries to use this feature.
- Some phones cannot send phonebook entries if they are already connected to any system via Bluetooth®, and you may see a message on the phone display that the Bluetooth® link is busy. In this case, the user must first disconnect or drop the Bluetooth® connection to the Uconnect™ Phone, and then send the address book entry via Bluetooth®. Please see your phone Owner's Manual for specific instructions on how to drop the Bluetooth® connection.
- If the phonebook entry is longer than 24 characters, it will only use the first 24 characters.

Edit Uconnect™ Phonebook Entries

NOTE:

- Editing names in the phonebook is recommended when the vehicle is not in motion.
- Automatic downloaded phonebook entries cannot be deleted or edited.
- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Phonebook Edit".
- You will then be asked for the name of the phonebook entry that you wish to edit.
- Next, choose the number designation (home, work, mobile, or other) that you wish to edit.
- When prompted, recite the new phone number for the phonebook entry that you are editing.

After you are finished editing an entry in the phonebook, you will be given the opportunity to edit another entry in the phonebook, call the number you just edited, or return to the main menu.

"Phonebook Edit" can be used to add another phone number to a name entry that already exists in the phonebook. For example, the entry John Doe may have a mobile and a home number, but you can add "John Doe's" work number later using the "Phonebook Edit" feature.

Delete Uconnect™ Phonebook Entry

NOTE: Editing phonebook entries is recommended when the vehicle is not in motion.

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Phonebook Delete".
- After you enter the Phonebook Delete menu, you will then be asked for the name of the entry that you wish to delete. You can either say the name of a phonebook entry that you wish to delete or you can say "List Names" to hear a list of the entries in the phonebook from which you choose. To select one of the entries from the list, press the VR button while the Uconnect™ Phone is playing the desired entry and say "Delete".
- After you enter the name, the Uconnect™ Phone will ask you which designation you wish to delete: home, work, mobile, other, or all. Say the designation you wish to delete.
- Note that only the phonebook entry in the current language is deleted.
- Automatic downloaded phonebook entries cannot be deleted or edited.

Delete/Erase "All" Uconnect™ Phonebook Entries

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Phonebook Erase All".
- The Uconnect™ Phone will ask you to verify that you wish to delete all the entries from the phonebook.
- After confirmation, the phonebook entries will be deleted.
- Note that only the phonebook in the current language is deleted.
- Automatic downloaded phonebook entries cannot be deleted or edited.

List All Names in the Uconnect™ Phonebook

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Phonebook List Names".
- The Uconnect™ Phone will play the names of all the phonebook entries, including the downloaded phonebook entries, if available.
- To call one of the names in the list, press the VR button during the playing of the desired name, and say "Call".

NOTE: The user can also exercise "Edit" or "Delete" operations at this point.

- The Uconnect™ Phone will then prompt you as to the number designation you wish to call.
- The selected number will be dialed.

Phone Call Features

The following features can be accessed through the Uconnect™ Phone if the feature(s) are available on your mobile service plan. For example, if your mobile service plan provides three-way calling, this feature can be accessed through the Uconnect™ Phone. Check with your mobile service provider for the features that you have.

Answer or Reject an Incoming Call - No Call Currently in Progress

When you receive a call on your mobile phone, the Uconnect™ Phone will interrupt the vehicle audio system, if on, and will ask if you would like to answer the call. Press the button to accept the call. To reject the call, press and hold the button until you hear a single beep, indicating that the incoming call was rejected.

Answer or Reject an Incoming Call - Call Currently in Progress

If a call is currently in progress and you have another incoming call, you will hear the same network tones for call waiting that you normally hear when using your mobile phone. Press the button to place the current call on hold and answer the incoming call.

NOTE: The Uconnect™ Phone compatible phones in the market today do not support rejecting an incoming call when another call is in progress. Therefore, the user can only answer an incoming call or ignore it.

Making a Second Call While Current Call is in Progress

To make a second call while you are currently on a call, press the VR button and say “Dial” or “Call” followed by the phone number or phonebook entry you wish to call. The first call will be on hold while the second call is

in progress. To go back to the first call, refer to "Toggling Between Calls" in this section. To combine two calls, refer to "Conference Call" in this section.

Place/Retrieve a Call From Hold

To put a call on hold, press the button until you hear a single beep. This indicates that the call is on hold. To bring the call back from hold, press and hold the button until you hear a single beep.

Toggling Between Calls

If two calls are in progress (one active and one on hold), press the button until you hear a single beep, indicating that the active and hold status of the two calls have switched. Only one call can be placed on hold at a time.

Conference Call

When two calls are in progress (one active and one on hold), press and hold the button until you hear a double beep indicating that the two calls have been joined into one conference call.

Three-Way Calling

To initiate three-way calling, press the VR button while a call is in progress, and make a second phone call, as described under "Making a Second Call While Current Call is in Progress". After the second call has established, press and hold the button until you hear a double beep, indicating that the two calls have been joined into one conference call.

Call Termination

To end a call in progress, momentarily press the button. Only the active call(s) will be terminated and if there is a call on hold, it will become the new active call. If the active call is terminated by the phone far end, a call

on hold may not become active automatically. This is cell phone-dependent. To bring the call back from hold, press and hold the button until you hear a single beep.

Redial

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Redial".
- The Uconnect™ Phone will call the last number that was dialed from your mobile phone.

NOTE: This may not be the last number dialed from the Uconnect™ Phone.

Call Continuation

Call continuation is the progression of a phone call on the Uconnect™ Phone after the vehicle ignition key has been switched to OFF. Call continuation functionality available on the vehicle can be any one of three types:

- After the ignition key is switched to OFF, a call can continue on the Uconnect™ Phone either until the call ends, or until the vehicle battery condition dictates cessation of the call on the Uconnect™ Phone and transfer of the call to the mobile phone.
- After the ignition key is switched to OFF, a call can continue on the Uconnect™ Phone for a certain duration, after which the call is automatically transferred from the Uconnect™ Phone to the mobile phone.
- An active call is automatically transferred to the mobile phone after the ignition key is switched to OFF.

Uconnect™ Phone Features

Language Selection

To change the language that the Uconnect™ Phone is using:

- Press the button to begin.

- After the "Ready" prompt and the following beep, say the name of the language you wish to switch to English, Espanol, or Francais.
- Continue to follow the system prompts to complete the language selection.

After selecting one of the languages, all prompts and voice commands will be in that language.

NOTE: After every Uconnect™ Phone language change operation, only the language-specific 32-name phonebook is usable. The paired phone name is not language-specific and usable across all languages.

Emergency Assistance

If you are in an emergency and the mobile phone is reachable:

- Pick up the phone and manually dial the emergency number for your area.

If the phone is not reachable and the Uconnect™ Phone is operational, you may reach the emergency number as follows:

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Emergency" and the Uconnect™ Phone will instruct the paired mobile phone to call the emergency number. This feature is supported in the U.S., Canada, and Mexico.

NOTE:

- The emergency number dialed is based on the country where the vehicle is purchased (911 for the U.S. and Canada and 060 for Mexico). The number dialed may not be applicable with the available mobile service and area.

- If supported, this number may be programmable on some systems. To do this, press the button and say “Setup”, followed by “Emergency”.
- The Uconnect™ Phone does slightly lower your chances of successfully making a phone call as to that for the mobile phone directly.

WARNING!

To use your Uconnect™ Phone System in an emergency, your mobile phone must be:
- **turned on,**
- **paired to the Uconnect™ System,**
- **and have network coverage.**

Towing Assistance
If you need towing assistance:

- Press the button to begin.
- After the “Ready” prompt and the following beep, say “Towing Assistance”.

NOTE:
- The towing assistance number dialed is based on the country where the vehicle is purchased (1-800-528-2069 for the U.S., 1-877-213-4525 for Canada, 55-14-3454 for Mexico City and 1-800-712-3040 for outside Mexico City in Mexico). Please refer to the 24-Hour ″Towing Assistance″ coverage details on the DVD in the Warranty Information Booklet and the 24-Hour Towing Assistance references.
- If supported, this number may be programmable on some systems. To do this, press the button and say “Setup”, followed by “Towing Assistance”.

Paging
To learn how to page, refer to “Working with Automated Systems”. Paging works properly except for pagers of

certain companies, which time out a little too soon to work properly with the Uconnect™ Phone.

Voice Mail Calling

To learn how to access your voice mail, refer to "Working with Automated Systems".

Working with Automated Systems

This method is used in instances where one generally has to press numbers on the mobile phone keypad while navigating through an automated telephone system.

You can use your Uconnect™ Phone to access a voice mail system or an automated service, such as a paging service or automated customer service line. Some services require immediate response selection. In some instances, that may be too quick for use of the Uconnect™ Phone.

When calling a number with your Uconnect™ Phone that normally requires you to enter in a touch-tone sequence on your mobile phone keypad, you can press the VR button and say the sequence you wish to enter, followed by the word "Send". For example, if required to enter your PIN followed with a pound, (3 7 4 6 #), you can press the VR button and say, "3 7 4 6 # Send". Saying a number, or sequence of numbers, followed by "Send", is also to be used for navigating through an automated customer service center menu structure, and to leave a number on a pager.

You can also send stored Uconnect™ phonebook entries as tones for fast and easy access to voice mail and pager entries. To use this feature, dial the number you wish to call and then press the VR button and say, "Send." The system will prompt you to enter the name or number and say the name of the phonebook entry you wish to send. The Uconnect™ Phone will then send the corresponding phone number associated with the phonebook entry, as tones over the phone.

NOTE:

- You may not hear all of the tones due to mobile phone network configurations. This is normal.
- Some paging and voice mail systems have system time out settings that are too short and may not allow the use of this feature.

Barge In - Overriding Prompts

The "Voice Command" button can be used when you wish to skip part of a prompt and issue your voice command immediately. For example, if a prompt is asking "Would you like to pair a phone, clear a...," you could press the VR button and say, "Pair a Phone" to select that option without having to listen to the rest of the voice prompt.

Turning Confirmation Prompts ON/OFF

Turning confirmation prompts off will stop the system from confirming your choices (e.g., the Uconnect™ Phone will not repeat a phone number before you dial it).

- Press the button to begin.
- After the "Ready" prompt and the following beep, say one of the following:
  - "Setup Confirmation Prompts On"
  - "Setup Confirmation Prompts Off"
  - Setup Confirmation Prompts Yes/No"

The Uconnect™ Phone will play the current confirmation prompt status and you will be given the choice to change it.

Phone and Network Status Indicators

If available on the radio and/or on a premium display such as the instrument panel cluster, and supported by your mobile phone, the Uconnect™ Phone will provide notification to inform you of your phone and network status when you are attempting to make a phone call

using Uconnect™ Phone. The status is given for network signal strength, phone battery strength, etc.

Dialing Using the Mobile Phone Keypad

You can dial a phone number with your mobile phone keypad and still use the Uconnect™ Phone (while dialing via the mobile phone keypad, the user must exercise caution and take precautionary safety measures). By dialing a number with your paired Bluetooth® mobile phone, the audio will be played through your vehicle's audio system. The Uconnect™ Phone will work the same as if you dial the number using Voice Command.

NOTE: Certain brands of mobile phones do not send the dial ring to the Uconnect™ Phone to play it on the vehicle audio system, so you will not hear it. Under this situation, after successfully dialing a number the user may feel that the call did not go through even though the call is in progress. Once your call is answered, you will hear the audio.

Mute/Un-Mute (Mute OFF)

When you mute the Uconnect™ Phone, you will still be able to hear the conversation coming from the other party, but the other party will not be able to hear you. In order to mute the Uconnect™ Phone:

- Press the VR button.
- Following the beep, say "Mute".

In order to un-mute the Uconnect™ Phone:

- Press the VR button.
- Following the beep, say "Mute off".

Advanced Phone Connectivity

Transfer Call to and from Mobile Phone

The Uconnect™ Phone allows ongoing calls to be transferred from your mobile phone to the Uconnect™ Phone without terminating the call. To transfer an ongoing call

from your Uconnect™ Phone paired mobile phone to the Uconnect™ Phone or vice versa, press the VR button and say "Transfer Call".

Connect or Disconnect Link Between the Uconnect™ Phone and Mobile Phone

Your mobile phone can be paired with many different electronic devices, but can only be actively "connected" with one electronic device at a time.

If you would like to connect or disconnect the Bluetooth® connection between a Uconnect™ Phone paired mobile phone and the Uconnect™ Phone, follow the instructions described in your mobile phone User's Manual.

List Paired Mobile Phone Names

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Setup Phone Pairing".
- When prompted, say "List Phones".
- The Uconnect™ Phone will play the phone names of all paired mobile phones in order from the highest to the lowest priority. To "select" or "delete" a paired phone being announced, press the VR button and say "Select" or "Delete". Also, see the next two sections for an alternate way to "select" or "delete" a paired phone.

Select Another Mobile Phone

This feature allows you to select and start using another phone paired with the Uconnect™ Phone.

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Setup Select Phone" and follow the prompts.
- You can also press the button at any time while the list is being played, and then choose the phone that you wish to select.

- The selected phone will be used for the next phone call. If the selected phone is not available, the Uconnect™ Phone will return to using the highest priority phone present in or near (approximately within 30 ft (9 m)) the vehicle.

Delete Uconnect™ Phone Paired Mobile Phones

- Press the button to begin.
- After the "Ready" prompt and the following beep, say "Setup Phone Pairing".
- At the next prompt, say "Delete" and follow the prompts.
- You can also press the button at any time while the list is being played, and then choose the phone you wish to delete.

Things You Should Know About Your Uconnect™ Phone

Uconnect™ Phone Tutorial

To hear a brief tutorial of the system features, press the button and say "Uconnect™ Tutorial."

Voice Training

For users experiencing difficulty with the system recognizing their voice commands or numbers, the Uconnect™ Phone Voice Training feature may be used. To enter this training mode, follow one of the two following procedures:

From outside the Uconnect™ Phone mode (e.g., from radio mode):

- Press and hold the VR button for five seconds until the session begins, or,
- Press the VR button and say the "Voice Training, System Training, or Start Voice Training" command.

You can either press the Uconnect™ Phone button to restore the factory setting or repeat the words and phrases when prompted by the Uconnect™ Phone. For best results, the Voice Training session should be completed when the vehicle is parked with the engine running, all windows closed, and the blower fan switched off.

This procedure may be repeated with a new user. The system will adapt to the last trained voice only.

Reset

- press the button.
- After the "Ready" prompt, and the following beep, say "Setup", then "Reset".

This will delete all phone pairing, phone book entries, and other settings in all language modes. The System will prompt you before resetting to factory settings.

Voice Command

- For best performance, adjust the rearview mirror to provide at least ½ in (1 cm) gap between the overhead console (if equipped) and the mirror.
- Always wait for the beep before speaking.
- Speak normally, without pausing, just as you would speak to a person sitting a few feet/meters away from you.
- Make sure that no one other than you is speaking during a Voice Command period.
- Performance is maximized under:
  - low-to-medium blower setting,
  - low-to-medium vehicle speed,
  - low road noise,
  - smooth road surface,

  - fully closed windows,
  - dry weather condition.
- Even though the system is designed for users speaking in North American English, French, and Spanish accents, the system may not always work for some.
- When navigating through an automated system such as voice mail, or when sending a page, at the end of speaking the digit string, make sure to say “Send”.
- Storing names in the phonebook when the vehicle is not in motion is recommended.
- It is not recommended to store similar sounding names in the Uconnect™ Phonebook.
- Phonebook (Downloaded and Uconnect™ Phone Local) name recognition rate is optimized when the entries are not similar.
- Numbers must be spoken in single digits. “800” must be spoken “eight-zero-zero” not “eight hundred”.
- You can say “O” (letter “O”) for “0” (zero).
- Even though international dialing for most number combinations is supported, some shortcut dialing number combinations may not be supported.
- In a convertible vehicle, system performance may be compromised with the convertible top down.

Far End Audio Performance

- Audio quality is maximized under:
  - low-to-medium blower setting,
  - low-to-medium vehicle speed,
  - low road noise,
  - smooth road surface,

- fully closed windows,
- dry weather conditions, and
- operation from the driver's seat.

- Performance, such as audio clarity, echo, and loudness to a large degree rely on the phone and network, and not the Uconnect™ Phone.
- Echo at the phone far end can sometimes be reduced by lowering the in-vehicle audio volume.
- In a convertible vehicle, system performance may be compromised with the convertible top down.

Recent Calls

If your phone supports "Automatic Phonebook Download", Uconnect™ Phone can list your Outgoing, Incoming and Missed Calls.

SMS

Uconnect™ Phone can read or send new messages on your phone.

Read Messages:

If you receive a new text message while your phone is connected to Uconnect™ Phone, an announcement will be made to notify you that you have a new text message. If you wish to hear the new message:

- Press the button.
- After the "Ready" prompt and the following beep, say "SMS Read" or "Read Messages."
- Uconnect™ Phone will play the new text message for you.

After reading a message, you can "Reply" or "Forward" the message using Uconnect™ Phone.

Send Messages:
You can send messages using Uconnect™ Phone. To send a new message:

- Press the button.
- After the "Ready" prompt and the following beep, say "SMS Send" or "Send Messages."
- You can either say the message you wish to send or say "List Messages." There are 20 preset messages.

To send a message, press the VR button while the system is listing the message and say "Send."

Uconnect™ Phone will prompt you to say the name or number of the person you wish to send the message to.

List of Preset Messages:

1. Yes
2. No
3. Where are you?
4. I need more direction.
5. L O L
6. Why
7. I love you
8. Call me
9. Call me later
10. Thanks
11. See You in 15 minutes
12. I am on my way
13. I'll be late
14. Are you there yet?
15. Where are we meeting?

16. Can this wait?
17. Bye for now
18. When can we meet
19. Send number to call
20. Start without me

Turn SMS Incoming Announcement ON/OFF

Turning the SMS Incoming Announcement OFF will stop the system from announcing the new incoming messages.

- Press the button.
- After the "Ready" prompt and the following beep, say "Setup, Incoming Message Announcement," you will then be given a choice to change it.

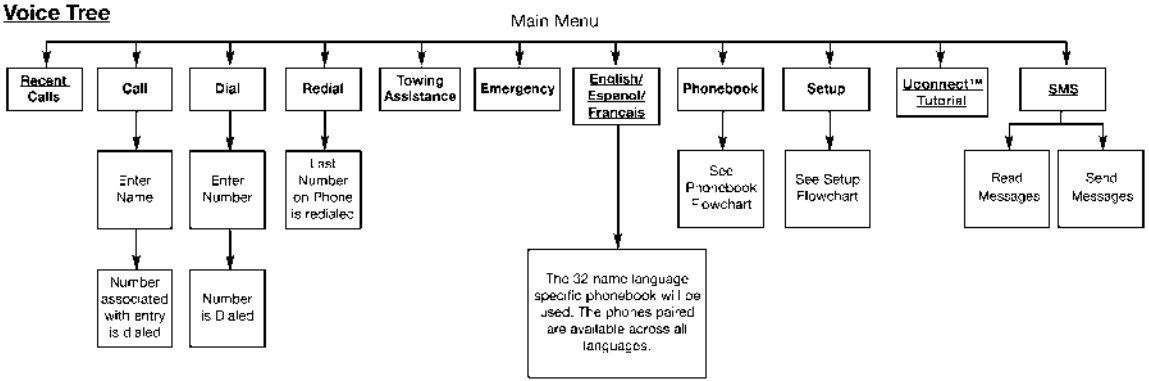
Bluetooth® Communication Link

Mobile phones have been found to lose connection to the Uconnect™ Phone. When this happens, the connection can generally be reestablished by switching the phone off/on. Your mobile phone is recommended to remain in Bluetooth® ON mode.

Power-Up

After switching the ignition key from OFF to either the ON or ACC position, or after a language change, you must wait at least fifteen seconds prior to using the system.

Voice Tree



Note: Available Voice commands are shown in bold face and are underlined.

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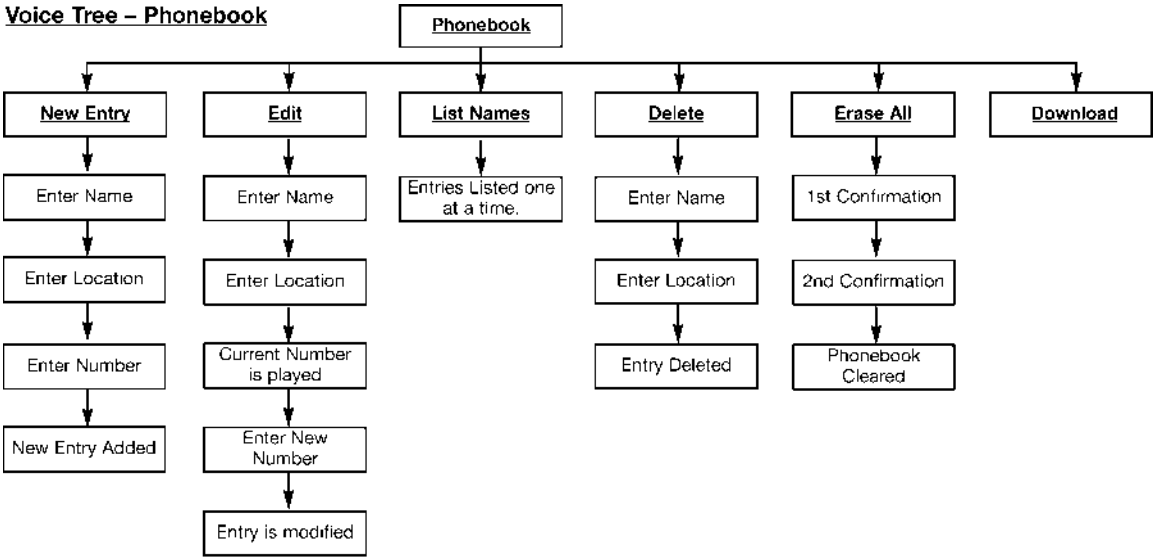
Voice Tree – Phonebook



Note: **Available Voice commands are shown in bold face and are underlined.**

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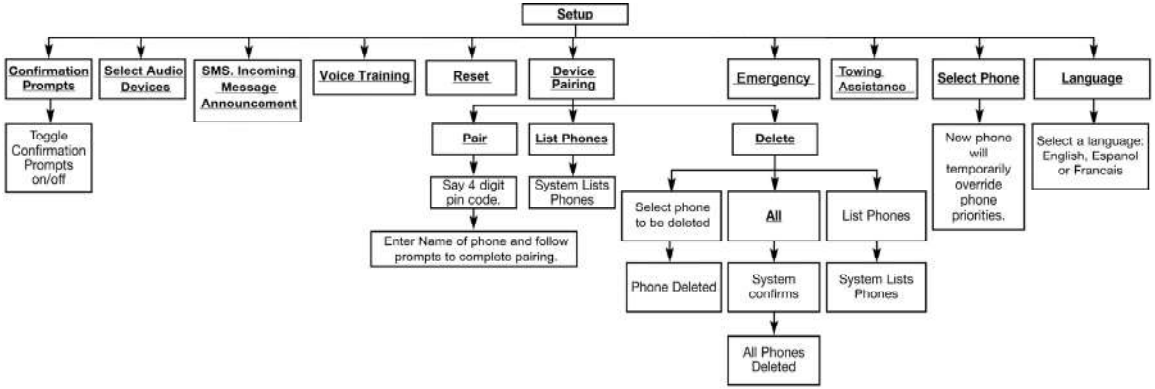
Voice Tree – Setup



Note: Available Voice commands are shown in bold face and are underlined. 030605540

Voice Commands	
Primary	Alternate(s)
zero	
one	
two	
three	
four	
five	
six	
seven	
eight	
nine	
star (*)	
plus (+)	
pound (#)	
add location	
all	

Voice Commands	
Primary	Alternate(s)
call	
cancel	
confirmation prompts	
continue	
delete	
dial	
download	
edit	
emergency	
English	
erase all	
Espanol	
Francais	
help	
home	

Voice Commands	
Primary	Alternate(s)
language	
list names	
list phones	
mobile	
mute	
mute off	
new entry	
no	
pager	
pair a phone	
phone pairing	pairing
phonebook	phone book
previous	
record again	
redial	

Voice Commands	
Primary	Alternate(s)
return to main menu	return or main menu
select phone	select
send	
set up	phone settings or phone set up
towing assistance	
transfer call	
Uconnect™ Tutorial	
try again	
voice training	
work	
yes	

General Information

This device complies with Part 15 of the FCC rules and RSS 210 of Industry Canada. Operation is subject to the following conditions:

- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

VOICE COMMAND — IF EQUIPPED

Voice Command System Operation

This Voice Command system allows you to control your AM, FM radio, satellite radio, disc player, and a memo recorder.

NOTE: Take care to speak into the Voice Interface System as calmly and normally as possible. The ability of the Voice Interface System to recognize user voice commands may be negatively affected by rapid speaking or a raised voice level.

WARNING!

Any voice commanded system should be used only in safe driving conditions following local laws. All attention should be kept on the roadway ahead. Failure to do so may result in a collision causing serious injury or death.

When you press the Voice Command VR button, you will hear a beep. The beep is your signal to give a command.

NOTE: If you do not say a command within a few seconds, the system will present you with a list of options.

If you ever wish to interrupt the system while it lists options, press the Voice Command VR button, listen for the beep, and say your command.

Pressing the Voice Command VR button while the system is speaking is known as "barging in." The system will be interrupted, and after the beep, you can add or change commands. This will become helpful once you start to learn the options.

NOTE: At any time, you can say the words "Cancel", "Help" or "Main Menu".

These commands are universal and can be used from any menu. All other commands can be used depending upon the active application.

When using this system, you should speak clearly and at a normal speaking volume.

The system will best recognize your speech if the windows are closed, and the heater/air conditioning fan is set to low.

At any point, if the system does not recognize one of your commands, you will be prompted to repeat it.

To hear the first available Menu, press the Voice Command VR button and say "Help" or "Main Menu".

Commands

The Voice Command system understands two types of commands. Universal commands are available at all times. Local commands are available if the supported radio mode is active.

Changing the Volume

1. Start a dialogue by pressing the Voice Command VR button.

2. Say a command (e.g., “Help”).

3. Use the ON/OFF VOLUME rotary knob to adjust the volume to a comfortable level while the Voice Command system is speaking. Please note the volume setting for Voice Command is different than the audio system.

Main Menu
Start a dialogue by pressing the Voice Command VR button. You may say “Main Menu” to switch to the main menu.

In this mode, you can say the following commands:

- “Radio” (to switch to the radio mode)
- “Disc” (to switch to the disc mode)
- “Memo” (to switch to the memo recorder)
- “System Setup” (to switch to system setup)

Radio AM (or Radio Long Wave or Radio Medium Wave — If Equipped)
To switch to the AM band, say “AM” or “Radio AM”. In this mode, you may say the following commands:

- “Frequency” (to change the frequency)
- “Next Station” (to select the next station)
- “Previous Station” (to select the previous station)
- “Radio Menu” (to switch to the radio menu)
- “Main Menu” (to switch to the main menu)

Radio FM
To switch to the FM band, say “FM” or “Radio FM”. In this mode, you may say the following commands:

- “Frequency” (to change the frequency)

- “Next Station” (to select the next station)
- “Previous Station” (to select the previous station)
- “Radio Menu” (to switch to the radio menu)
- “Main Menu” (to switch to the main menu)

Satellite Radio

To switch to satellite radio mode, say “Sat” or “Satellite Radio”. In this mode, you may say the following commands:

- “Channel Number” (to change the channel by its spoken number)
- “Next Channel” (to select the next channel)
- “Previous Channel” (to select the previous channel)
- “List Channel” (to hear a list of available channels)
- “Select Name” (to say the name of a channel)
- “Radio Menu” (to switch to the radio menu)
- “Main Menu” (to switch to the main menu)

Disc

To switch to the disc mode, say “Disc”. In this mode, you may say the following commands:

- “Track” (#) (to change the track)
- “Next Track” (to play the next track)
- “Previous Track” (to play the previous track)
- “Main Menu” (to switch to the main menu)

Memo

To switch to the voice recorder mode, say "Memo". In this mode, you may say the following commands:

- "New Memo" (to record a new memo) — During the recording, you may press the Voice Command VR button to stop recording. You proceed by saying one of the following commands:
  - "Save" (to save the memo)
  - "Continue" (to continue recording)
  - "Delete" (to delete the recording)
- "Play Memos" (to play previously recorded memos) — During the playback you may press the Voice Command VR button to stop playing memos. You proceed by saying one of the following commands:
  - "Repeat" (to repeat a memo)
  - "Next" (to play the next memo)
  - "Previous" (to play the previous memo)
  - "Delete" (to delete a memo)
- "Delete All" (to delete all memos)

System Setup

To switch to system setup, you may say on of the following:

- "Change to system setup"
- "Main menu system setup"
- "Switch to system setup"
- "Change to setup"
- "Main menu setup" or
- "Switch to setup"

In this mode, you may say the following commands:

- "Language English"

- "Language French"
- "Language Spanish"
- "Tutorial"
- "Voice Training"

NOTE: Keep in mind that you have to press the Voice Command VR button first and wait for the beep before speaking the "Barge In" commands.

Voice Training

For users experiencing difficulty with the system recognizing their voice commands or numbers the Uconnect™ Voice "Voice Training" feature may be used.

1. Press the Voice Command VR button, say "System Setup" and once you are in that menu then say "Voice Training." This will train your own voice to the system and will improve recognition.

2. Repeat the words and phrases when prompted by Uconnect™ Voice. For best results, the "Voice Training" session should be completed when the vehicle is parked, engine running, all windows closed, and the blower fan switched off. This procedure may be repeated with a new user. The system will adapt to the last trained voice only.

SEATS

Seats are a part of the Occupant Restraint System of the vehicle.

WARNING!

- **It is 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.**

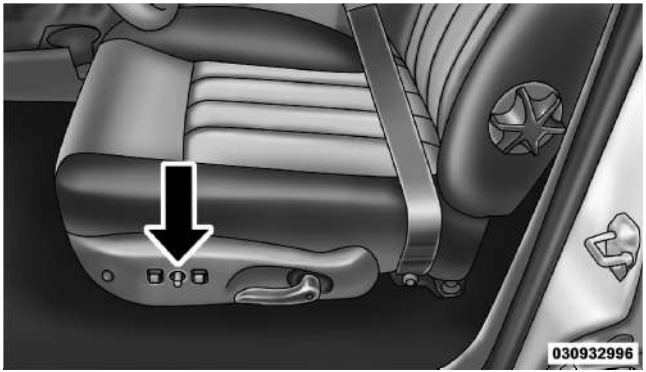
(Continued)

WARNING! (Continued)

- **Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts.**
- **Be sure everyone in your vehicle is in a seat and using a seat belt properly.**

Power Driver Seat

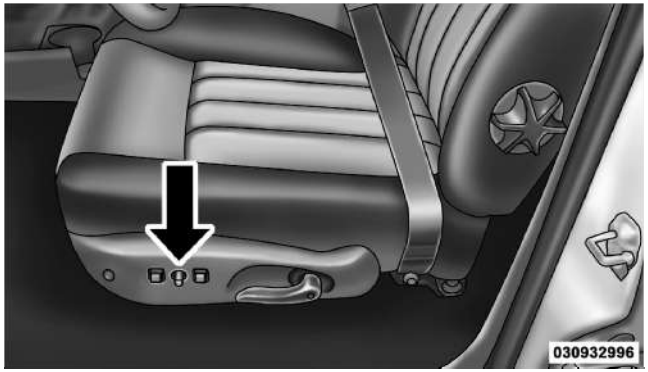
On some models the driver's seat can be equipped with six-way power. The power seat controls are located on the outboard side of the driver's seat cushion. Three switches control the seat movement.



Power Seat Switches

Adjusting the seat forward or rearward

The seat can be adjusted both forward and rearward. Push the four-way switch seat switch forward or rearward, the seat will move in the direction of the switch. Release the switch when you have reached the desired position.



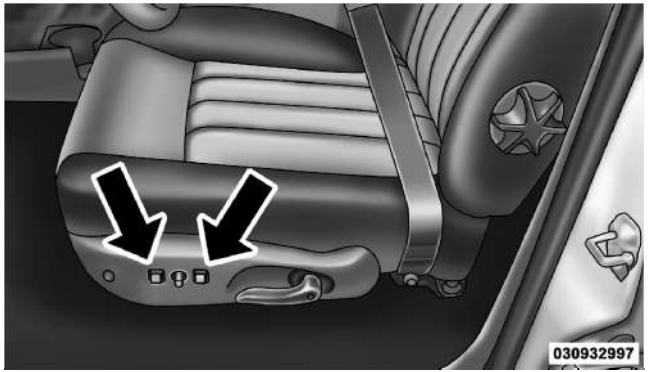
Four-Way Seat Switch

Adjusting the seat up or down

The height of the seats can be adjusted up or down. Pull upward or push downward on the four-way seat switch, the seat will move in the direction of the switch. Release the switch when you have reached the desired position.

Tilting the seat up or down

The angle of the seat cushion can be adjusted in four directions. Pull upward or push downward on the front or rear seat switches (located on either side of the four-way switch), the front or rear of the seat cushion will move in the direction of the switch. Release the switch when you have reached the desired position.



Tilt Adjustment

WARNING!

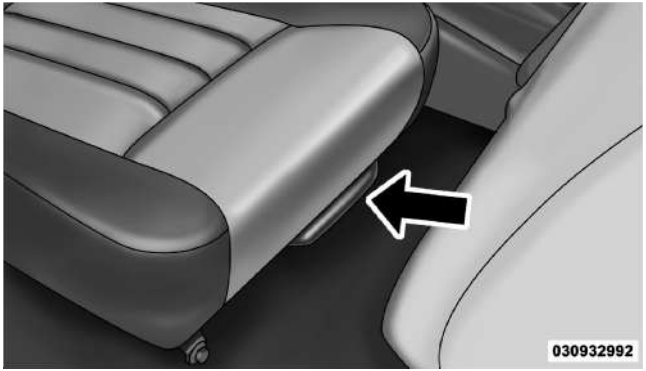
- **Adjusting a seat while driving may be dangerous. Moving a seat while driving could result in loss of control which could cause a collision and serious injury or death.**
- **Seats should be adjusted before fastening the seatbelts and while the vehicle is parked. Serious injury or death could result from a poorly adjusted seatbelt.**
- **Do not ride with the seatback reclined so that the shoulder belt is no longer resting against your chest. In a collision you could slide under the seat belt, which could result in serious injury or death.**

CAUTION!

Do not place any article under a power seat or impede its ability to move as it may cause damage to the seat controls. Seat travel may become limited if movement is stopped by an obstruction in the seat's path.

Manual Seat Adjustment

For models equipped with manual seats, the driver and passenger seats can be adjusted forward or rearward by using a bar located by the front of the seat cushion, near the floor.



Adjusting Bar

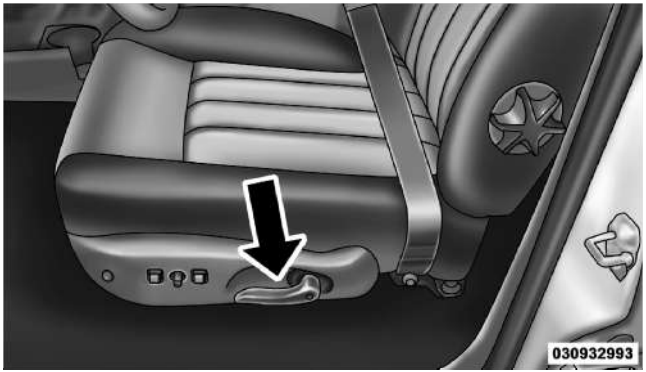
While sitting in the seat, lift up on the bar and move the seat forward or rearward. Release the bar once you have reached the desired position. Then, using body pressure, move forward and rearward on the seat to be sure that the seat adjusters have latched.

WARNING!

- **Adjusting a seat while driving may be dangerous. Moving a seat while driving could result in loss of control which could cause a collision and serious injury or death.**
- **Seats should be adjusted before fastening the seatbelts and while the vehicle is parked. Serious injury or death could result from a poorly adjusted seatbelt.**

Front Seat — Manual Recliner

To recline the seatback, lift the recline lever, located on the outboard side of the seat, lean back and release the lever when you reach the desired position.



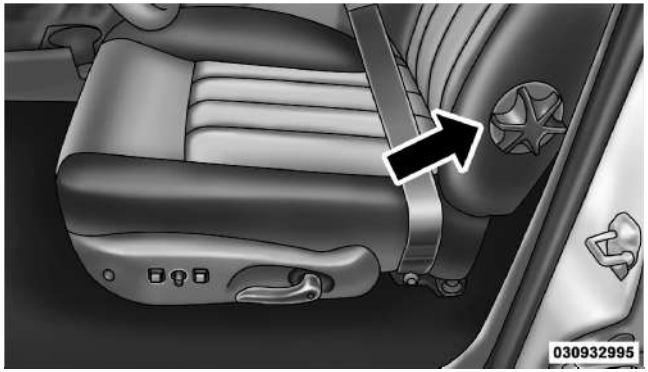
Recline Lever

WARNING!

Do not ride with the seatback reclined so that the shoulder belt is no longer resting against your chest. In a collision you could slide under the seat belt, which could result in serious injury or death.

Manual Lumbar — If Equipped

Some vehicle may be equipped with a manual lumbar support. The manual lumbar rotary control adjustment is located on the left side of the driver's seat. Rotate the knob to increase or decrease the amount of lumbar support.



Lumbar Adjustment

Heated Seats — If Equipped

On some models, the front driver and passenger seats may be equipped with heaters in both the seat cushions and seatbacks.

There are two heated seat switches that allow the driver and passenger to operate the seats independently. The controls for each seat are located on a switch bank near the bottom center of the instrument panel.

You can choose from HIGH, LOW or OFF heat settings. Amber indicator lights in each switch indicate the level of heat in use. Two indicator lights will illuminate for HIGH, one for LOW and none for OFF.

Press the switch once to select HIGH-level heating. Press the switch a second time to select LOW-level heating. Press the switch a third time to shut the heating elements OFF.

When the HIGH-level setting is selected, the heater will provide a boosted heat level during the first four minutes of operation. Then, the heat output will drop to the normal HIGH-level. If the HIGH-level setting is selected, the system will automatically switch to LOW-level after approximately 30 minutes of continuous operation. At that time, the number of illuminated LEDs changes from two to one, indicating the change. The LOW-level setting will turn OFF automatically after approximately 30 minutes.

NOTE: Once a heat setting is selected, heat will be felt within two to five minutes.

WARNING!

- **Persons who are unable to feel pain to the skin because of advanced age, chronic illness, diabetes, spinal cord injury, medication, alcohol use, exhaustion or other physical condition must exercise care when using the seat heater. It may cause burns even at low temperatures, especially if used for long periods of time.**
- **Do not place anything on the seat that insulates against heat, such as a blanket or cushion. This may cause the seat heater to overheat. Sitting in a seat that has been overheated could cause serious burns due to the increased surface temperature of the seat.**

CAUTION!

Repeated overheating of the seat could damage the heating element and/or degrade the material of the seat.

Head Restraints

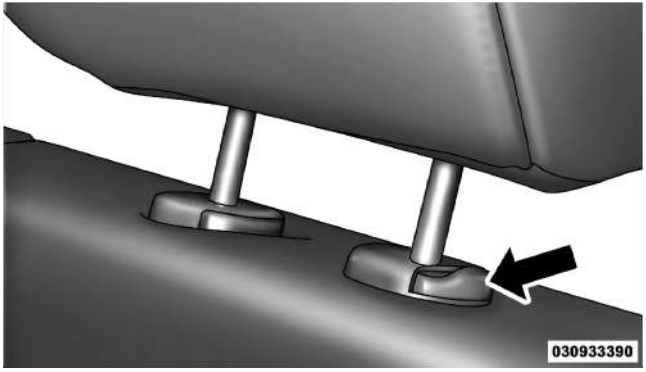
Head restraints are designed to reduce the risk of injury by restricting head movement in the event of a rear impact. Head restraints should be adjusted so that the top of the head restraint is located above the top of your ear.

WARNING!

The head restraints for all occupants must be properly adjusted prior to operating the vehicle or occupying a seat. Head restraints should never be adjusted while the vehicle is in motion. Driving a vehicle with the head restraints improperly adjusted or removed could cause serious injury or death in the event of a collision.

Front Head Restraints

To raise the head restraint, pull upward on the head restraint. To lower the head restraint, press the adjustment button, located on the base of the head restraint, and push downward on the head restraint.



Adjustment Button

Rear Head Restraints

The rear seat is equipped with nonadjustable head restraints. Refer to "Occupant Restraints" in "Things to Know Before Starting Your Vehicle" for information on child seat tether routing.

Extended Cab/Crew Cab Rear Seat

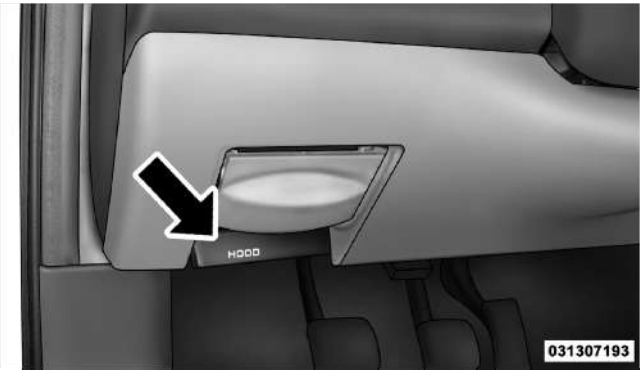
More cargo space is available by lifting up on the rear seat cushion.

The Crew Cab Rear Seat is a 60/40 split cushion and full back. Either cushion can be raised, independently.

TO OPEN AND CLOSE THE HOOD

To open the hood, two latches must be released.

1. First pull the hood release lever located under the left side of the instrument panel.



Hood Release Lever Location

2. Then push the safety latch lever up while lifting the grille with your hand. It is located at the bottom center of the grille.

Secondary Latch Location

Lift the hood, and the gas filled props will hold it open.

CAUTION!

To prevent possible damage, do not slam the hood to close it. Use a firm downward push at the center front edge of the hood to ensure that both latches engage. Never drive your vehicle unless the hood is fully closed, with both latches engaged.

WARNING!

Be sure the hood is fully latched before driving your vehicle. If the hood is not fully latched, it could open when the vehicle is in motion and block your vision. Failure to follow this warning could result in serious injury or death.

LIGHTS

The headlight switch is located on the left side of the instrument panel next to the steering wheel.

Headlight Switch Location

Headlights, Parking Lights And Panel Lights

When the headlight switch is rotated to the first position, the parking lights, taillights, side marker lights, license plate light and instrument panel lights are all turned on. The headlights will turn on when the switch is rotated to the second position.

Your vehicle is equipped with plastic headlight lenses that are lighter and less susceptible to stone breakage than glass headlights.

Plastic is not as scratch resistant as glass and therefore different lens cleaning procedures must be followed.

To minimize the possibility of scratching the lenses and reducing light output, avoid wiping with a dry cloth. To remove road dirt, wash with a mild soap solution followed by rinsing.

Do not use abrasive cleaning components, solvents, steel wool or other abrasive materials to clean the lenses.

Headlight Delay

To aid in your exit, your vehicle is equipped with a headlight delay that will leave the headlight on for 60 seconds. This delay is initiated when the ignition is turned OFF while the headlight switch is on, and then the headlight switch is cycled off. The headlights will remain on for 60 seconds. Headlight delay can be cancelled by either turning the headlight switch on then off, or by turning the ignition ON.

Lights-on Reminder

If the headlights, parking lights, courtesy lights or cargo lights are left on, after the ignition is turned OFF, a chime will sound when the driver's door is opened.

Daytime Running Lights — If Equipped

The headlights on your vehicle will illuminate when the engine is started, the transmission is out of the PARK position and the parking brake is released. This provides a constant "lights on" condition until the ignition is turned OFF. The lights illuminate at less than normal intensity. If the parking brake is applied or the transmission is in the PARK position, the Daytime Running Lights (DRL) will turn off.

Fog Lights — If Equipped

The Fog Lights are turned on by placing the headlight rotary control in the parking light or headlight position and pushing on the headlight rotary control. The fog lights will operate only when the parking lights are on, or when the vehicle headlights are on low beam. An indicator light located in the instrument cluster will illuminate when the fog lights are on. The fog lights will turn off when the switch is pushed a second time, also when the headlight switch is rotated to the off position, or the high beam is selected.

Interior Lights

Courtesy and dome lights are turned on when the front doors are opened, when the dimmer control (rotating wheel on the right side of the switch) is rotated to the second upward detent position, or if equipped, when the UNLOCK button is pressed on the Remote Keyless Entry (RKE) transmitter. When a door is open and the interior lights are on, rotating the dimmer control all the way down to the OFF detent will cause all the interior lights to go out. This is also known as the "Party" mode because it allows the doors to stay open for extended periods of time without discharging the vehicle's battery.

The brightness of the instrument panel lighting can be regulated by rotating the dimmer control up (brighter) or down (dimmer). When the headlights are on you can supplement the brightness of the odometer, trip odometer, radio and overhead console by rotating the control up until you hear a click. This feature is termed the "Parade" mode and is useful when headlights are required during the day. If the dimmer control is not in this position, the audio display may be difficult to read if the headlights are on during the daytime.

Dimmer Control

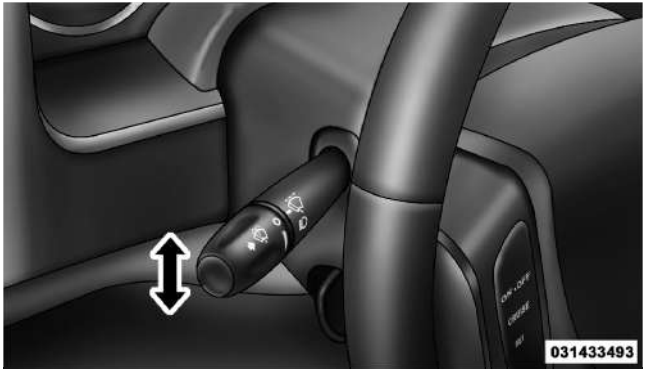
NOTE: Club Cab®/Quad Cab® models may have an optional switched dome lamp that is operated by pressing the lens.

Multifunction Lever

The multifunction lever is located on the left side of the steering column.

Turn Signals

Move the multifunction lever up or down and the arrows on each side of the instrument cluster flash to show proper operation of the front and rear turn signal lights.



Signaling Turns

NOTE:

- If either light remains on and does not flash, or there is a very fast flash rate, check for a defective outside light bulb. If an indicator fails to light when the lever is moved, it would suggest that the indicator bulb is defective.

- If a turn signal has been left on for a minimum of 1 mile (1.6 km), a continuous chime will sound.

Lane Change Assist

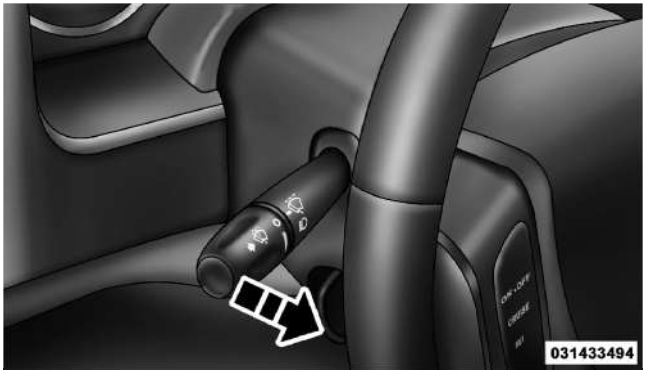
Tap the lever up or down once, without moving beyond the detent, and the turn signal (right or left) will flash three times then automatically turn off.

Flash-To-Pass

You can signal another vehicle with your headlights by partially pulling the multifunction lever toward the steering wheel. This will turn on the high beam headlights until the lever is released.

High/Low Beam Switch

Pull the multifunction lever fully toward the steering wheel to switch the headlights from high or low beam. 2



High/Low Beam

Battery Saver

To protect the life of your vehicle's battery, Load Shedding is provided for both the interior and exterior lights.

If the ignition is OFF and any door is left ajar for 15 minutes or the dimmer control is rotated upwards for 15 minutes, the interior lights will automatically turn off.

If the headlights remain on while the ignition is cycled OFF, the exterior lights will automatically turn off after eight minutes. If the headlights are turned on and left on for eight minutes while the ignition is OFF, the exterior lights will automatically turn off.

NOTE: Battery Saver mode is cancelled if the ignition is ON.

Cargo Light — If Equipped

The cargo lights are turned on by pressing on cargo button. The cargo lights will also turn on for 30 seconds when the Remote Keyless Entry (RKE) transmitter UNLOCK button is pressed, as part of the Illuminated Entry feature.

Cargo Light Switch

WINDSHIELD WIPERS AND WASHERS

The multifunction lever is located on the left side of the steering column.

Windshield Wiper/Washer Lever

Windshield Wipers

The wipers and washers are operated by a switch in the multifunction lever. Turn the end of the multifunction lever to select the desired wiper speed.

Wiper/Washer Operation

Intermittent Wiper System

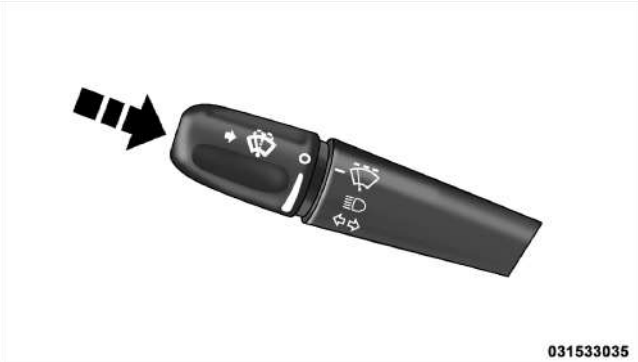
The intermittent feature of this system was designed for use when weather conditions make a single wiping cycle, with a variable pause between cycles, desirable. For maximum delay between cycles, rotate the control knob into the upper end of the delay range.

The delay interval decreases as you rotate the knob until it enters the LO continual speed position. The delay can be regulated from a maximum of about 18 seconds between cycles, to a cycle every two seconds. The delay intervals will double in duration when the vehicle speed is 10 mph (16 km) or less.

NOTE: If the front wiper is operating when the ignition is turned OFF, the wiper will automatically return to the "Park" position. When the vehicle is restarted, the wipers will resume operation.

Windshield Washers

To use the washer, push in on the washer knob on the end of the multifunction lever and hold while spray is desired. If the washer knob is depressed while in the delay range, the wiper will operate for several seconds after the washer knob is released. It will then resume the intermittent interval previously selected. If the washer knob is pushed, for a period greater than one second while in the off position, the wiper will wipe approximately three wipes after the wash knob is released.



Washer Operation

To prevent freeze-up of your windshield washer system in cold weather, select a solution or mixture that exceeds the temperature range of your climate. This rating information can be found on most washer fluid containers.

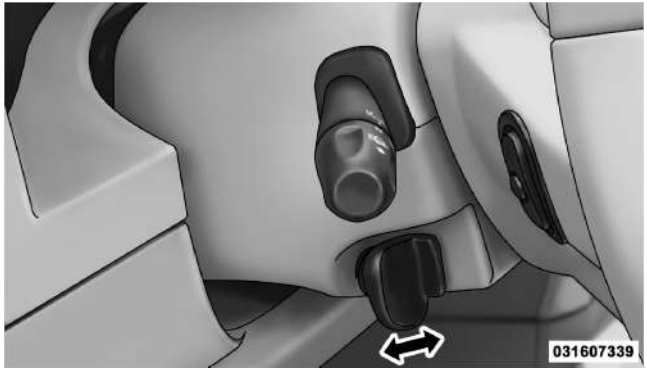
WARNING!

Sudden loss of visibility through the windshield could lead to a collision. You might not see other vehicles or other obstacles. To avoid sudden icing of the windshield during freezing weather, warm the windshield with the defroster before and during windshield washer use.

TILT STEERING COLUMN

This feature allows you to tilt the steering column upward or downward. The tilt lever is located on the steering column, below the turn signal lever.

Pull the lever toward the steering wheel to unlock the steering column. With one hand firmly on the steering wheel, move the steering column up or down, as desired. Push the lever away from the steering wheel to lock the column firmly in place.



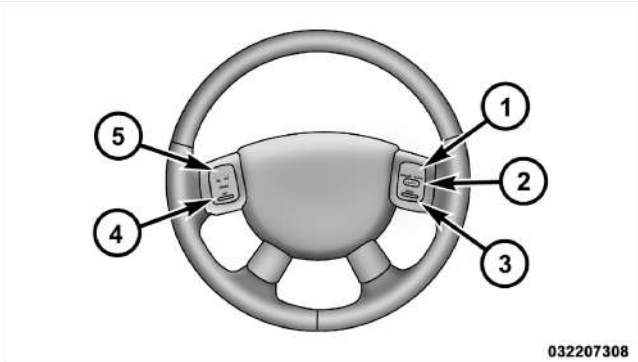
Tilt Steering Column Lever

WARNING!

Do not adjust the steering column while driving. Adjusting the steering column while driving or driving with the steering column unlocked, could cause the driver to lose control of the vehicle. Be sure the steering column is locked before driving your vehicle. Failure to follow this warning may result in serious injury or death.

ELECTRONIC SPEED CONTROL — IF EQUIPPED

The control buttons for the Electronic Speed Control are located on the steering wheel. When engaged, the Electronic Speed Control takes over the accelerator operation at speeds greater than 25 mph (40 km/h).



Electronic Speed Control Buttons

1 — Resume
2 — Cancel
3 — Decel
4 — Set
5 — On/Off

NOTE: In order to ensure proper operation, the Electronic Speed Control System has been designed to shut down if multiple Speed Control functions are operated at the same time. If this occurs, the Electronic Speed Control System can be reactivated by pushing the Electronic Speed Control ON/OFF button and resetting the desired vehicle set speed.

To Activate

Push the ON/OFF button to the ON position. In the instrument cluster, the word “CRUISE” illuminates to indicate that the system is on.

To Set a Desired Speed

Turn the Electronic Speed Control ON. When the vehicle has reached the desired speed, press and release the SET button. Release the accelerator and the vehicle will operate at the selected speed.

To Deactivate

A soft tap on the brake pedal, normal braking, or pressing the CANCEL button will deactivate the speed control without erasing the memory. Pushing the ON/OFF button to the OFF position or turning off the ignition erases the memory.

WARNING!

Leaving the Electronic Speed Control ON when not in use is dangerous. You could accidentally set the Electronic Speed Control to cause it to go faster than you want. You could lose control and have a collision. Always leave the system OFF when you are not using it.

To Resume Speed

To resume a previously set speed, push and release the RESUME button. Resume can be used at any speed above 20 mph (32 km/h).

To Vary the Speed Setting

When the Electronic Speed Control System is ON, the speed can be increased by pressing and holding the RESUME/ACCEL button. When the button is released, a new set speed will be established.

Tapping the ACCEL button once will result in a 1 mph (2 km/h) increase in set speed. Each subsequent tap of the button results in an increase of 1 mph (2 km/h).

Tapping the DECEL button once will result in a speed decrease of 1 mph (2 km/h). Each time the button is tapped, speed will decrease. For example, tapping the button three times will decrease the speed by 3 mph (4.8 km/h).

Tapping the DECEL button once will result in a 1 mph (2 km/h) decrease in set speed. Each subsequent tap of the button results in a decrease of 1 mph (2 km/h).

To Accelerate for Passing

Press the accelerator as you would normally. When the pedal is released, the vehicle will return to the set speed.

NOTE: When driving uphill, at elevations above 2,000 ft (610 m), or when the vehicle is heavily loaded (especially when towing) the vehicle may slow below the SET speed. If the vehicle speed drops below 25 mph (40 km/h), the Electronic Speed Control will automatically disengage. If this happens, you can push down on the accelerator pedal to maintain the desired speed.

Vehicles equipped with an automatic transmission may exhibit several downshifts under the above conditions. To reduce the frequency of the downshifts and to improve vehicle performance, it is advisable to lock out OVERDRIVE by pressing the TOW/HAUL button located at the end of the shift lever.

WARNING!

Electronic Speed Control can be dangerous where the system cannot maintain a constant speed. Your vehicle could go too fast for the conditions, and you could lose control and have a collision. Do not use Electronic Speed Control in heavy traffic or on roads that are winding, icy, snow-covered or slippery.

OVERHEAD CONSOLE

The overhead console has the following features:

Overhead Console

- Courtesy Lights
- Garage Door Opener — If Equipped
- Compass/Temperature Mini-Trip Computer — If Equipped

Courtesy/Reading Lights

Near the front of the console are two courtesy/reading lights.

Both lights illuminate as courtesy lights when a door is opened, when the dimmer control is rotated to the courtesy light position (fully upward position), or when the UNLOCK button is pressed on the Remote Keyless Entry (RKE) transmitter, if equipped. These lights are also operated individually as reading lights by pressing the recessed area of the corresponding lens.

NOTE: The courtesy/reading lights will remain on until the switch is pressed a second time, so be sure they have been turned off before leaving the vehicle. If the interior lights are left on after the vehicle is turned OFF, they will extinguish after approximately 10 minutes.

COMPASS/TEMPERATURE MINI-TRIP COMPUTER

This feature allows you to choose between a compass/temperature display and one of four trip conditions being monitored.

US/M Button

Use the US/M button to change the display from U.S. to metric measurement units.

US/M Button

RESET Button

Use the RESET button to reset the following displays:

- Average Fuel Economy
- Trip Odometer
- Elapsed time.

RESET Button

STEP Button

Use the STEP button to choose, or cycle through, the four trip conditions.

STEP Button

Average Fuel Economy (AVG ECO)

Displays the average fuel economy since the last reset. Average fuel economy is a running average of the amount of fuel used and the distance the vehicle has traveled. When the fuel economy is reset, the display will momentarily blank, the history will be erased, and the AVERAGE WILL CONTINUE FROM WHERE IT WAS BEFORE THE RESET. The reset value is based on a minimal amount of fuel used and the distance traveled from the previous drive cycle. The display may take several miles/kilometers for this value to change, depending upon driving habits.

Distance To Empty (DTE)

Shows the estimated distance that can be traveled with the fuel remaining in the tank. The estimated distance is determined by a weighted average of the instantaneous and average fuel economy, according to the current fuel tank level.

NOTE: The DTE is not resettable.

When Distance To Empty = LOW FUEL, the fuel gauge pointer will initially be on the red "E" marker. At this point (fuel gauge pointer on the red "E" marker), there is reserve fuel capacity, which corresponds to approximately 8% of tank volume. This reserve capacity was put in place to prevent the likelihood of customers running out of fuel when operating at maximum load conditions in areas where there aren't many gas stations.

NOTE: The Distance To Empty will remain equal to zero until the vehicle runs out of fuel or is refueled.

Trip Odometer (ODO)

This display shows the distance traveled since the last reset.

NOTE: The maximum value is approximately 6000 miles (9656 km).

Resetting of this screen will cause the trip odometer to change to zero. Then the trip odometer must be reset in order to update the trip odometer miles.

Elapsed Time (ET)

This display shows the accumulated ignition ON time since the last reset. Resetting the Elapsed Time will cause the display to change to zero.

C/T Button

Use the C/T (Compass/Temperature) button to select a readout of the outside temperature and one of eight compass headings that indicate the direction in which the vehicle is facing.

C/T Button

The system will display the last known outside temperature when starting the vehicle and may need to be driven several minutes before the updated temperature is displayed. Engine temperature can also affect the displayed temperature, therefore temperature readings are not updated when the vehicle is not moving.

Global Reset

If the RESET button is pressed twice within two seconds while in any of the three resettable displays (AVG ECO, ODO, ET), the GLOBAL RESET will reset all three displays.

Compass/Temperature Display

WARNING!

Even if the display still reads a few degrees above 32° F (0° C), the road surface may be icy, particularly in woods or on bridges. Drive carefully under such conditions to prevent an accident and possible personal injury or property damage.

Automatic Compass Calibration

This compass is self-calibrating which eliminates the need to manually set the compass. When the vehicle is new, the compass may appear erratic and the CAL symbol will be displayed.

After completing one 360 degree turn with the vehicle traveling less than 5 mph (8 km/h) in an area free from large metal or metallic objects, the CAL symbol will turn off and the compass will function normally.

NOTE: Magnetic materials should be kept away from the Overhead Console. This is where the compass sensor is located.

Manual Compass Calibration

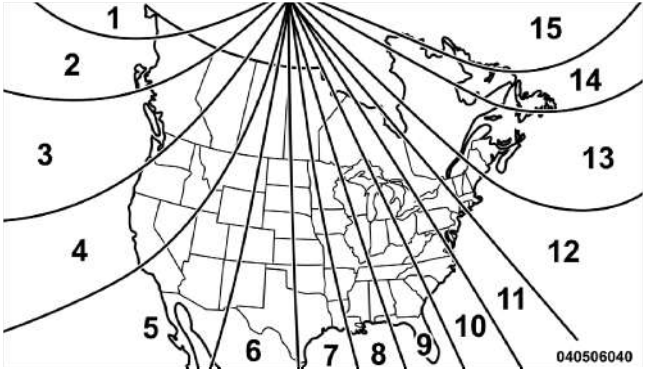
NOTE: To ensure proper compass calibration, make sure the compass variance is properly set before manually calibrating the compass.

If the compass appears erratic and the CAL symbol does not appear, you must manually put the compass into the "Calibration" mode.

To Put Into a Calibration Mode

Turn the ignition ON and set the display to "Compass/Temperature." Press and hold the RESET button to change the display between VAR (compass variance) and CAL (compass calibration) modes. When the CAL symbol is displayed, complete one 360 degree turn in an area free from large metal objects or power lines. The CAL symbol will turn off and the compass will function normally.

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



Compass Variance Map

To set the variance: Turn the ignition ON and set the display to "Compass/Temperature." Press and hold the RESET button approximately five seconds. The last variance zone number will be displayed. Press the STEP button to select the new variance zone and press the RESET button to resume normal operation.

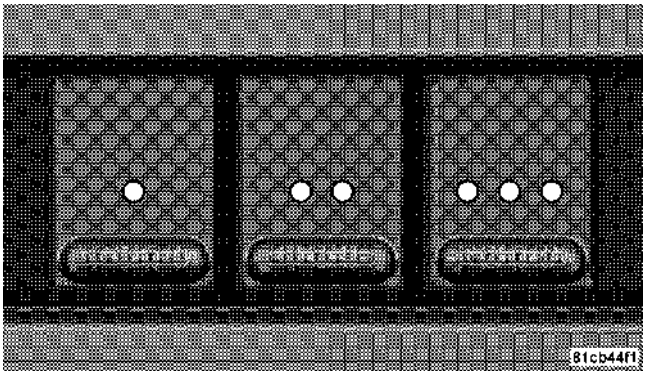
Outside Temperature

Because the ambient temperature sensor is located under the hood, engine temperature can influence the displayed temperature; therefore, temperature readings are slowly updated when the vehicle speed is below 20 mph (30 km/h) or during stop-and-go driving.

GARAGE DOOR OPENER — IF EQUIPPED

HomeLink® replaces up to three remote controls (hand-held transmitters) that operate devices such as garage door openers, motorized gates, lighting or home security systems. The HomeLink® unit operates off of your vehicle's battery.

The HomeLink® buttons are located in the overhead console, and contain one, two or three dots/lines designating the different HomeLink® channels.



HomeLink Buttons

NOTE: HomeLink® is disabled when the Vehicle Theft Alarm is active.

WARNING!

- **Your motorized door or gate will open and close while you are training the Universal Transceiver. Do not train the transceiver if people, pets or other objects are in the path of the door or gate. Only use this transceiver with a garage door opener that has a "stop and reverse" feature as required by federal safety standards. This includes most garage door opener models manufactured after 1982. Do not use a garage door opener without these safety features. Call toll-free 1–800–355–3515 or, on the Internet at www.HomeLink.com for safety information or assistance.**
- **Vehicle exhaust contains carbon monoxide, a dangerous gas. Do not run your vehicle in the garage while training the transceiver. Exhaust gas can cause serious injury or death.**

Programming HomeLink®

Before You Begin

The Compass Mini-Trip Computer (CMTC) illuminates the HomeLink® symbol (a house with an arrow inside it) along with 1, 2 or 3 indicators under it, when a HomeLink® button is pressed.

Pay attention to the indicator(s), as they will flash at different rates, or remain solid during training.

If you have not trained any of the HomeLink® buttons, erase all channels before you begin training.

To do this, press and hold the two outside buttons for 20 seconds. Release the buttons when the indicators start to flash.

It is recommended that a new battery be placed in the handheld transmitter of the device being copied to HomeLink® for more efficient training and accurate transmission of the radio-frequency signal.

Your vehicle should be parked outside of the garage while training.

- Turn the ignition switch to the ON/RUN position.
- Place the handheld transmitter 1 to 3 inches (3 to 8 cm) from the HomeLink® buttons while keeping the HomeLink® display in view.

  For optimal training, point the battery end of the handheld transmitter away from the HomeLink®.
- Simultaneously, press and hold both the chosen HomeLink®button and the handheld transmitter button until the indicator(s) change from a slow to a rapid flash rate.

  Then release both the HomeLink® and handheld transmitter buttons.

It may take up to 30 seconds or longer in rare cases. The garage door may open and close while you train.

If the signal is too weak to train, replace the battery in the handheld transmitter.

NOTE: Some gate operators and garage door openers may require you to replace Step 3 with procedures noted in the "Gate Operator/Canadian Programming" section.

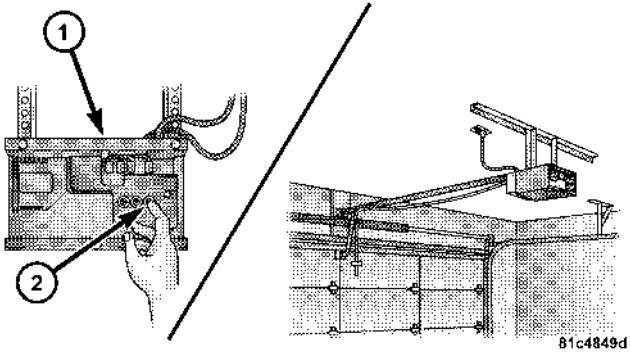
- Press and hold the just-trained HomeLink® button. If the indicator(s) blink rapidly for two seconds and then remains constant, continue with the next section: "Programming A Rolling Code System".

NOTE: After training a HomeLink® channel, if the garage door does not operate with HomeLink® and the garage door opener was manufactured after 1995, the garage door opener may have rolling code. If so, proceed to the heading, "Programming A Rolling Code System."

Programming A Rolling Code System

At the garage door opener motor (in the garage), locate the "Learn" or "Training" button.

This can usually be found where the hanging antenna wire is attached to the garage door opener motor (it is NOT the button normally used to open and close the door).



1 — Garage Door Opener
2 — Training Button

1. Firmly press and release the LEARN or TRAINING button. The name and color of the button may vary by manufacturer.

NOTE: You have 30 seconds in which to initiate the next step after the LEARN button has been pressed.

2. Return to the vehicle and press the programmed HomeLink® button twice (holding the button for two seconds each time). If the device is plugged in and activates, programming is complete.

If the device does not activate, press the button a third time (for two seconds) to complete the training.

If you are have any problems, or require assistance, please call toll-free 1–800–355–3515 or, on the Internet at www.HomeLink.com for information or assistance.

To program the remaining two HomeLink® buttons, repeat each step for each remaining button. DO NOT erase the channels.

Gate Operator/Canadian Programming

Canadian radio-frequency laws require transmitter signals to "time-out" (or quit) after several seconds of transmission – which may not be long enough for HomeLink® to pick up the signal during programming. Similar to this Canadian law, some U.S. gate operators are designed to "time-out" in the same manner.

It may be helpful to unplug the device during the cycling process to prevent possible overheating of the garage door or gate motor.

If you are having difficulties programming a garage door opener or a gate operator, replace "Programming HomeLink," Step 3, with the following:

3. Continue to press and hold the HomeLink® button, while you press and release ("cycle"), your handheld transmitter every two seconds until HomeLink® has successfully accepted the frequency signal. The indicator(s) will change from a slow flash to a rapid flash when trained.

If you unplugged the device for training, plug it back in at this time.

Then proceed with Step 4 under, "Programming HomeLink®," earlier in this section.

Using HomeLink®

To operate, press and release the programmed HomeLink® button. Activation will now occur for the trained device (i.e., garage door opener, gate operator, security system, entry door lock, home/office lighting, etc.,). The handheld transmitter of the device may also be used at any time.

Reprogramming A Single HomeLink® Button

To reprogram a channel that has been previously trained, follow these steps:

1. Turn the ignition switch to the ON/RUN position.

2. Press and hold the desired HomeLink® button for 20 seconds until the indicator(s) starts to flash. **Do not release the button.**

3. **Without releasing the button,** proceed with Programming HomeLink®, Step #2, and follow all remaining steps.

Security

It is advised to erase all channels before you sell or turn in your vehicle.

To do this, press and hold the two outside buttons for 20 seconds until the indicators begin to flash. Note that all channels will be erased. Individual channels cannot be erased.

The HomeLink® Universal Transceiver is disabled when the Vehicle Theft Alarm is active.

Troubleshooting Tips

If you are having trouble programming HomeLink®, here are some of the most common solutions:

- Replace the battery in the original transmitter.
- Press the LEARN button on the garage door opener to complete the training for Rolling Code.
- Did you unplug the device for training and remember to plug it back in?

If you have any problems, or require assistance, please call toll-free 1–800–355–3515 or, on the Internet at www.HomeLink.com, for information or assistance.

General Information

This device complies with FCC rules part 15 and Industry Canada RSS-210. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.

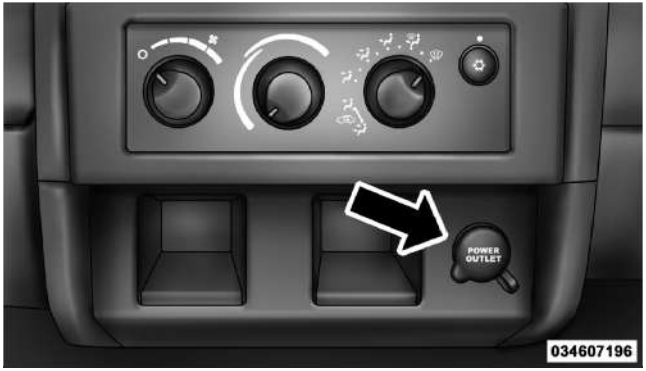
2. This device must accept any interference that may be received including interference that may cause undesired operation.

NOTE: The transmitter has been tested and it complies with FCC and IC rules. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the device.

The term "IC" before the certification/registration number only signifies that Industry Canada technical specifications were met.

ELECTRICAL POWER OUTLETS

This vehicle has two 12 Volt (13 Amp) auxiliary power outlets that can provide power for accessories designed for use with standard power outlet adapters. The power outlets are located in the instrument panel (below the temperature control setting knob) and inside the full-size center console.



Instrument Panel Outlet

When the optional Cigar Lighter heating element is used, it heats when pushed in and pops out automatically when ready for use. **To preserve the heating element, do not hold the lighter in the heating position.**

NOTE:

- To ensure proper operation a MOPAR® knob and element must be used.
- Do not exceed the maximum power of 160 Watts (13 Amps) at 12 Volts. If the 160 Watt (13 Amp) power rating is exceeded the fuse protecting the system will need to be replaced.

WARNING!

To avoid serious injury or death:

- **Only devices designed for use in this type of outlet should be inserted into any 12 Volt outlet.**

(Continued)

WARNING! (Continued)

- **Do not touch with wet hands.**
- **Close the lid when not in use and while driving the vehicle.**
- **If this outlet is mishandled, it may cause an electric shock and failure.**

CAUTION!

- **Many accessories that can be plugged in, draw power from the vehicle's battery, even when not in use (i.e., cellular phones, etc.). Eventually, if plugged in long enough, the vehicle's battery will discharge sufficiently to degrade battery life and/or prevent the engine from starting.**

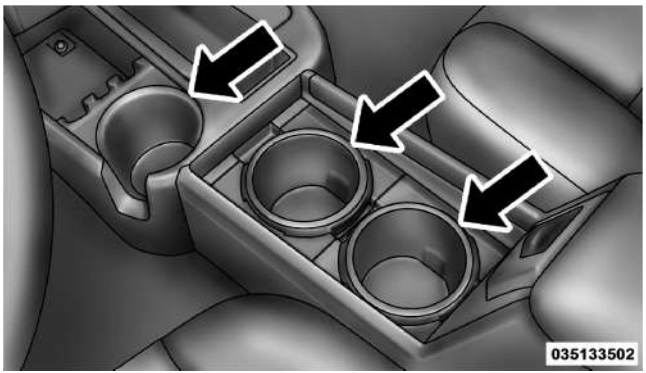
(Continued)

CAUTION! (Continued)

- **Accessories that draw higher power (i.e., coolers, vacuum cleaners, lights, etc.), will discharge the battery even more quickly. Use these only intermittently and with greater caution.**
- **After the use of high power draw accessories, or long periods of the vehicle not being started (with accessories still plugged in), the vehicle must be driven a sufficient length of time to allow the generator to recharge the vehicle's battery.**

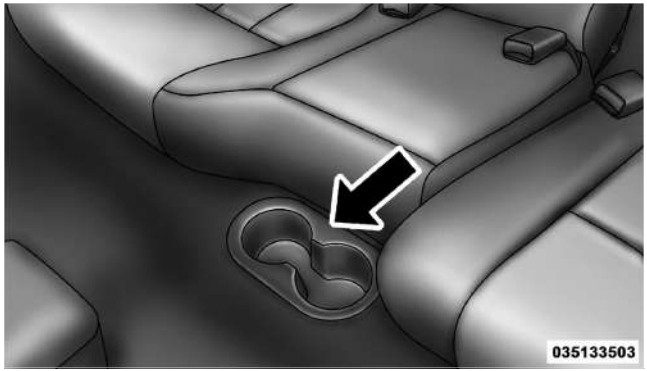
CUPHOLDERS

If your vehicle has bucket seats with a center console, there are three cupholders located on the console.



Front Cup Holders — Crew Cab

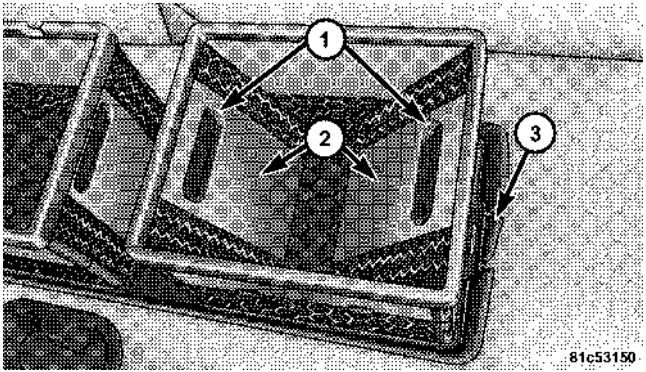
A two-cavity cupholder is available on all Crew Cabs, with rear seats mounted on the floor.



Rear Cup Holders — Crew Cab

REAR CRATE 'N GO® STORAGE — IF EQUIPPED

The rear Crate 'n Go® storage, located under the rear seat lower cushion, consists of two removable, collapsible storage crates.



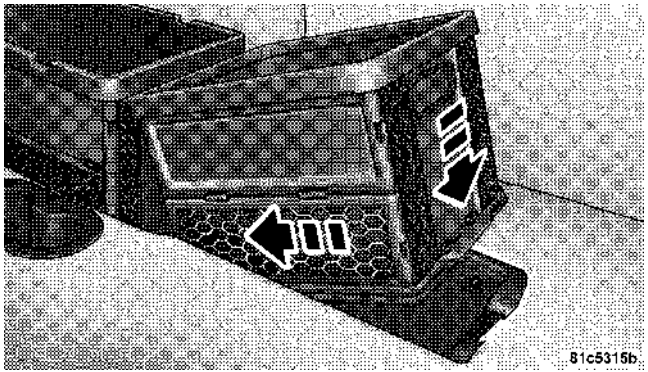
Open Crate

1 — Crate Handles
2 — Crate End Flaps
3 — Release Lever

To open the crates, lift upward on the crate handles and engage the crate end flaps.

To remove the crate, press on the release lever, located on the ends of the base, and lift up on the crate.

To install the crate into the base, insert the crate into the inboard slot and push down on the outboard side of the crate, then snap into place.



Insert Crate

To collapse the crate, push the crate end flaps inward to disengage. Push the sides inward and snap into place.

WARNING!

Do not sit or stand on this crate. It may collapse causing serious injury.

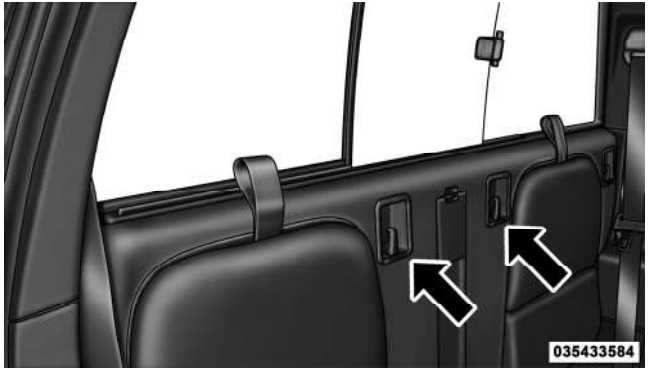
CAUTION!

Do not lift up on the "End Flaps" to open the crate, damage to the "End Flaps" may occur.

NOTE: The maximum loading capacity for the small crate is 30 lbs (13.6 kg) and 50 lbs (22.6 kg) for the large crate.

Plastic Grocery Bag Retainers

Retainer hooks, which will hold plastic grocery bag handles, are built into the back panel of the cab.



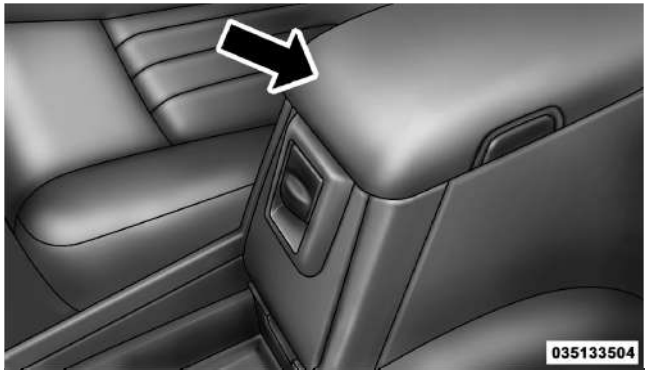
Grocery Bag Retainers

CONSOLE FEATURES — IF EQUIPPED

Floor Console Features

The Floor Console between the driver's and front passenger's seat has the following features:

- Miscellaneous storage compartments.
- Three cupholders (two removable).
- iPod/Phone storage bin.
- 12 Volt power outlet inside storage compartment.
- Side open armrest lid.
- Tissue holder and two pen holders.
- Coin slots (located under the instrument panel center stack).



Floor Console

Storage Compartments

Some miscellaneous storage compartments and cupholders are both removable and dishwasher safe (upper rack of dishwasher only) for cleaning purposes. Various storage compartments provide versatile and useful storage. A coin holder is also provided inside the driver side storage bin.

Power Outlet and Portable Phone Storage

The console is equipped with a power outlet and an iPod/phone storage bin. The phone storage bin can be used when easy access to the phone is needed. Also, the power outlet inside the console compartment can be used to charge the phone while it is being stored in the bin. The power outlet may be used for any portable item with a standard 12 Volt power plug.

Side Open Armrest Lid

Pressing the button on the left side of the console opens the console armrest lid. The armrest lid will remain open until the armrest lid is closed manually, by pressing the lid back into place. Two pen holders are provided on the

inside of the armrest lid. A tissue holder is also provided on the inside of the armrest lid, which holds a pocket-size soft pack of tissue.

CARGO AREA FEATURES

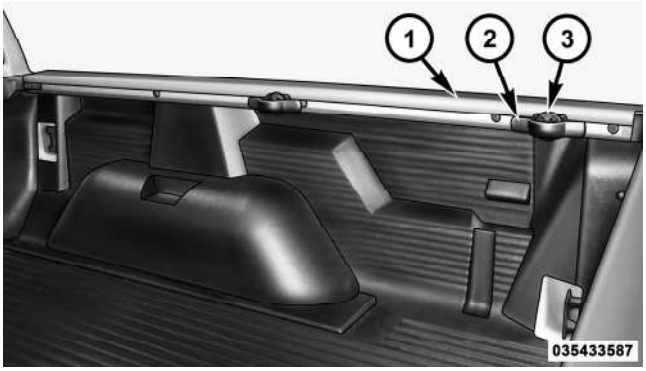
Rear Cargo Area Utility Rails — If Equipped

CAUTION!

The maximum load per cleat should not exceed 320 lbs (145 kg) and the angle of the load on each cleat should not exceed 60 degrees above horizontal, or damage to the cleat or cleat rail may occur.

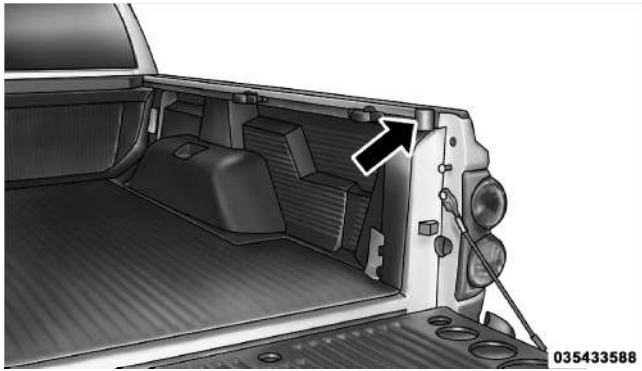
There are four adjustable cleats that can be used to assist in securing cargo. Each cleat must be located and tightened down in one of the detent's, along either rail, in order to keep cargo properly secure.

To move the cleat to any position on the rail, turn the nut counterclockwise, approximately three turns. Then pull out on the cleat and slide it to the detent nearest the desired location. Make sure the cleat is seated in the detent and tighten the nut.



1 — Utility Rail Detent's
2 — Utility Rail Cleat
3 — Cleat Retainer Nut

To remove the cleats from the utility rail, remove the end cap by pushing up on the locking tab, located on the bottom of the end cap. Slide the cleat off the end of the rail.



Utility Rail End Cap

REAR WINDOW FEATURES

Rear Window Defroster — If Equipped

The rear window defroster button is located on the right-side of the Air Conditioning and Heater Control, below the A/C (snowflake) button. Press this button to turn on the rear window defroster and the heated outside mirrors (if equipped). An indicator in the button will illuminate when the rear window defroster is on. The rear window defroster automatically turns off after approximately 10 minutes. For an additional five minutes of operation, press the button a second time.

NOTE: To prevent excessive battery drain, use the rear window defroster only when the engine is operating.

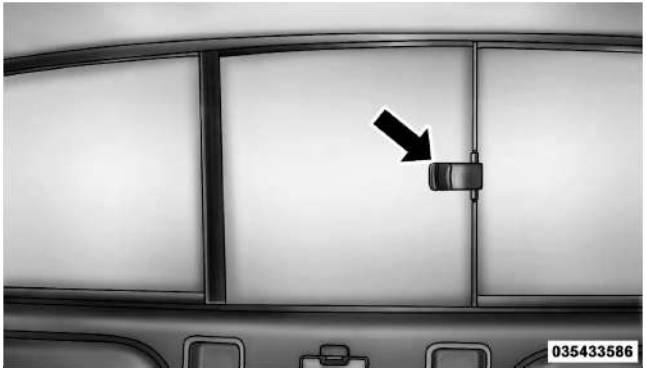
CAUTION!

Failure to follow these cautions can cause damage to the heating elements:

- **Use care when washing the inside of the rear window. Do not use abrasive window cleaners on the interior surface of the window. Use a soft cloth and a mild washing solution, wiping parallel to the heating elements. Labels can be peeled off after soaking with warm water.**
- **Do not use scrapers, sharp instruments, or abrasive window cleaners on the interior surface of the window.**
- **Keep all objects a safe distance from the window.**

Sliding Rear Window — If Equipped

A locking device in the center of the window helps to prevent entry from the rear of the vehicle. Squeeze the lock to release the window.



Sliding Rear Window Latch

SLIDE-IN CAMPERS

Camper Applications

Certain truck models are not recommended for slide-in campers. To determine if your vehicle is excluded, please refer to the Consumer Information Truck-Camper Loading document, located in your Owner's Manual packet or available from your authorized dealer. For safety reasons, follow all instructions on this important document.

General Information

The Manufacturer's Warranty does not apply to body modifications and special equipment, such as a camper unit, heaters, stoves, refrigerators, etc., supplied by manufacturers other than Chrysler Group LLC. For warranty coverage and service on these items, contact the applicable manufacturer.

To mount a camper unit with an overhang, the tailgate can be removed. Unlatch the tailgate and remove the support cables from the retainer pins. Raise the right side of the tailgate until the lower right side pivot clears the hanger bracket. Then slide the tailgate to the right to remove.

Carbon Monoxide Warning-Vehicles Equipped With A Cap or Slide-In Campers

To avoid inhaling carbon monoxide, which is deadly, the exhaust system on vehicles equipped with "Cap or Slide-In Campers" should extend beyond the overhanging camper compartment and be free of leaks.

TAILGATE

Tailgate Removal

To simplify mounting a camper unit with an overhang, the tailgate can be removed quickly. Follow these steps:

1. Open the tailgate to a 45 degree angle.

2. Unclip and remove the cables from the box while maintaining a 45 degree angle.

3. Lift the tailgate off of the pivot on the passenger side by pulling upward and rearward at the same time.

4. Slide the tailgate to the passenger side while making sure clearance from the box and taillight is maintained.

To reinstall the tailgate, do the following:

1. Slide the tailgate onto the driver's side pivot.

2. Hold the tailgate at a 45 degree angle and insert it into the passenger side pivot.

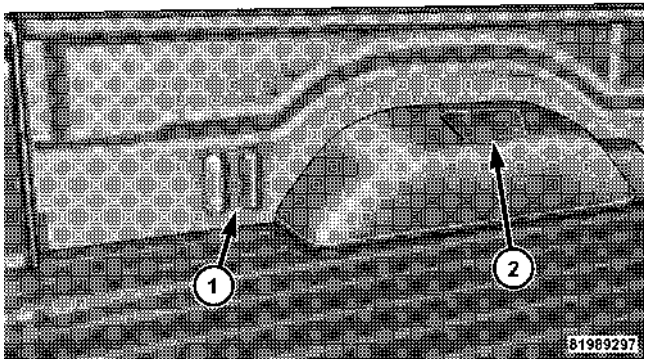
3. Clip the cables to the box.

Two–Position Tailgate/Upper Load Platform

Your tailgate can be opened to the full-open or the partial-open position. The partial-open position is for loading objects longer than the length of the bed (sheets of plywood, etc.) by creating an upper load platform:

Installing Lumber

1. Place lumber across the box in the indentations provided above the wheel housings and in the bulkhead dividers, to form the floor. There are indents in the sheet metal (or bed liner if equipped) on the inner side of the box in front (Club Cab® only) and behind both wheel housings.

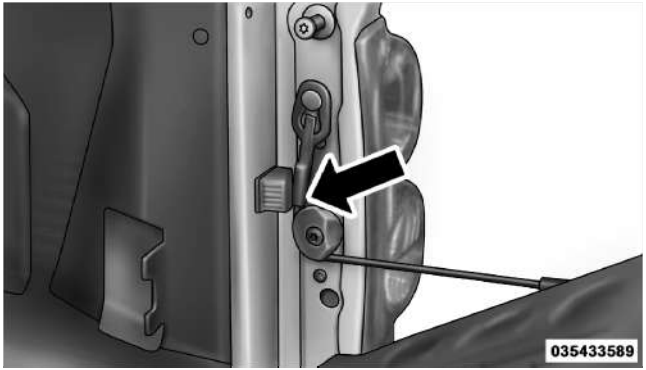


1 — Bulkhead Divider Slot
2 — Wheel Housing Indentions

2. Secure the tailgate in the partially-open position:

3. Open the tailgate slightly.

4. Snap the tailgate support cable between the cable guide and the tailgate bumper. Do this on both sides of the tailgate.



Tailgate Guide

To return the tailgate to the full-open position:

1. Lift up on the tailgate.

2. Remove both cables from between the cable guides and the tailgate bumpers, and lower the tailgate.

CAUTION!

- **Care should always be exercised when operating a vehicle with cargo. Vehicle speeds may need to be reduced. Severe turns or rough roads may cause shifting or bouncing of the cargo that may result in vehicle damage.**
- **Ensure the load is securely tied down and is properly identified according to local laws if it extends beyond the tail lights.**

(Continued)

CAUTION! (Continued)

- **Loading should not exceed 400 lbs (181 kg) of material suspended above the wheelhouse and partially open tailgate or vehicle damage may result.**

UNDERSTANDING YOUR INSTRUMENT PANEL

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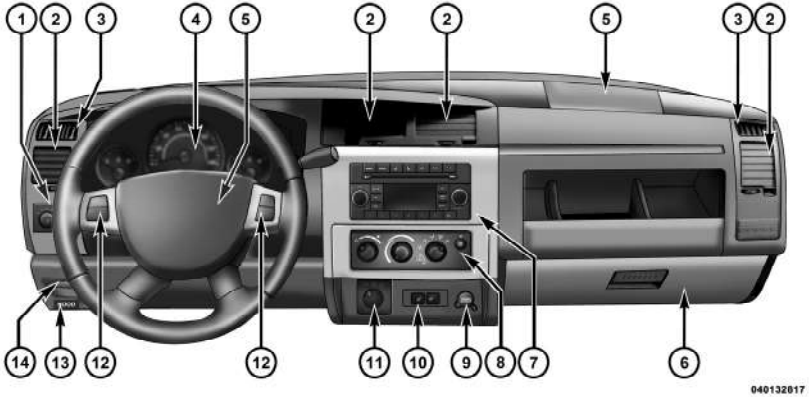
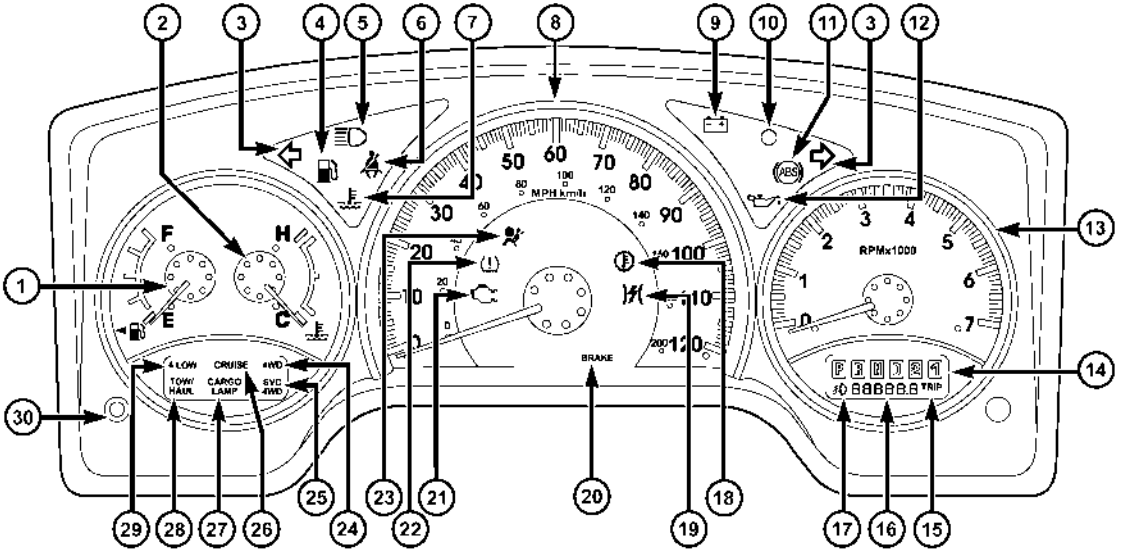
INSTRUMENT PANEL FEATURES



1 — Headlight Switch
2 — Air Outlets
3 — Demister Outlets
4 — Instrument Cluster
5 — Airbags
6 — Glove Compartment
7 — Radio
8 — Climate Controls
9 — Power Outlet
10 — Heated Seat Switches*
11 — Transfer Case Switch*
12 — Speed Control Switches
13 — Hood Release
14 — Parking Brake Release
* If Equipped

INSTRUMENT CLUSTER



INSTRUMENT CLUSTER DESCRIPTIONS

1. Fuel Gauge

The fuel gauge shows the level of fuel in the fuel tank when ignition switch is in the ON/RUN position.

2. Temperature Gauge

The temperature gauge shows engine coolant temperature. Any reading within the normal range indicates that the engine cooling system is operating satisfactorily. The gauge pointer will likely indicate a higher temperature when driving in hot weather, up mountain grades, or when towing a trailer. It should not be allowed to exceed the upper limits of the normal operating range.

CAUTION!

Do not leave your vehicle unattended with the engine running as you would not be able to react to the temperature gauge if the engine overheats.

3. Turn Signal Indicators

When a turn signal is activated, a right-pointing or left-pointing arrow lights up and flashes to indicate the direction of the turn. These indicators also indicate proper operation of the front and rear turn signal lights. If either indicator flashes at a faster rate than normal, check for a defective bulb. If either indicator fails to light up when the lever is moved, check for a defective fuse or turn signal LED. A single chime is activated when the left/right turn signal is left on, with the vehicle speed greater than 15 mph (24 km/h) for more than 1 mile (1.6 km).

4. Low Fuel Warning Light

The low fuel warning light will illuminate when the fuel gauge reads 1/8 of a tank or less. There is a pointer on the side of this symbol that indicates the side that your fuel filler door is located.

5. High Beam Indicator

The high beam indicator will illuminate if the headlights are on high beam.

6. Seat Belt Reminder Light

When the ignition switch is first turned to ON/RUN, this light will turn on for four to eight seconds as a bulb check. During the bulb check, if the driver's seat belt is unbuckled, a chime will sound. After the bulb check or when driving, if the driver seat belt remains unbuckled, the Seat Belt Warning Light will flash or remain on continuously. Refer to "Occupant Restraints" in "Things To Know Before Starting Your Vehicle" for further information.

7. Engine Temperature Warning Light

This light warns of an overheated engine condition. As temperatures rise and the gauge approaches **H** (Hot), this indicator will illuminate and a single chime will sound after reaching a set threshold. Further overheating will cause the temperature gauge to pass **H** (Hot), the indicator will continuously flash and a continuous chime will occur until the engine is allowed to cool.

CAUTION!

Driving with a hot engine cooling system could damage your vehicle. If the temperature light is on, safely pull over and stop the vehicle. Idle the vehicle in neutral with the air conditioner turned off until the light turns off. If the light remains on, turn the engine off immediately, and call for service.

WARNING!

A hot engine cooling system is dangerous. You or others could be badly burned by steam or boiling coolant. You may want to call a service center if your vehicle overheats. If you decide to look under the hood yourself, see "Maintaining Your Vehicle". Follow the warnings under the Cooling System Pressure Cap paragraph.

8. Speedometer

The speedometer shows the vehicle's speed.

9. Charging System Light

This light shows the status of the electrical charging system. The light should come on when the ignition switch is first turned to ON/RUN and remain on briefly as a bulb check. If the light stays on or comes on while driving, turn off some of the vehicle's non-essential electrical devices or increase engine speed (if at idle). If the charging system light remains on, it means that the vehicle is experiencing a problem with the charging system. Obtain SERVICE IMMEDIATELY. See an authorized dealer.

If jump starting is required, refer to "Jump Starting Procedures" in "What To Do In Emergencies".

10. Vehicle Security Light

The vehicle security light will flash rapidly for approximately 15 seconds when the vehicle security alarm is arming. The light will flash at a slower speed continuously after the alarm is set. The security light will also come on for about three seconds when the ignition is first turned to ON/RUN.

11. Anti-Lock Brake (ABS) Light

This light monitors the Anti-Lock Brake System (ABS). The light will illuminate when the ignition switch is turned to the ON/RUN position and may stay on for as long as four seconds.

If the ABS light remains on or turns on while driving, it indicates that the Anti-Lock portion of the brake system is not functioning and that service is required. However, the conventional brake system will continue to operate normally if the BRAKE warning light is not on.

If the ABS light is on, the brake system should be serviced as soon as possible to restore the benefits of Anti-Lock brakes. If the ABS light does not illuminate when the ignition switch is turned to the ON/RUN position, have the light inspected by an authorized dealer.

12. Oil Pressure Warning Light

The Oil Pressure Warning Light illuminates when the engine oil pressure has become too low. For a bulb check, this light will come on momentarily when the ignition is turned to ON/RUN. If the light turns on while driving, stop the vehicle and shut off the engine as soon as possible. Immediate service should be obtained.

13. Tachometer

The tachometer gauge measures engine revolutions-per-minute (RPM x 1000).

14. Shift Lever Indicator

The electronic shift lever indicator is self-contained within the instrument cluster. It displays the position of the automatic transmission shift lever, and the relation of each position to all other positions. The display will place a box around the selected transmission range (PRND21). If the PRNDL displays only the characters PRND21 (no boxes), have the system checked by an authorized dealer.

15. Trip Odometer

The trip odometer shows individual trip mileage. To switch from odometer to trip odometer, press and release the trip odometer button.

To reset a trip odometer, display the trip odometer then push and hold the button until the display resets (approximately two seconds).

Vehicle Odometer Messages

When the appropriate conditions exist, the following messages will display in the odometer:

door . . . . . Door Ajar
gASCAP . . . . . Fuel Cap Fault
LoW tirE. . . . . Low Tire Pressure
noFUSE . . . . . Fuse Fault
CHAngE OIL . . . . . Oil Change Required

On vehicles equipped with a Overhead Console with Compass/Temperature Mini-Trip Computer, some vehicle messages may display in the Overhead Console with Compass/Temperature Mini-Trip Computer when the appropriate conditions exist. Refer to Overhead Console with Compass/Temperature Mini-Trip Computer in "Understanding The Features Of Your Vehicle" for further information.

gASCAP

If the vehicle diagnostic system determines that the fuel filler cap is loose, improperly installed, or damaged, a "gASCAP" message will display in the odometer display area. Tighten the fuel filler cap properly and press the TRIP ODOMETER button to turn off the message. If the problem continues, the message will appear the next time the vehicle is started.

LoW tirE

When the appropriate condition exists, the odometer display will toggle between LoW and tirE for three cycles.

noFUSE

If the vehicle diagnostic system determines that the Ignition Off Draw (IOD) fuse is improperly installed, or

damaged, a “noFUSE” message will display in the odometer display area. For further information on fuses and fuse locations refer to “Fuses” in “Maintaining Your Vehicle”.

CHAngE OIL Message

Your vehicle is equipped with an engine oil change indicator system. The “CHAngE OIL” message will flash in the instrument cluster odometer for approximately 12 seconds after a single chime has sounded, to indicate the next scheduled oil change interval. The engine oil change indicator system is duty cycle based, which means the engine oil change interval may fluctuate dependent upon your personal driving style.

Unless reset, this message will continue to display each time you turn the ignition switch to the ON/RUN position. To turn off the message temporarily, press and release the Trip Odometer button on the instrument cluster. To reset the oil change indicator system (after performing the scheduled maintenance), refer to the following procedure:

1. Turn the ignition switch to the ON/RUN position **(do not start the engine).**
2. Fully depress the accelerator pedal slowly three times within 10 seconds.
3. Turn the ignition switch to the OFF/LOCK position.

NOTE: If the indicator message illuminates when you start the vehicle, the oil change indicator system did not reset. If necessary, repeat this procedure.

16. Odometer Display

The odometer display shows the total distance the vehicle has been driven.

U.S. Federal regulations require that upon transfer of vehicle ownership, the seller certify to the purchaser the correct mileage that the vehicle has been driven. If your odometer needs to be repaired or serviced, the repair technician should leave the odometer reading the same as it was before the repair or service. If s/he cannot do so, then the odometer must be set at zero, and a sticker must be placed in the door jamb stating what the mileage was before the repair or service. It is a good idea for you to make a record of the odometer reading before the repair/service, so that you can be sure that it is properly reset, or that the door jamb sticker is accurate if the odometer must be reset at zero.

17. Fog Light Indicator — If Equipped

The fog light indicator illuminates when the fog lights are on.

18. Transmission Temperature Warning Light

This light indicates that there is excessive transmission fluid temperature, that might occur with severe usage such as trailer towing. If this light comes on, stop the vehicle and run the engine at idle or faster, with the transmission in NEUTRAL, until the light goes off.

CAUTION!

Continuous driving with the Transmission Temperature Warning Light illuminated will eventually cause severe transmission damage or transmission failure.

WARNING!

Continued operation with the Transmission Temperature Warning Light illuminated could cause the fluid to boil over, come in contact with hot engine or exhaust components causing a fire that may result in personal injury.

19. Electronic Throttle Control (ETC) – If Equipped

The Electronic Throttle Control (ETC) light informs you of a problem with the ETC system. If a problem is detected, the light will come on while the engine is running. If the light remains lit with the engine running, your vehicle will usually be drivable; however, see an authorized dealer for service as soon as possible. If the light is flashing when the engine is running, immediate service is required and you may experience reduced performance, an elevated/rough idle or engine stall, and your vehicle may require towing. The light will come on when the ignition is first turned to ON/RUN and remain on for 15 seconds as a bulb check. If the light does not come on during starting, have the system checked by an authorized dealer.

20. Brake Warning Light

BRAKE

This light monitors various brake functions, including brake fluid level and parking brake application. If the brake light turns on, it may indicate that the parking brake is applied, that the brake fluid level is low, or that there is a problem with the anti-lock brake system reservoir.

If the light remains on when the parking brake has been disengaged, and the fluid level is at the full mark on the master cylinder reservoir, it indicates a possible brake hydraulic system malfunction or that a problem with the Brake Booster has been detected by the Anti-Lock Brake System (ABS) / Electronic Stability Program (ESP) system. In this case, the light will remain on until the

condition has been corrected. If the problem is related to the brake booster, the ABS pump will run when applying the brake and a brake pedal pulsation may be felt during each stop.

The dual brake system provides a reserve braking capacity in the event of a failure to a portion of the hydraulic system. A leak in either half of the dual brake system is indicated by the Brake Warning Light which will turn on when the brake fluid level in the master cylinder has dropped below a specified level.

The light will remain on until the cause is corrected.

NOTE: The light may flash momentarily during sharp cornering maneuvers which change fluid level conditions. The vehicle should have service performed, and the brake fluid level checked.

If brake failure is indicated, immediate repair is necessary.

WARNING!

Driving a vehicle with the red brake light on is dangerous. Part of the brake system may have failed. It will take longer to stop the vehicle. You could have a collision. Have the vehicle checked immediately.

Vehicles equipped with the Anti-Lock Brake System (ABS), are also equipped with Electronic Brake Force Distribution (EBD). In the event of an EBD failure, the Brake Warning Light will turn on along with the ABS Light. Immediate repair to the ABS system is required.

Operation of the Brake Warning Light can be checked by turning the ignition switch from the OFF position to the ON/RUN position. The light should illuminate for approximately two seconds. The light should then turn off unless the parking brake is applied or a brake fault is detected. If the light does not illuminate, have the light inspected by an authorized dealer.

The light also will turn on when the parking brake is applied with the ignition switch in the ON/RUN position.

NOTE: This light shows only that the parking brake is applied. It does not show the degree of brake application.

21. Malfunction Indicator Light (MIL)

The Malfunction Indicator Light (MIL) is part of an Onboard Diagnostic system (OBD II) that monitors the emissions and engine control system. If the vehicle is ready for emissions testing, the light will come on when the ignition is first turned to ON/RUN and remain on, as a bulb check, until the engine is started. If the vehicle is not ready for emissions testing, the light will come on when the ignition is first turned to ON/RUN and remain on for 15 seconds, then blink for 5 seconds, and remain on until the vehicle is started. If the bulb does not come on during starting, have the condition investigated promptly.

If this light comes on and remains on while driving, it suggests a potential engine control problem and the need for system service.

Although your vehicle will usually be drivable and not need towing, see an authorized dealer for service as soon as possible.

CAUTION!

Prolonged driving with the MIL on could cause damage to the engine control system. It also could affect fuel economy and drivability. If the MIL is flashing, severe catalytic converter damage and power loss will soon occur. Immediate service is required.

WARNING!

A malfunctioning catalytic converter, as referenced above, can reach higher temperatures than in normal operating conditions. This can cause a fire if you drive slowly or park over flammable substances such as dry plants or wood or cardboard, etc. This could result in death or serious injury to the driver, occupants or others.

22. Tire Pressure Monitoring Telltale Light

Each tire, including the spare (if provided), should be checked monthly, when cold and inflated to the inflation pressure recommended by the vehicle manufacturer on the vehicle placard or tire inflation pressure label. (If your vehicle has tires of a different size than the size indicated on the vehicle placard or tire inflation pressure label, you should determine the proper tire inflation pressure for those tires.)

As an added safety feature, your vehicle has been equipped with a Tire Pressure Monitoring System (TPMS) that illuminates a low tire pressure telltale when one or more of your tires is significantly under-inflated. Accordingly, when the low tire pressure telltale illuminates, you should stop and check your tires as soon as possible, and inflate them to the proper pressure. Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.

Please note that the TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to

maintain correct tire pressure, even if under-inflation has not reached the level to trigger illumination of the TPMS low tire pressure telltale.

Your vehicle has also been equipped with a TPMS malfunction indicator to indicate when the system is not operating properly. The TPMS malfunction indicator is combined with the low tire pressure telltale. When the system detects a malfunction, the telltale will flash for approximately one minute and then remain continuously illuminated. This sequence will continue upon subsequent vehicle start-ups as long as the malfunction exists. When the malfunction indicator is illuminated, the system may not be able to detect or signal low tire pressure as intended. TPMS malfunctions may occur for a variety of reasons, including the installation of replacement or alternate tires or wheels on the vehicle that prevent the TPMS from functioning properly. Always check the TPMS malfunction telltale after replacing one or more tires or wheels on your vehicle, to ensure that the replacement or alternate tires and wheels allow the TPMS to continue to function properly.

CAUTION!

The TPMS has been optimized for the original equipment tires and wheels. TPMS pressures and warning have been established for the tire size equipped on your vehicle. Undesirable system operation or sensor damage may result when using replacement equipment that is not of the same size, type, and/or style. Aftermarket wheels can cause sensor damage. Do not use tire sealant from a can, or balance beads if your vehicle is equipped with a TPMS, as damage to the sensors may result.

23. Airbag Warning Light

This light will turn on for four to eight seconds as a bulb check when the ignition switch is first turned to ON/RUN. If the light is either not on during starting, stays on, or turns on while driving, then have the system inspected at an authorized dealer as soon as possible. Refer to "Occupant Restraints" in "Things To Know Before Starting Your Vehicle" for further information.

24. 4WD Indicator

4WD

This light indicates the vehicle is in four-wheel drive and 4LOCK. 4WD allows all four wheels to receive torque from the engine simultaneously.

25. SVC (Service) 4WD Indicator

The SVC 4WD illuminates when the ignition key is turned to the ON/RUN position and will stay on for two seconds. If the light stays on or illuminates during driving, it means that the 4WD system is not functioning properly and that service is required.

26. Cruise Indicator

The cruise indicator illuminates when the electronic speed control system is turned on.

27. Cargo Lamp

CARGO LAMP

The Cargo Lamp indicator will illuminate when the Cargo Lamp is activated by pressing the CARGO button, located on the headlight switch.

28. TOW/HAUL

The TOW/HAUL button is located at the end of the gear shift lever. This light will illuminate when the TOW/HAUL button has been selected.

29. 4WD LOW Indicator

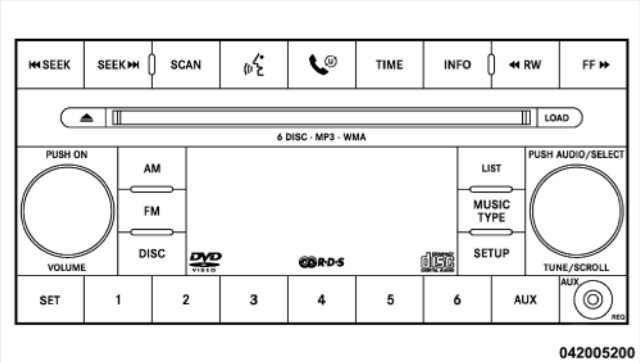
This light alerts the driver that the vehicle is in the four-wheel drive LOW mode. The front and rear driveshafts are mechanically locked together forcing the front and rear wheels to rotate at the same speed. Low range provides a greater gear reduction ratio to provide increased torque at the wheels.

30. Odometer/Trip Odometer Button

Press the ODOMETER/TRIP ODOMETER button to toggle between the odometer and the trip odometer display. Holding the button in, resets the trip odometer reading.

MEDIA CENTER 230 (REQ) — AM/FM STEREO RADIO AND 6–DISC CD/DVD CHANGER (MP3/WMA AUX JACK)

NOTE: The radio sales code is located on the lower right side of the radio faceplate.



Media Center 230 (REQ)

Operating Instructions - Radio Mode

NOTE: The ignition switch must be in the ON or ACC position to operate the radio.

Power Switch/Volume Control (Rotary)
Push the ON/VOLUME control knob to turn on the radio. Press the ON/VOLUME control knob a second time to turn off the radio.

Electronic Volume Control
The electronic volume control turns continuously (360 degrees) in either direction without stopping. Turning the ON/VOLUME control knob to the right increases the volume and to the left decreases it.

When the audio system is turned ON, the sound will be set at the same volume level as last played.

SEEK Buttons
Press and release the SEEK buttons to search for the next listenable station in AM/FM mode. Press the right switch to seek up and the left switch to seek down. The radio will remain tuned to the new station until you make another selection. Holding either button will bypass stations without stopping until you release it.

SCAN Button
Pressing the SCAN button causes the tuner to search for the next listenable station in AM, FM or Satellite (if equipped) frequencies, pausing for five seconds at each listenable station before continuing to the next. To stop the search, press the SCAN button a second time.

Voice Command Button Uconnect™ Phone — If Equipped
Press this button to operate the Uconnect™ Phone feature (if equipped). Refer to "Voice Command in the Uconnect™ User Manual located on the DVD for further details.

If your vehicle is not equipped with or this feature is not available on your vehicle, a "Not Equipped With Uconnect Phone" message will display on the radio screen.

Phone Button Uconnect™ Phone — If Equipped
Press this button to operate the Uconnect™ Phone feature (if equipped). Refer to "Uconnect™ Phone" in the Uconnect™ User Manual located on the DVD for further details.

If your vehicle is not equipped with or this feature is not available on your vehicle, a "Not Equipped With Uconnect Phone" message will display on the radio screen.

TIME Button
Press the TIME button to alternate locations of the time and frequency display.

Clock Setting Procedure

1. Press and hold the TIME button until the hours blink.

2. Adjust the hours by turning the right side TUNE/SCROLL control knob.

3. After adjusting the hours, press the right side TUNE/SCROLL control knob to set the minutes. The minutes will begin to blink.

4. Adjust the minutes using the right side TUNE/SCROLL control knob. Press the TUNE/SCROLL control knob to save the time change.

5. To exit, press any button/knob or wait five seconds.

The clock can also be set by pressing the SETUP button and selecting the "SET HOME CLOCK" entry. Once in this display follow the above procedure, starting at step 2.

INFO Button
Press the INFO button for an RDS station (one with call letters displayed). The radio will return a Radio Text message broadcast from an FM station (FM mode only).

RW/FF
Pressing the RW (Rewind) or FF (Fast Forward) buttons causes the tuner to search for the next frequency in the direction of the arrows. This feature operates in AM, FM or Satellite (if equipped) frequencies.

TUNE Control
Turn the rotary TUNE/SCROLL control knob clockwise to increase or counterclockwise to decrease the frequency.

Setting the Tone, Balance, and Fade
Push the rotary TUNE/SCROLL control knob and BASS will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the bass tones.

Push the rotary TUNE/SCROLL control knob a second time and MID will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the mid-range tones.

Push the rotary TUNE/SCROLL control knob a third time and TREBLE will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the treble tones.

Push the rotary TUNE/SCROLL control knob a fourth time and BALANCE will display. Turn the TUNE/SCROLL control knob to the right or left to adjust the sound level from the right or left side speakers.

Push the rotary TUNE/SCROLL control knob a fifth time and FADE will display. Turn the TUNE/SCROLL control knob to the left or right to adjust the sound level between the front and rear speakers.

Push the rotary TUNE/SCROLL control knob again to exit setting tone, balance, and fade.

MUSIC TYPE Button
Pressing this button once will turn on the Music Type mode for five seconds. Pressing the MUSIC TYPE button

or turning the TUNE/SCROLL control knob within five seconds will allow the program format type to be selected. Many radio stations do not currently broadcast Music Type information.

Toggle the MUSIC TYPE button to select the following format types:

Program Type	16-Digit Character Display
No program type or undefined	None
Adult Hits	Adlt Hit
Classical	Classicl
Classic Rock	Cls Rock
College	College
Country	Country
Foreign Language	Language
Information	Inform
Jazz	Jazz
News	News
Nostalgia	Nostalga
Oldies	Oldies
Personality	Persnlty
Public	Public
Rhythm and Blues	R & B
Religious Music	Rel Musc
Religious Talk	Rel Talk
Rock	Rock
Soft	Soft
Soft Rock	Soft Rck
Soft Rhythm and Blues	Soft R & B
Sports	Sports
Talk	Talk

Program Type	16-Digit Character Display
Top 40	Top 40
Weather	Weather

By pressing the SEEK button when the Music Type icon is displayed, the radio will be tuned to the next frequency station with the same selected Music Type name. The Music Type function only operates when in the FM mode.

If a preset button is activated while in the Music Type (Program Type) mode, the Music Type mode will be exited and the radio will tune to the preset station.

SETUP Button
Pressing the SETUP button allows you to select between the following items:

NOTE: Turn the TUNE/SCROLL control knob to scroll through the entries. Push the AUDIO/SELECT button to select an entry and make changes.

- **DVD Enter -** When the disc is in DVD Menu mode, selecting DVD Enter will allow you to play the current highlighted selection. Use the remote control to scroll up and down the menu (if equipped).

- **DISC Play/Pause -** You can toggle between playing the DVD and pausing the DVD by pushing the SELECT button (if equipped).

- **DVD Play Options -** Selecting the DVD Play Options will display the following:
  - Subtitle – Repeatedly pressing SELECT will switch subtitles to different subtitle languages that are available on the disc (if equipped).

- Audio Stream – Repeatedly pressing SELECT will switch to different audio languages (if supported on the disc) (if equipped).
- Angle – Repeatedly pressing SELECT will change the viewing angle if supported by the DVD disc (if equipped).

NOTE:

- The available selections for each of the above entries varies depending upon the disc.
- These selections can only be made while playing a DVD.
- **VES™ Power -** Allows you to turn VES™ ON and OFF (if equipped).
- **VES™ Lock -** Locks out rear VES™ remote controls (if equipped).
- **VES™ CH1/CH2 -** Allows the user to change the mode of either the IR1 or IR2 wireless headphones by pressing the AUDIO/SELECT button (if equipped).
- **Set Home Clock -** Pressing the SELECT button allows you to set the clock. Turn the TUNE/SCROLL control knob to adjust the hours and then press and turn the TUNE/SCROLL control knob to adjust the minutes. Press the TUNE/SCROLL control knob again to save changes.
- **Player Defaults -** Selecting this item will allow the user to scroll through the following items and set defaults according to customer preference.

Menu Language — If Equipped

Selecting this item will allow the user to choose the default startup DVD menu language (effective only if language supported by disc). If you want to select a language not listed, then scroll down and select "other."

Enter the four-digit country code using the TUNE/SCROLL control knob to scroll up and down to select the number and then push to select.

Audio Language — If Equipped
Selecting this item allows you to choose a default audio language (effective only if the language is supported by the disc). You can select a language not listed by scrolling down and selecting "other." Enter the country code using the TUNE/SCROLL control knob to scroll up and down to select the number and then push to select.

Subtitle Language — If Equipped
Selecting this item allows you to choose a default subtitle language (effective only if the language is supported by the disc). You can select a language not listed by scrolling down and selecting "other." Enter the country code using the TUNE/SCROLL control knob to scroll up and down to select the number and then push to select.

Subtitles — If Equipped
Selecting this item allows you to choose between subtitle Off or On.

Audio DRC — If Equipped
Selecting this item allows you to limit maximum audio dynamic range. The default is set to "High," and under this setting, dialogues will play at 11 db higher than if the setting is "Normal."

Aspect Ratio — If Equipped
Selecting this item allows you to choose between wide screen, pan scan, and letter box.

AutoPlay — If Equipped
When this is set to On and a DVD video is inserted, it will bypass the DVD menu screen and automatically play the movie. In some rare cases, the DVD player may not auto-play the main title. In such cases, use the MENU button on the remote control to select desired title to play.

NOTE: The user will have to set these defaults before loading a disc. If changes are made to these settings after a disc is loaded, changes will not be effective. Also, the defaults are effective only if the disc supports the customer-preferred settings.

AM and FM Buttons
Press the buttons to select AM or FM mode.

SET Button — To Set the Pushbutton Memory
When you are receiving a station that you wish to commit to pushbutton memory, press the SET button. The symbol SET 1 will now show in the display window. Select the button (1-6) you wish to lock onto this station and press and release that button. If a button is not selected within five seconds after pressing the SET button, the station will continue to play but will not be stored into pushbutton memory.

You may add a second station to each pushbutton by repeating the above procedure with this exception: Press the SET button twice and SET 2 will show in the display window. Each button can be set for SET 1 and SET 2 in both AM and FM. This allows a total of 12 AM, 12 FM, and 12 Satellite (if equipped) stations to be stored into pushbutton memory. The stations stored in SET 2 memory can be selected by pressing the pushbutton twice.

Every time a preset button is used, a corresponding button number will display.

Buttons 1 - 6
These buttons tune the radio to the stations that you commit to pushbutton memory {12 AM, 12 FM, and 12 Satellite (if equipped) stations}.

DISC Button
Pressing the DISC button will allow you to switch from AM/FM modes to Disc modes.

Operation Instructions - (DISC MODE for CD and MP3/WMA Audio Play, DVD-VIDEO)

The radio DVD player and many DVD discs are coded by geographic region. These region codes must match in order for the disc to play. If the region code for the DVD disc does not match the region code for the radio DVD player, it will not play the disc. Customers may take their vehicle to an authorized dealer to change the region code of the player a maximum of five times.

CAUTION!

The radio may shut down during extremely hot conditions. When this occurs, the radio will indicate "Disc Hot" and shut off until a safe temperature is reached. This shutdown is necessary to protect the optics of the DVD player and other radio internal components.

NOTE: The ignition switch must be in the ON or ACC position to operate the radio.

LOAD Button — Loading Compact Disc(s)

Press the LOAD button and the pushbutton with the corresponding number (1-6) where the CD is being loaded. The radio will display PLEASE WAIT and prompt when to INSERT DISC. After the radio displays "INSERT DISC," insert the CD into the player.

Radio display will show "LOADING DISC" when the disc is loading and "READING DISC" when the radio is reading the disc.

CAUTION!

This CD player will accept 4–3/4 in (12 cm) discs only. The use of other sized discs may damage the CD player mechanism.

Eject Button — Ejecting Compact Disc(s)

Press the EJECT button and the pushbutton with the corresponding number (1-6) where the CD was loaded and the disc will unload and move to the entrance for easy removal. Radio display will show "EJECTING DISC" when the disc is being ejected and prompt the user to remove the disc.

Press and hold the EJECT button for five seconds and all CDs will be ejected from the radio.

The disc can be ejected with the radio and ignition OFF.

SEEK Button (CD MODE)

Press the right SEEK button for the next selection on the CD. Press the left SEEK button to return to the beginning of the current selection, or return to the beginning of the previous selection if the CD is within the first second of the current selection. Pressing and holding the SEEK button will allow you to scroll through the tracks faster in CD and MP3/MWA modes.

SCAN Button (CD MODE)

Press the SCAN button to scan through each track on the CD currently playing.

TIME Button (CD MODE)

Press this button to change the display from a large CD playing time display to a small CD playing time display.

RW/FF (CD MODE)

Press and hold FF (Fast Forward) and the CD player will begin to fast forward until FF is released, or RW or another CD button is pressed. The RW (Rewind) button works in a similar manner.

AM or FM Button (CD MODE)

Switches the radio into the AM or FM radio mode.

Notes On Playing MP3/WMA Files

The radio can play MP3/WMA files; however, acceptable MP3/WMA file recording media and formats are limited. When writing MP3/WMA files, pay attention to the following restrictions.

Supported Media (Disc Types)

The MP3/WMA file recording media supported by the radio are CDDA, CD-R, CD-RW, MP3,WMA, DVD Video, DVD-R, DVD-RW, DVD+R, DVD+RW, and CDDA+MP3.

Supported Medium Formats (File Systems)

The medium formats supported by the radio are ISO 9660 Level 1 and Level 2 and includes the Joliet extension. When reading discs recorded using formats other than ISO 9660 Level 1 and Level 2, the radio may fail to read files properly and may be unable to play the file normally. UDF and Apple HFS formats are not supported.

The radio uses the following limits for file systems:

- Maximum number of directory levels: 8
- Maximum number of files: 255
- Maximum number of folders: 100
- Maximum number of characters in file/folder names:
  - Level 1: 12 (including a separator ″.″ and a three-character extension)
  - Level 2: 31 (including a separator ″.″ and a three-character extension)

Multisession disc formats are supported by the radio. Multisession discs may contain combinations of normal CD audio tracks and computer files (including MP3/WMA files). Discs created with an option such as ″keep disc open after writing″ are most likely multisession discs. The use of multisession for CD audio or MP3/WMA playback may result in longer disc loading times.

If a disc contains multi-formats, such as CD audio and MP3/WMA tracks, the radio will only play the MP3/WMA tracks on that disc.

Supported MP3/WMA File Formats

The radio will recognize only files with the *.MP3/WMA extension as MP3/WMA files. Non-MP3/WMA files named with the *.MP3/WMA extension may cause playback problems. The radio is designed to recognize the file as an invalid MP3/WMA and will not play the file.

When using the MP3/WMA encoder to compress audio data to an MP3/WMA file, the bit rate and sampling frequencies in the following table are supported. In addition, variable bit rates (VBR) are also supported. The majority of MP3/WMA files use a 44.1 kHz sampling rate and a 192, 160, 128, 96 or VBR bit rates.

MPEG Specification	Sampling Frequency (kHz)	Bit Rate (kbps)
MPEG-1 Audio Layer 3	48, 44.1, 32	320, 256, 224, 192, 160, 128, 112, 96, 80, 64, 56, 48
MPEG-2 Audio Layer 3	24, 22.05, 16	160, 128, 144, 112, 96, 80, 64, 56, 48

WMA Specification	Sampling Frequency (kHz)	Bit Rate (kbps)
WMA	44.1 and 48	48, 64, 96, 128, 160, 192 VBR

ID3 Tag information for artist, song title, and album title are supported for ID3 version 1 tags. ID3 version 2 is not supported by the radios.

Playlist files are not supported. MP3 Pro files are not supported.

Playback of MP3/WMA Files

When a medium containing MP3/WMA data is loaded, the radio checks all files on the medium. If the medium contains a lot of folders or files, the radio will take more time to start playing the MP3/WMA files.

Loading times for playback of MP3/WMA files may be affected by the following:

- Media - CD-RW media may take longer to load than CD-R media
- Medium formats - Multisession discs may take longer to load than non-multisession discs
- Number of files and folders - Loading times will increase with more files and folders

To increase the speed of disc loading, it is recommended to use CD-R media and single-session discs. To create a single-session disc, enable the "Disc at Once" option before writing to the disc.

LIST Button (DISC Mode for MP3/WMA Play)

Pressing the LIST button will bring up a list of all folders on the disc. Scrolling up or down the list is done by turning the TUNE/SCROLL control knob. Selecting a folder by pressing the TUNE/SCROLL control knob will begin playing the files contained in that folder (or the next folder in sequence if the selection does not contain playable files).

The folder list will time out after five seconds.

INFO Button (DISC Mode for MP3/WMA Play)

Pressing the INFO button repeatedly will scroll through the following TAG information: Song Title, Artist, File Name, and Folder Name (if available).

Press the INFO button once more to return to "elapsed time" priority mode.

Press and hold the INFO button for three seconds or more and radio will display song titles for each file.

Press and hold the INFO button again for three seconds to return to "elapsed time" display.

Operation Instructions - Auxiliary Mode
The auxiliary (AUX) jack is an audio input jack which allows the user to plug in a portable device such as an MP3/WMA player, cassette player, or microphone and utilize the vehicle's audio system to amplify the source and play through the vehicle speakers.

Pressing the AUX button will change the mode to auxiliary device if the AUX jack is connected.

NOTE: The AUX device must be turned on and the device's volume set to the proper level. If the AUX audio is not loud enough, turn the device's volume up. If the AUX audio sounds distorted, turn the device's volume down.

SEEK Button (Auxiliary Mode)
No function.

SCAN Button (Auxiliary Mode)
No function.

EJECT Button (Auxiliary Mode)
No function.

TIME Button (Auxiliary Mode)
Press the TIME button to change the display from elapsed playing time to time of day. The time of day will display for five seconds.

RW/FF (Auxiliary Mode)
No function.

SET Button (Auxiliary Mode)
No function.

Operating Instructions — Voice Command System (If Equipped)
For the radio, Refer to "Voice Command" in the Uconnect™ User Manual located on the DVD for further details.

Operating Instructions - Uconnect™ Phone (If Equipped)
Refer to "Uconnect™ Phone" in the Uconnect™ User Manual located on the DVD for further details.

Operating Instructions - Video Entertainment System (VES)™ (If Equipped)
Refer to "Video Entertainment System (VES)™" in the Uconnect™ User Manual located on the DVD for further details.

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DTS™

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Uconnect™ Multimedia (Satellite Radio) — If Equipped

Satellite radio uses direct satellite-to-receiver broadcasting technology to provide clear digital sound, coast to coast. The subscription service provider is Sirius Satellite Radio. This service offers over 130 channels of music, sports, news, entertainment, and programming for children, directly from its satellites and broadcasting studios.

NOTE: Sirius service is not available in Hawaii and has limited coverage in Alaska.

System Activation

Sirius Satellite Radio service is pre-activated, and you may begin listening immediately to the one year of audio service that is included with the factory-installed satellite radio system in your vehicle. Sirius will supply a welcome kit that contains general information, including how to setup your on-line listening account. For further information, call the toll-free number 888-539-7474, or visit the Sirius web site at www.sirius.com, or at www.siriuscanada.ca for Canadian residents.

Electronic Serial Number/Sirius Identification Number (ESN/SID)

Please have the following information available when calling:

1. The Electronic Serial Number/Sirius Identification Number (ESN/SID).

2. Your Vehicle Identification Number.

To access the ESN/SID, refer to the following steps:

ESN/SID Access

With the ignition switch in the ON/RUN or ACC position and the radio on, press the SETUP button and scroll

using the TUNE/SCROLL control knob until Sirius ID is selected. Press the TUNE/SCROLL control knob and the Sirius ID number will display. The Sirius ID number display will time out in two minutes. Press any button on the radio to exit this screen.

Selecting Uconnect™ Multimedia (Satellite) Mode
Press the SAT button until "SAT" appears in the display. A CD may remain in the radio while in the Satellite radio mode.

Satellite Antenna
To ensure optimum reception, do not place items on the roof around the rooftop antenna location. Metal objects placed within the line of sight of the antenna will cause decreased performance. Larger luggage items such as bikes should be placed as far rearward as possible, within the loading design of the rack. Do not place items directly on or above the antenna.

Reception Quality
Satellite reception may be interrupted due to one of the following reasons:

- The vehicle is parked in an underground parking structure or under a physical obstacle.
- Dense tree coverage may interrupt reception in the form of short audio mutes.
- Driving under wide bridges or along tall buildings can cause intermittent reception.
- Placing objects over or too close to the antenna can cause signal blockage.

Operating Instructions - Uconnect™ Multimedia (Satellite) Mode

NOTE: The ignition switch must be in the ON/RUN or ACC position to operate the radio.

SEEK Buttons
Press and release the SEEK buttons to search for the next channel in Satellite mode. Press the right switch to seek up and the left switch to seek down. The radio will remain tuned to the new channel until you make another selection. Holding either button will bypass channels without stopping until you release it.

SCAN Button
Pressing the SCAN button causes the tuner to search for the next channel, pausing for eight seconds before continuing to the next. To stop the search, press the SCAN button a second time.

INFO Button
Pressing the INFO button will cycle the display information between Artist, Song Title, and Composer (if available). Also, pressing and holding the INFO button for an additional three seconds will make the radio display the Song Title all of the time (press and hold again to return to normal display).

RW/FF
Pressing the RW (Rewind) or FF (Fast Forward) buttons causes the tuner to search for the next channel in the direction of the arrows.

TUNE Control (Rotary)
Turn the rotary TUNE/SCROLL control knob clockwise to increase or counterclockwise to decrease the channel.

MUSIC TYPE Button
Pressing this button once will turn on the Music Type mode for five seconds. Pressing the MUSIC TYPE button or turning the TUNE/SCROLL control knob within five seconds will allow the program format type to be selected.

Toggle the MUSIC TYPE button again to select the music type.

By pressing the SEEK button when the Music Type function is active, the radio will be tuned to the next channel with the same selected Music Type name.

If a preset button is activated while in the Music Type (Program Type) mode, the Music Type mode will be exited and the radio will tune to the preset channel.

SETUP Button

Pressing the SETUP button allows you to select the following items:

- Display Sirius ID number — Press the AUDIO/ SELECT button to display the Sirius ID number. This number is used to activate, deactivate, or change the Sirius subscription.

SET Button – To Set the Pushbutton Memory

When you are receiving a channel that you wish to commit to pushbutton memory, press the SET button. The symbol SET 1 will now show in the display window. Select the button (1-6) you wish to lock onto this channel and press and release that button. If a button is not selected within five seconds after pressing the SET button, the channel will continue to play but will not be stored into pushbutton memory.

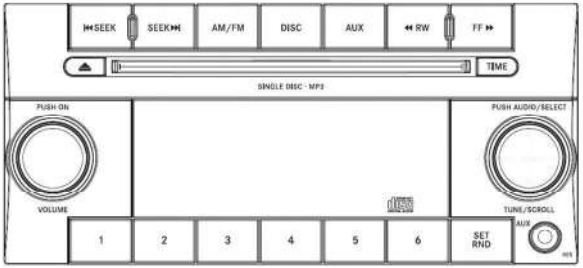
You may add a second channel to each pushbutton by repeating the above procedure with this exception: Press the SET button twice and SET 2 will show in the display window. Each button can be set for SET 1 and SET 2. This allows a total of 12 Satellite channels to be stored into pushbutton memory. The channels stored in SET 2 memory can be selected by pressing the pushbutton twice.

Every time a preset button is used, a corresponding button number will display.

Buttons 1 - 6
These buttons tune the radio to the channels that you commit to pushbutton memory (12 Satellite stations).

MEDIA CENTER 130 (SALES CODE RES)

NOTE: The radio sales code is located on the lower right side of the radio faceplate.



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Media Center 130 (RES)

Operating Instructions — Radio Mode

NOTE: The ignition switch must be in the ON or ACC position to operate the radio.

Power Switch/Volume Control (Rotary)
Push the ON/VOLUME control knob to turn on the radio. Push the ON/VOLUME control knob a second time to turn off the radio.

Electronic Volume Control
The electronic volume control turns continuously (360 degrees) in either direction, without stopping. Turning the ON/VOLUME control knob to the right increases the volume, and to the left decreases it.

When the audio system is turned on, the sound will be set at the same volume level as last played.

SEEK Buttons
Press and release the SEEK buttons to search for the next listenable station in AM/FM mode. Press the right switch to seek up and the left switch to seek down. The radio will remain tuned to the new station until you make another selection. Holding either button will bypass stations without stopping, until you release it.

TIME Button
Press the TIME button to alternate display of the time and radio frequency.

Clock Setting Procedure

1. Press and hold the TIME button until the hours blink.

2. Adjust the hours by turning the right side TUNE/SCROLL control knob.

3. After adjusting the hours, press the right side TUNE/SCROLL control knob to set the minutes. The minutes will begin to blink.

4. Adjust the minutes using the right side TUNE/SCROLL control knob. Press the TUNE/SCROLL control knob to save time change.

5. To exit, press any button/knob, or wait five seconds.

RW/FF
Pressing the RW (Rewind) or FF (Fast Forward) buttons causes the tuner to search for the next frequency in the direction of the arrows. This feature operates in either AM or FM frequencies.

TUNE Control
Turn the rotary TUNE/SCROLL control knob clockwise to increase or counterclockwise to decrease the frequency.

Setting the Tone, Balance, and Fade
Push the rotary TUNE/SCROLL control knob and BASS will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the bass tones.

Push the rotary TUNE/SCROLL control knob a second time and MID will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the mid-range tones.

Push the rotary TUNE/SCROLL control knob a third time and TREBLE will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the treble tones.

Push the rotary TUNE/SCROLL control knob a fourth time and BALANCE will display. Turn the TUNE/SCROLL control knob to the right or left to adjust the sound level from the right or left side speakers.

Push the rotary TUNE/SCROLL control knob a fifth time and FADE will display. Turn the TUNE/SCROLL control knob to the left or right to adjust the sound level between the front and rear speakers.

Push the rotary TUNE/SCROLL control knob again to exit setting tone, balance, and fade.

AM/FM Button
Press the buttons to select either AM or FM mode.

SET/RND Button — To Set the Pushbutton Memory

When you are receiving a station that you wish to commit to pushbutton memory, press the SET/RND button. The symbol SET 1 will now show in the display window. Select the button (1 to 6) you wish to lock onto this station and press and release that button. If a button is not selected within five seconds after pressing the SET/RND button, the station will continue to play but will not be stored into pushbutton memory.

You may add a second station to each pushbutton by repeating the above procedure with this exception: Press the SET/RND button twice and SET 2 will show in the display window. Each button can be set for SET 1 and SET 2 in both AM and FM. This allows a total of 12 AM and 12 FM stations to be stored into pushbutton memory. The stations stored in SET 2 memory can be selected by pressing the pushbutton twice.

Every time a preset button is used, a corresponding button number will display.

Buttons 1 - 6

These buttons tune the radio to the stations that you commit to pushbutton memory (12 AM and 12 FM stations).

DISC Button

Pressing the DISC button will allow you to switch from AM/FM modes to Disc modes.

Operation Instructions — CD MODE For CD And MP3 Audio Play

NOTE:

- The ignition switch must be in the ON or ACC position to operate the radio.

- This radio is capable of playing compact discs (CD), recordable compact discs (CD-R), rewritable compact discs (CD-RW), compact discs with MP3 tracks and multisession compact discs with CD and MP3 tracks.

Inserting Compact Disc(s)

Gently insert one CD into the CD player with the CD label facing up. The CD will automatically be pulled into the CD player and the CD icon will illuminate on the radio display. If a CD does not go into the slot more than 1.0 in (2.5 cm), a disc may already be loaded and must be ejected before a new disc can be loaded.

If you insert a disc with the ignition ON and the radio ON, the unit will switch from radio to CD mode and begin to play when you insert the disc. The display will show the track number, and index time in minutes and seconds. Play will begin at the start of track 1.

CAUTION!

- **This CD player will accept 4-3/4 in (12 cm) discs only. The use of other sized discs may damage the CD player mechanism.**
- **Do not use adhesive labels. These labels can peel away and jam the player mechanism.**
- **RES is a single CD player. Do not attempt to insert a second CD if one is already loaded.**
- **Dual-media disc types (one side is a DVD, the other side is a CD) should not be used, and they can cause damage to the player.**

EJECT Button - Ejecting a CD

Press the EJECT button to eject the CD.

If you have ejected a disc and have not removed it within 10 seconds, it will be reloaded. If the CD is not removed, the radio will reinsert the CD but will not play it.

A disc can be ejected with the radio and ignition OFF.

NOTE: Ejecting with the ignition OFF is not allowed on convertible or soft-top models (if equipped).

SEEK Button
Press the right SEEK button for the next selection on the CD. Press the left SEEK button to return to the beginning of the current selection, or return to the beginning of the previous selection if the CD is within the first second of the current selection. Pressing and holding the SEEK button will allow faster scrolling through the tracks in CD and MP3 modes.

TIME Button
Press this button to change the display from a large CD playing time display to a small CD playing time display.

RW/FF
Press and hold the FF (Fast Forward) button and the CD player will begin to fast forward until FF is released, or RW or another CD button is pressed. The RW (Reverse) button works in a similar manner.

AM/FM Button
Press the button to select either AM or FM mode.

SET/RND Button (Random Play Button)
Press this button while the CD is playing to activate Random Play. This feature plays the selections on the compact disc in random order to provide an interesting change of pace.

Press the right SEEK button to move to the next randomly selected track.

Press the RND button a second time to stop Random Play.

Notes on Playing MP3 Files

The radio can play MP3 files; however, acceptable MP3 file recording media and formats are limited. When writing MP3 files, pay attention to the following restrictions.

Supported Media (Disc Types)

The MP3 file recording media supported by the radio are CDDA, CD-R, CD-RW, MP3, and CDDA+MP3.

Supported Medium Formats (File Systems)

The medium formats supported by the radio are ISO 9660 Level 1 and Level 2 and includes the Joliet extension. When reading discs recorded using formats other than ISO 9660 Level 1 and Level 2, the radio may fail to read files properly and may be unable to play the file normally. UDF and Apple HFS formats are not supported.

The radio uses the following limits for file systems:

- Maximum number of folder levels: 8
- Maximum number of files: 255
- Maximum number of folders. (The radio display of file names and folder names is limited. For large numbers of files and/or folders, the radio may be unable to display the file name and folder name, and will assign a number instead. With a maximum number of files, exceeding 20 folders will result in this display. With 200 files, exceeding 50 folders will result in this display.)
- Maximum number of characters in file/folder names:
  - Level 1: 12 (including a separator "." and a three-character extension)
  - Level 2: 31 (including a separator "." and a three-character extension)

Multisession disc formats are supported by the radio. Multisession discs may contain combinations of normal CD audio tracks and computer files (including MP3 files).

Discs created with an option such as "keep disc open after writing" are most likely multisession discs. The use of multisession for CD audio or MP3 playback may result in longer disc loading times.

Supported MP3 File Formats

The radio will recognize only files with the *.MP3 extension as MP3 files. Non-MP3 files named with the *.MP3 extension may cause playback problems. The radio is designed to recognize the file as an invalid MP3 and will not play the file.

When using the MP3 encoder to compress audio data to an MP3 file, the bit rate and sampling frequencies in the following table are supported. In addition, variable bit rates (VBR) are also supported. The majority of MP3 files use a 44.1 kHz sampling rate and a 192, 160, 128, 96 or VBR bit rate.

MPEG Specification	Sampling Frequency (kHz)	Bit Rate (kbps)
MPEG-1 Audio Layer 3	48, 44.1, 32	320, 256, 224, 192, 160, 128, 112, 96, 80, 64, 56, 48, 40, 32
MPEG-2 Audio Layer 3	24, 22.05, 16	160, 128, 144, 112, 96, 80, 64, 56, 48, 40, 32, 24, 16, 8

ID3 Tag information for artist, song title, and album title are supported for version 1 ID3 tags. ID3 version 2 is not supported by the radios.

Playlist files are not supported. MP3 Pro files are not supported.

Playback of MP3 Files

When a medium containing MP3 data is loaded, the radio checks all files on the medium. If the medium contains a lot of folders or files, the radio will take more time to start playing the MP3 files.

Loading times for playback of MP3 files may be affected by the following:

- Media - CD-RW media may take longer to load than CD-R media
- Medium formats - Multisession discs may take longer to load than non-multisession discs
- Number of files and folders - Loading times will increase with more files and folders

To increase the speed of disc loading, it is recommended to use CD-R media and single-session discs. To create a single-session disc, enable the "Disc at Once" option before writing to the disc.

Operation Instructions - Auxiliary Mode

The auxiliary (AUX) jack is an audio input jack, which allows the user to plug in a portable device, such as an MP3 player, or cassette player, and utilize the vehicle's audio system to amplify the source and play through the vehicle speakers.

Pressing the DISC/AUX button will change the mode to auxiliary device if the AUX jack is connected.

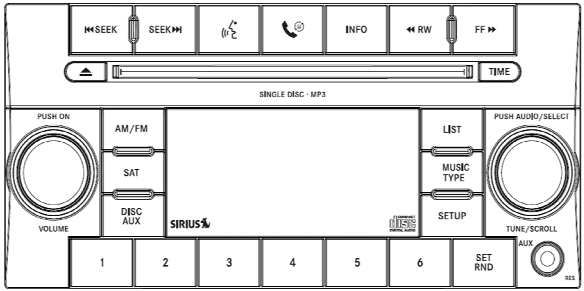
NOTE: The AUX device must be turned on and the device's volume set to proper level. If the AUX audio is not loud enough, turn the device's volume up. If the AUX audio sounds distorted, turn the device's volume down.

TIME Button (Auxiliary Mode)

Press this button to change the display to time of day. The time of day will display for five seconds (when ignition is OFF).

MEDIA CENTER 130 WITH SATELLITE RADIO (SALES CODE RES+RSC)

NOTE: The radio sales code is located on the lower right side of the radio faceplate.



Media Center 130 (RES/RSC)

Operating Instructions — Radio Mode

NOTE: The ignition switch must be in the ON/RUN or ACC position to operate the radio.

Power Switch/Volume Control (Rotary)

Push the ON/VOLUME control knob to turn on the radio. Push the ON/VOLUME control knob a second time to turn off the radio.

Electronic Volume Control

The electronic volume control turns continuously (360 degrees) in either direction without stopping. Turning the ON/VOLUME control knob to the right increases the volume and to the left decreases it.

When the audio system is turned on, the sound will be set at the same volume level as last played.

SEEK Buttons
Press and release the SEEK buttons to search for the next listenable station in AM/FM mode. Press the right switch to seek up and the left switch to seek down. The radio will remain tuned to the new station until you make another selection. Holding either button will bypass stations without stopping until you release it.

Voice Command System (Radio) — If Equipped
Refer to "Voice Command" in the Uconnect™ User Manual located on the DVD for further details.

Voice Command Button Uconnect™ Phone — If Equipped
Press this button to operate the Uconnect™ Phone feature (if equipped). Refer to "Voice Command" in the Uconnect™ User Manual located on the DVD for further details.

If your vehicle is not equipped with or this feature is not available on your vehicle, a "Not Equipped With Uconnect Phone" message will display on the radio screen.

Phone Button Uconnect™ Phone — If Equipped
Press this button to operate the Uconnect™ Phone feature (if equipped). Refer to "Uconnect™ Phone" in the Uconnect™ User Manual located on the DVD for further details.

If your vehicle is not equipped with or this feature is not available on your vehicle, a "Not Equipped With Uconnect Phone" message will display on the radio screen.

TIME Button
Press the TIME button to alternate display of the time and radio frequency.

Clock Setting Procedure

1. Press and hold the TIME button until the hours blink.

2. Adjust the hours by turning the right side TUNE/SCROLL control knob.

3. After adjusting the hours, press the right side TUNE/SCROLL control knob to set the minutes. The minutes will begin to blink.

4. Adjust the minutes using the right side TUNE/SCROLL control knob. Press the TUNE/SCROLL control knob to save time change.

5. To exit, press any button/knob or wait five seconds.

The clock can also be set by pressing the SETUP button. For vehicles equipped with satellite radio, press the SETUP button, use the TUNE/SCROLL control to select SET CLOCK, and then follow the above procedure, starting at Step 2. For vehicles not equipped with satellite radio, press the SETUP button and then follow the above procedure, starting at Step 2.

INFO Button

Press the INFO button for an RDS station (one with call letters displayed). The radio will return a Radio Text message broadcast from an FM station (FM mode only).

RW/FF

Pressing the RW (Rewind) or FF (Fast Forward) buttons causes the tuner to search for the next frequency in the direction of the arrows. This feature operates in either AM or FM frequencies.

TUNE Control

Turn the rotary TUNE/SCROLL control knob clockwise to increase or counterclockwise to decrease the frequency.

Setting the Tone, Balance, and Fade

Push the rotary TUNE/SCROLL control knob and BASS will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the bass tones.

Push the rotary TUNE/SCROLL control knob a second time and MID will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the mid-range tones.

Push the rotary TUNE/SCROLL control knob a third time and TREBLE will display. Turn the TUNE/SCROLL control knob to the right or left to increase or decrease the treble tones.

Push the rotary TUNE/SCROLL control knob a fourth time and BALANCE will display. Turn the TUNE/SCROLL control knob to the right or left to adjust the sound level from the right or left side speakers.

Push the rotary TUNE/SCROLL control knob a fifth time and FADE will display. Turn the TUNE/SCROLL control knob to the left or right to adjust the sound level between the front and rear speakers.

Push the rotary TUNE/SCROLL control knob again to exit setting tone, balance, and fade.

MUSIC TYPE Button

Pressing this button once will turn on the Music Type mode for five seconds. Pressing the MUSIC TYPE button or turning the TUNE/SCROLL control knob within five seconds will allow the program format type to be selected. Many radio stations do not currently broadcast Music Type information.

Toggle the MUSIC TYPE button to select the following format types:

Program Type	16-Digit Character Display
No program type or undefined	None
Adult Hits	Adlt Hit
Classical	Classicl
Classic Rock	Cls Rock
College	College
Country	Country
Foreign Language	Language
Information	Inform
Jazz	Jazz
News	News
Nostalgia	Nostalga
Oldies	Oldies
Personality	Persnlty
Public	Public
Rhythm and Blues	R & B
Religious Music	Rel Musc
Religious Talk	Rel Talk
Rock	Rock
Soft	Soft
Soft Rock	Soft Rck
Soft Rhythm and Blues	Soft R&B
Sports	Sports
Talk	Talk
Top 40	Top 40
Weather	Weather

By pressing the SEEK button when the Music Type icon is displayed, the radio will be tuned to the next frequency station with the same selected Music Type name. The Music Type function only operates when in the FM mode.

If a preset button is activated while in the Music Type (Program Type) mode, the Music Type mode will be exited and the radio will tune to the preset station.

SETUP Button

Pressing the SETUP button allows you to select between the following items:

- **Set Clock** — Pressing the SELECT button will allow you to set the clock. Adjust the hours by turning the TUNE/SCROLL control knob. After adjusting the hours, press the TUNE/SCROLL control knob to set the minutes. The minutes will begin to blink. Adjust the minutes using the right side TUNE/SCROLL control knob. Press the TUNE/SCROLL control knob to save time change.

AM/FM Button

Press the button to select either AM or FM mode.

SET/RND Button — To Set the Pushbutton Memory

When you are receiving a station that you wish to commit to pushbutton memory, press the SET/RND button. The symbol SET 1 will now show in the display window. Select the button (1–6) you wish to lock onto this station and press and release that button. If a button is not selected within five seconds after pressing the SET/RND button, the station will continue to play but will not be stored into pushbutton memory.

You may add a second station to each pushbutton by repeating the above procedure with this exception: Press the SET/RND button twice and SET 2 will show in the display window. Each button can be set for SET 1 and SET 2 in both AM and FM. This allows a total of 12 AM and 12 FM stations to be stored into pushbutton memory. The stations stored in SET 2 memory can be selected by pressing the pushbutton twice.

Every time a preset button is used, a corresponding button number will display.

Buttons 1 - 6
These buttons tune the radio to the stations that you commit to pushbutton memory (12 AM and 12 FM stations).

DISC/AUX Button
Pressing the DISC/AUX button will allow you to switch from AM/FM modes to DISC/AUX mode.

Operation Instructions — CD MODE for CD and MP3 Audio Play

NOTE:

- The ignition switch must be in the ON/RUN or ACC position to operate the radio.
- This radio is capable of playing compact discs (CD), recordable compact discs (CD-R), rewritable compact discs (CD-RW), compact discs with MP3 tracks and multisession compact discs with CD and MP3 tracks.

Inserting Compact Disc(s)
Gently insert one CD into the CD player with the CD label facing up. The CD will automatically be pulled into the CD player and the CD icon will illuminate on the radio display. If a CD does not go into the slot more than 1.0 in (2.5 cm), a disc may already be loaded and must be ejected before a new disc can be loaded.

If you insert a disc with the ignition ON/RUN and the radio ON, the unit will switch from radio to CD mode and begin to play when you insert the disc. The display will show the track number, and index time in minutes and seconds. Play will begin at the start of track 1.

CAUTION!

- **This CD player will accept 4–3/4 in (12 cm) discs only. The use of other sized discs may damage the CD player mechanism.**
- **Do not use adhesive labels. These labels can peel away and jam the player mechanism.**
- **RES is a single CD player. Do not attempt to insert a second CD if one is already loaded.**
- **Dual-media disc types (one side is a DVD, the other side is a CD) should not be used, and they can cause damage to the player.**

EJECT Button - Ejecting a CD

Press the EJECT button to eject the CD.

If you have ejected a disc and have not removed it within 10 seconds, it will be reloaded. If the CD is not removed, the radio will reinsert the CD but will not play it.

A disc can be ejected with the radio and ignition OFF.

NOTE: Ejecting with the ignition OFF is not allowed on convertible or soft-top models (if equipped).

SEEK Button

Press the right SEEK button for the next selection on the CD. Press the left SEEK button to return to the beginning of the current selection, or return to the beginning of the previous selection if the CD is within the first second of the current selection. Pressing and holding the SEEK button will allow faster scrolling through the tracks in CD and MP3 modes.

TIME Button
Press this button to change the display from a large CD playing time display to a small CD playing time display.

RW/FF
Press and hold FF (Fast Forward) and the CD player will begin to fast forward until FF is released or RW or another CD button is pressed. The RW (Reverse) button works in a similar manner.

AM/FM Button
Press the button to select either AM or FM mode.

SET/RND Button (Random Play Button)
Press this button while the CD is playing to activate Random Play. This feature plays the selections on the compact disc in random order to provide an interesting change of pace.

Press the right SEEK button to move to the next randomly selected track.

Press the SET/RND button a second time to stop Random Play.

Notes On Playing MP3 Files

The radio can play MP3 files; however, acceptable MP3 file recording media and formats are limited. When writing MP3 files, pay attention to the following restrictions.

Supported Media (Disc Types)
The MP3 file recording media supported by the radio are CDDA, CD-R, CD-RW, MP3, and CDDA+MP3.

Supported Medium Formats (File Systems)
The medium formats supported by the radio are ISO 9660 Level 1 and Level 2 and includes the Joliet extension. When reading discs recorded using formats other than ISO 9660 Level 1 and Level 2, the radio may fail to read files properly and may be unable to play the file normally. UDF and Apple HFS formats are not supported.

The radio uses the following limits for file systems:

- Maximum number of folder levels: 8
- Maximum number of files: 255
- Maximum number of folders. (The radio display of file names and folder names is limited. For large numbers of files and/or folders, the radio may be unable to display the file name and folder name and will assign a number instead. With a maximum number of files, exceeding 20 folders will result in this display. With 200 files, exceeding 50 folders will result in this display.)
- Maximum number of characters in file/folder names:
  - Level 1: 12 (including a separator "." and a three-character extension)
  - Level 2: 31 (including a separator "." and a three-character extension)

Multisession disc formats are supported by the radio. Multisession discs may contain combinations of normal CD audio tracks and computer files (including MP3 files). Discs created with an option such as "keep disc open after writing" are most likely multisession discs. The use of multisession for CD audio or MP3 playback may result in longer disc loading times.

Supported MP3 File Formats

The radio will recognize only files with the *.MP3 extension as MP3 files. Non-MP3 files named with the *.MP3 extension may cause playback problems. The radio is designed to recognize the file as an invalid MP3 and will not play the file.

When using the MP3 encoder to compress audio data to an MP3 file, the bit rate and sampling frequencies in the following table are supported. In addition, variable bit

rates (VBR) are also supported. The majority of MP3 files use a 44.1 kHz sampling rate and a 192, 160, 128, 96 or VBR bit rates.

MPEG Specification	Sampling Frequency (kHz)	Bit Rate (kbps)
MPEG-1 Audio Layer 3	48, 44.1, 32	320, 256, 224, 192, 160, 128, 112, 96, 80, 64, 56, 48, 40, 32
MPEG-2 Audio Layer 3	24, 22.05, 16	160, 128, 144, 112, 96, 80, 64, 56, 48, 40, 32, 24, 16, 8

ID3 Tag information for artist, song title, and album title are supported for version 1 ID3 tags. ID3 version 2 is not supported by the radios.

Playlist files are not supported. MP3 Pro files are not supported.

Playback of MP3 Files

When a medium containing MP3 data is loaded, the radio checks all files on the medium. If the medium contains a lot of folders or files, the radio will take more time to start playing the MP3 files.

Loading times for playback of MP3 files may be affected by the following:

- Media - CD-RW media may take longer to load than CD-R media
- Medium formats - Multisession discs may take longer to load than non-multisession discs
- Number of files and folders - Loading times will increase with more files and folders

To increase the speed of disc loading, it is recommended to use CD-R media and single-session discs. To create a single-session disc, enable the “Disc at Once” option before writing to the disc.

LIST Button (CD Mode for MP3 Play)

Pressing the LIST button will bring up a list of all folders on the disc. Scrolling up or down the list is done by turning the TUNE/SCROLL control knob. Selecting a folder by pressing the TUNE/SCROLL control knob will begin playing the files contained in that folder (or the next folder in sequence if the selection does not contain playable files).

The folder list will time out after five seconds.

INFO Button (CD Mode for MP3 Play)

Pressing the INFO button repeatedly will scroll through the following TAG information: Song Title, Artist, File Name, and Folder Name (if available).

Press the INFO button once more to return to "elapsed time" priority mode.

Press and hold the INFO button for three seconds or more and the radio will display song titles for each file.

Press and hold the INFO button again for three seconds to return to "elapsed time" display.

Operation Instructions - Auxiliary Mode

The auxiliary (AUX) jack is an audio input jack which allows the user to plug in a portable device such as an MP3 player or cassette player and utilize the vehicle's audio system to amplify the source and play through the vehicle speakers.

Pressing the AUX button will change the mode to auxiliary device if the AUX jack is connected.

NOTE: The AUX device must be turned on and the device's volume set to the proper level. If the AUX audio is not loud enough, turn the device's volume up. If the AUX audio sounds distorted, turn the device's volume down.

TIME Button (Auxiliary Mode)
Press this button to change the display to time of day. The time of day will display for five seconds (when the ignition is OFF).

Uconnect™ Multimedia (Satellite Radio) — If Equipped

Satellite radio uses direct satellite-to-receiver broadcasting technology to provide clear digital sound, coast to coast. The subscription service provider is Sirius Satellite Radio. This service offers over 130 channels of music, sports, news, entertainment, and programming for children, directly from its satellites and broadcasting studios.

NOTE: Sirius service is not available in Hawaii and has limited coverage in Alaska.

System Activation
Sirius Satellite Radio service is pre-activated, and you may begin listening immediately to the one year of audio service that is included with the factory-installed satellite radio system in your vehicle. Sirius will supply a welcome kit that contains general information, including how to setup your on-line listening account. For further information, call the toll-free number 888-539-7474, or visit the Sirius web site at www.sirius.com, or at www-.siriuscanada.ca for Canadian residents.

Electronic Serial Number/Sirius Identification Number (ESN/SID)
Please have the following information available when calling:

1. The Electronic Serial Number/Sirius Identification Number (ESN/SID).

2. Your Vehicle Identification Number.

To access the ESN/SID, refer to the following steps:

ESN/SID Access
With the ignition switch in the ON/RUN or ACC position and the radio on, press the SETUP button and scroll

using the TUNE/SCROLL control knob until Sirius ID is selected. Press the TUNE/SCROLL control knob and the Sirius ID number will display. The Sirius ID number display will time out in two minutes. Press any button on the radio to exit this screen.

Selecting Uconnect™ Multimedia (Satellite) Mode
Press the SAT button until "SAT" appears in the display. A CD may remain in the radio while in the Satellite radio mode.

Satellite Antenna
To ensure optimum reception, do not place items on the roof around the rooftop antenna location. Metal objects placed within the line of sight of the antenna will cause decreased performance. Larger luggage items such as bikes should be placed as far rearward as possible, within the loading design of the rack. Do not place items directly on or above the antenna.

Reception Quality
Satellite reception may be interrupted due to one of the following reasons:

- The vehicle is parked in an underground parking structure or under a physical obstacle.
- Dense tree coverage may interrupt reception in the form of short audio mutes.
- Driving under wide bridges or along tall buildings can cause intermittent reception.
- Placing objects over or too close to the antenna can cause signal blockage.

Operating Instructions - Uconnect™ Multimedia (Satellite) Mode

NOTE: The ignition switch must be in the ON/RUN or ACC position to operate the radio.

SEEK Buttons
Press and release the SEEK buttons to search for the next channel in Satellite mode. Press the right switch to seek up and the left switch to seek down. The radio will remain tuned to the new channel until you make another selection. Holding either button will bypass channels without stopping until you release it.

SCAN Button
Pressing the SCAN button causes the tuner to search for the next channel, pausing for eight seconds before continuing to the next. To stop the search, press the SCAN button a second time.

INFO Button
Pressing the INFO button will cycle the display information between Artist, Song Title, and Composer (if available). Also, pressing and holding the INFO button for an additional three seconds will make the radio display the Song Title all of the time (press and hold again to return to normal display).

RW/FF
Pressing the RW (Rewind) or FF (Fast Forward) buttons causes the tuner to search for the next channel in the direction of the arrows.

TUNE Control (Rotary)
Turn the rotary TUNE/SCROLL control knob clockwise to increase or counterclockwise to decrease the channel.

MUSIC TYPE Button
Pressing this button once will turn on the Music Type mode for five seconds. Pressing the MUSIC TYPE button or turning the TUNE/SCROLL control knob within five seconds will allow the program format type to be selected.

Toggle the MUSIC TYPE button again to select the music type.

By pressing the SEEK button when the Music Type function is active, the radio will be tuned to the next channel with the same selected Music Type name.

If a preset button is activated while in the Music Type (Program Type) mode, the Music Type mode will be exited and the radio will tune to the preset channel.

SETUP Button

Pressing the SETUP button allows you to select the following items:

- Display Sirius ID number — Press the AUDIO/ SELECT button to display the Sirius ID number. This number is used to activate, deactivate, or change the Sirius subscription.

SET Button – To Set the Pushbutton Memory

When you are receiving a channel that you wish to commit to pushbutton memory, press the SET button. The symbol SET 1 will now show in the display window. Select the button (1-6) you wish to lock onto this channel and press and release that button. If a button is not selected within five seconds after pressing the SET button, the channel will continue to play but will not be stored into pushbutton memory.

You may add a second channel to each pushbutton by repeating the above procedure with this exception: Press the SET button twice and SET 2 will show in the display window. Each button can be set for SET 1 and SET 2. This allows a total of 12 Satellite channels to be stored into pushbutton memory. The channels stored in SET 2 memory can be selected by pressing the pushbutton twice.

Every time a preset button is used, a corresponding button number will display.

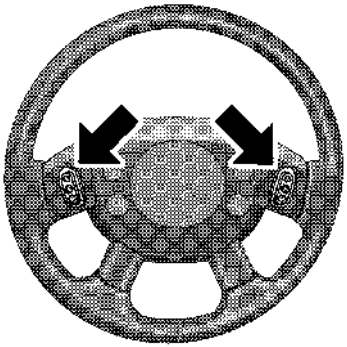
Buttons 1 - 6
These buttons tune the radio to the channels that you commit to pushbutton memory (12 Satellite stations).

Operating Instructions (Uconnect™ Phone) — If Equipped

Refer to "Uconnect™ Phone" in the Uconnect™ User Manual located on the DVD for further details.

STEERING WHEEL AUDIO CONTROLS — IF EQUIPPED

The remote sound system controls are located on the rear surface of the steering wheel. Reach behind the wheel to access the switches.



Remote Sound System Controls (Back View Of Steering Wheel)

The right hand control is a rocker type switch with a push button in the center. Pressing the top of the switch will increase the volume, and pressing the bottom of the switch will decrease the volume.

The button located in the center of the right hand control will switch modes to Radio or CD.

The left hand control is a rocker type switch with a push button in the center. The function of the left hand control is different depending on which mode you are in.

The following describes the left hand control operation in each mode.

Radio Operation

Pressing the top of the switch will SEEK up for the next listenable station and pressing the bottom of the switch will SEEK down for the next listenable station.

The button located in the center of the left hand control will tune to the next pre-set station that you have programmed in the radio pre-set push-buttons.

CD Player

Pressing the top of the switch once will go to the next track on the CD. Pressing the bottom of the switch once will go to the beginning of the current track or to the beginning of the previous track if it is within one second after the current track begins to play.

If you press the switch up or down twice it plays the second track, three times, it will play the third, etc.

The button in the center of the left hand switch changes CD's on the 6–Disc in-dash CD changer radio. This button does not function for all other radios.

CD/DVD DISC MAINTENANCE

To keep a CD/DVD in good condition, take the following precautions:

1. Handle the disc by its edge; avoid touching the surface.

2. If the disc is stained, clean the surface with a soft cloth, wiping from center to edge.

3. Do not apply paper or tape to the disc; avoid scratching the disc.

4. Do not use solvents such as benzene, thinner, cleaners, or anti-static sprays.

5. Store the disc in its case after playing.

6. Do not expose the disc to direct sunlight.

7. Do not store the disc where temperatures may become too high.

NOTE: If you experience difficulty in playing a particular disc, it may be damaged (i.e., scratched, reflective coating removed, a hair, moisture or dew on the disc) oversized, or have protection encoding. Try a known good disc before considering disc player service.

RADIO OPERATION AND MOBILE PHONES

Under certain conditions, the mobile phone being on in your vehicle can cause erratic or noisy performance from your radio. This condition may be lessened or eliminated by relocating the mobile phone antenna. This condition is not harmful to the radio. If your radio performance does not satisfactorily "clear" by the repositioning of the antenna, it is recommended that the radio volume be turned down or off during mobile phone operation.

CLIMATE CONTROLS

The controls for the heating, ventilation and air conditioning system in this vehicle consist of a series of rotary knobs. These comfort controls can be set to obtain desired interior conditions.

Air Conditioning and Heater

Air Conditioning and Heater Control

Air Conditioning and Heater Operation

To turn on the air conditioning, set the fan control at any speed and press the SNOWFLAKE button located at the right of the control panel. Conditioned air will be directed through the outlets selected by the mode control. A light at the top of the SNOWFLAKE button shows that the air conditioning is on. Press the button a second time to turn the air conditioning off.

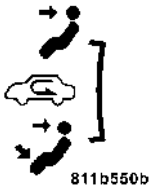
Slight changes in engine speed or power may be noticed when the air conditioning compressor is on. This is a normal occurrence as the compressor will cycle on and off to maintain comfort and increase fuel economy.

Mode Control

The Mode Control (at the right of the control panel) can be set in any of the following positions:

NOTE: To improve your selection choices, the system allows you to operate at intermediate positions between the major modes. These intermediate positions are identified by the small dots.

Recirculation Modes (Panel or Bi-Level)



Select the recirculation modes when the outside air contains dust, odors, high humidity, or if rapid cooling is desired. This feature allows for recirculation of interior air only. Air flows either through the panel outlets or both the panel and floor outlets together, depending on which recirculation mode is selected.

Panel (Fresh Air Modes)

Outside air flows through the outlets located in the instrument panel.

Bi-Level

Outside air flows through the outlets located in the instrument panel and at the floor.

Floor

Outside air flows primarily through the floor outlets located under the instrument panel.

Mix

Outside air flows in equal proportions through the floor and defroster outlets.

Defrost

Outside air is primarily directed to the windshield through the defroster outlets located at the base of the windshield, and the demister outlets located at the edge of each side of the instrument panel.

NOTE:

- The air conditioner compressor operates in both Mix and Defrost or a blend of these modes, even if the A/C button has not been pressed. This dehumidifies the air to help dry the windshield.

- For information on operating the rear defrost, refer to "Rear Window Features" in "Understanding The Features Of Your Vehicle".

Blower Control

The rotary knob on the left of the control panel is the Blower Control. Turn the knob clockwise to one of the four positions to obtain the blower speed you desire. To turn the blower off, turn the knob to the far left position.

NOTE: For vehicles equipped with Remote Start, the climate controls will not function during Remote Start operation if the blower control is left in the "O" (Off) position.

Temperature Control

The rotary knob at the center of the control panel controls the temperature of the interior air. You can choose your degree of comfort by rotating the knob. The coldest temperature setting is to the extreme left (blue region) and the warmest setting is to the extreme right (red region) of the rotation.

Circulation

The cab is designed with features to promote outside air circulation. There are grilles in the cab back panel. These are air exhausters that provide the means for regular exchange of cab air.

Side window demisters direct airflow specifically to the window glass to help prevent interior fogging of the glass. They are located in the extreme outside upper

edges of the instrument panel. The demisters also provide extra air ducts for circulation. They are in operation whenever the Floor, Mix, Defrost, or Bi-Level modes are in use.

NOTE: When you turn off the engine you may hear a hissing sound from under the hood for a short period of time. This is a normal condition that occurs if the air conditioning system has been on. It is not an indication of a problem with the air conditioning system.

Operating Tips

Fast Cooldown

For a fast cooldown, open the windows and turn the blower fan rotary knob to the extreme right position, turn the mode control to the panel fresh position, press the SNOWFLAKE button to turn on the air conditioning, and drive with the windows open for the first few minutes. Once the hot air has been expelled, close the windows and turn the mode selector to the Recirculation Panel Mode or Recirculation Mode Bi-level position. When a comfortable condition has been reached, choose a mode position and adjust the temperature control knob and blower speed as necessary to maintain comfort. For high humidity conditions it may be necessary to remain in the Recirculation mode to maintain comfort.

Window Fogging

Windows will fog on the inside when the humidity inside the vehicle is high. This often occurs in mild or cool temperatures when it's rainy or humid. In most cases turning on the Air-conditioning (pressing the SNOWFLAKE button) will clear the fog. Adjust the temperature control, air direction and blower speed to maintain comfort.

As the temperature gets colder it may be necessary to direct air onto the windshield by using MIX Mode position on the control. Adjust the temperature control and blower speed to maintain comfort. High blower

speeds will reduce fogging. Interior fogging on the windshield can be quickly removed by selecting the defrost mode.

Regular cleaning of the inside of the windows with a non-filming cleaning solution (vinegar and water works very well) will help prevent contaminates (cigarette smoke, perfumes, etc.) from sticking to the windows. Contaminates on the inside of windows can increase the rate of window fogging.

Summer Operation

Air conditioned vehicles must be protected with a high quality antifreeze coolant during summer, to provide proper corrosion protection and to raise the boiling point of the coolant for protection against overheating. A 50% concentration of engine coolant to distilled water is recommended. Refer to "Cooling System" under "Maintenance Procedures" in "Maintaining Your Vehicle".

When using the air conditioner in extremely heavy traffic, in hot weather, especially when towing a trailer, additional engine cooling may be required. If this situation is encountered, operate the transmission in a lower gear and set the air conditioner to recirculation mode. Operating the air conditioner in recirculation mode provides the maximum performance from your air conditioning. When stopped in heavy traffic, it may be necessary to shift into NEUTRAL and press the accelerator slightly for fast idle operation.

Winter Operation

When operating the system during the winter months, make sure the air intake, located directly in front of the windshield, is free of ice, slush, snow, or other obstructions. This will help prevent snow going into the ducts.

Operation Tips Chart

WEATHER	CONTROL SETTINGS
HOT WEATHER AND VEHICLE INTERIOR IS VERY HOT	Start the vehicle, open the windows and turn the blower control knob to the high position (full clockwise). Set Mode control knob at or between and . Set temperature control to full cold and press the button on. After the hot air has been expelled, close the windows and turn the mode control knob to the setting (counterclockwise) at either or , or press the button (if so equipped). Once comfortable, choose a mode position and adjust temperature control and blower speed as necessary for comfort.
WARM WEATHER	If sunny, set the Mode control at or near and press the button on. If cloudy or dark, set the Mode control at or near . No is necessary.
COOL OR COLD HUMID CONDITIONS	If sunny, set the Mode control at or between and , then press the button on. If cloudy or dark set the Mode control at or near . No is necessary.
COLD DRY CONDITIONS	In cloudy or dark weather set the Mode control at or near . If sunny, set the Mode control at or between and and for snowy or very cold weather requiring extra heat to the windshield, use .
WINDOW FOGGING	In most cases turning on the Air-Conditioning (press the button) will clear the fog, then adjust temperature control, air direction and blower speed to maintain comfort. As it gets colder it may be necessary to direct air onto the windshield. If so, set the Mode control at or and adjust temperature control and blower speed to maintain comfort. Higher blower speeds will reduce fogging.

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STARTING AND OPERATING

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STARTING PROCEDURES

Before starting your vehicle, adjust your seat, adjust both inside and outside mirrors, and fasten your seat belts.

WARNING!

Never leave children alone in a vehicle. Leaving children in a vehicle unattended is dangerous for a number of reasons. A child or others could be seriously or fatally injured. Do not leave the keys in the ignition. A child could operate power windows, other controls, or move the vehicle.

Automatic Transmission

Start the engine with the shift lever in NEUTRAL or PARK position. Apply the brake before shifting to any driving range.

NOTE: This vehicle is equipped with a transmission shift interlocking system. The brake pedal must be pressed to shift out of PARK.

Tip Start Feature

Turn the ignition switch to START position and release it as soon as the starter engages. The starter motor will continue to run, but will automatically disengage itself when the engine is running. If the engine fails to start, the starter will disengage automatically in 10 seconds. If this occurs, turn the ignition switch to the LOCK position, wait 10 to 15 seconds, then repeat the “Normal Starting” procedure.

Normal Starting

NOTE: Normal starting of either a warm or cold engine is obtained without pumping or pressing the accelerator pedal.

Turn the ignition switch to the START position and release when the engine starts. If the engine fails to start within 10 seconds, turn the key to the OFF position, wait 5 seconds, then repeat the "Normal Starting" procedure.

Extreme Cold Weather (below –20°F or –29°C)

To ensure reliable starting at these temperatures, use of an externally powered electric engine block heater (available from your dealer) is recommended.

If Engine Fails To Start

WARNING!

- **Never pour fuel or other flammable liquids into the throttle body air inlet opening in an attempt to start the vehicle. This could result in a flash fire causing serious personal injury.**

(Continued)

WARNING! (Continued)

- **Do not attempt to push or tow your vehicle to get it started. Vehicles equipped with an automatic transmission cannot be started this way. Unburned fuel could enter the catalytic converter and once the engine has started, ignite and damage the converter and vehicle. If the vehicle has a discharged battery, booster cables may be used to obtain a start from a booster battery or the battery in another vehicle. This type of start can be dangerous if done improperly. Refer to "Jump Starting" in "What To Do In Emergencies" for further information.**

If the engine fails to start after you have followed the "Normal Starting" procedure, it may be flooded. Push the accelerator pedal all the way to the floor and hold it there while cranking the engine. This should clear any excess fuel, in case the engine is flooded.

CAUTION!

To prevent damage to the starter, do not crank the engine for more than 15 seconds at a time. Wait 10 to 15 seconds before trying again.

If the engine has been flooded, it may start to run, but not have enough power to continue running when the key is released. If this occurs, continue cranking with the accelerator pedal pushed all the way to the floor. Release the accelerator pedal and the key once the engine is running smoothly.

If the engine shows no sign of starting after two 15 second periods of cranking with the accelerator pedal held to the floor, the "Normal Starting" procedure should be repeated.

After Starting

The idle speed is automatically controlled and will decrease as the engine warms up.

ENGINE BLOCK HEATER — IF EQUIPPED

The engine block heater warms the engine, and permits quicker starts in cold weather. Connect the cord to a standard 110-115 Volt AC electrical outlet with a grounded, three-wire extension cord.

The engine block heater cord is located at the right front of the engine compartment for all engine applications.

The engine block heater must be plugged in at least one hour to have an adequate warming effect on the engine.

WARNING!

Remember to disconnect the engine block heater cord before driving. Damage to the 110-115 Volt electrical cord could cause electrocution.

AUTOMATIC TRANSMISSION

CAUTION!

Damage to the transmission may occur if the following precautions are not observed:

- **Shift into PARK only after the vehicle has come to a complete stop.**
- **Shift into or out of REVERSE only after the vehicle has come to a complete stop and the engine is at idle speed.**

(Continued)

CAUTION! (Continued)

- **Do not shift from REVERSE, PARK, or NEUTRAL into any forward gear when the engine is above idle speed.**
- **Before shifting into any gear, make sure your foot is firmly on the brake pedal.**

WARNING!

It is dangerous to move the shift lever out of PARK or NEUTRAL if the engine speed is higher than idle speed. If your foot is not firmly on the brake pedal, the vehicle could accelerate quickly forward or in reverse. You could lose control of the vehicle and hit someone or something. Only shift into gear when the engine is idling normally and when your right foot is firmly on the brake pedal.

Key Ignition Park Interlock

This vehicle is equipped with a Key Ignition Park Interlock which requires the shift lever to be placed in PARK prior to rotating the key to the LOCK position. The key can only be removed from the ignition when the ignition is in the LOCK position and once removed the shift lever is locked in PARK.

Brake/Transmission Interlock System

This vehicle is equipped with a Brake Transmission Shift Interlock System (BTSI) that holds the shift lever in the PARK position when the ignition switch is in the LOCK position. To move the shift lever out of the PARK position, the ignition switch must be turned to any other switch position (ACC, ON, or START) (engine running or not) and the brake pedal must be pressed.

Automatic Transmission

The electronic PRNDL on the instrument cluster indicates the transmission gear selected. The shift lever is mounted on the right side of the steering column. To drive, move the shift lever from PARK or NEUTRAL to the desired drive position. Pull the shift lever toward you when shifting into REVERSE, SECOND, FIRST or PARK, or when shifting out of PARK.

Gear Ranges

DO NOT race the engine when shifting from PARK or NEUTRAL position into another gear range.

PARK

This range supplements the parking brake by locking the transmission. The engine can be started in this range. Never use PARK while the vehicle is in motion. Apply the parking brake when leaving the vehicle in this range. Always apply the parking brake first, then place the shift lever into the PARK position.

WARNING!

- **Never use the PARK position as a substitute for the parking brake. Always apply the parking brake fully when parked to guard against vehicle movement and possible injury or damage.**
- **It is dangerous to move the shift lever out of PARK or NEUTRAL if the engine speed is higher than idle speed. If your foot is not firmly on the brake pedal, the vehicle could accelerate quickly forward or in reverse. You could lose control of the vehicle and hit someone or something. Only shift into gear when the engine is idling normally and when your right foot is firmly on the brake pedal.**

(Continued)

WARNING! (Continued)

- **Unintended movement of a vehicle could injure those in and near the vehicle. As with all vehicles, you should never exit a vehicle while the engine is running. Before exiting a vehicle, you should always shift the transmission into PARK, remove the key from the ignition, and apply the parking brake. Once the key is removed from the ignition, the shift lever is locked in the PARK position, securing the vehicle against unwanted movement. Furthermore, you should never leave unattended children inside a vehicle.**

REVERSE
This range is for moving the vehicle backward. Use only after the vehicle has come to a complete stop.

NEUTRAL
This range is used when vehicle is standing for prolonged periods with engine running. Engine may be started in this range. Set the parking brake if you must leave the vehicle.

DRIVE
This range is for most city and highway driving.

2 (Second)
This range is for driving slowly in heavy city traffic or on mountain roads where more precise speed control is desirable, use second gear. Use it also when climbing long grades, and for engine braking when descending moderately steep grades. To prevent excessive engine speed, do not exceed 45 mph (72 km/h) in this range.

1 (First)
This range is for driving up very steep hills and for engine braking at low speeds, 25 mph (40 km/h) or less, when going down hill, use first gear. To prevent excessive engine speed do not exceed 25 mph (40 km/h) in this range.

Overdrive Operation
The Overdrive automatic transmission contains an electronically-controlled fourth and fifth (if equipped) gear (Overdrive). The transmission will automatically shift from Drive to Overdrive, if the following conditions are present:

- the shift lever is in DRIVE;
- the engine coolant has reached normal operating temperature;
- vehicle speed is above approximately 30 mph (48 km/h);

- the TOW/HAUL switch has not been activated;
- transmission has reached normal operating temperature.

NOTE:

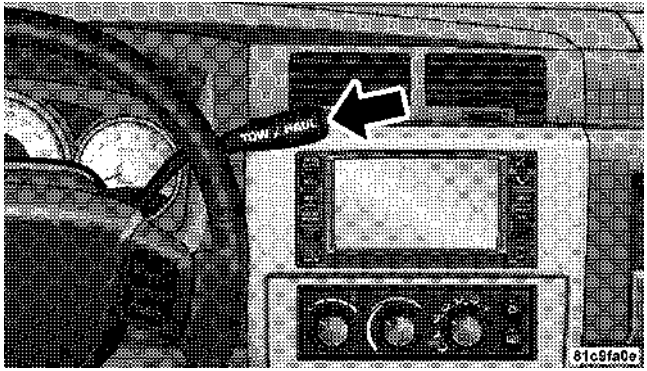
- If the vehicle is started in extremely cold temperatures, the transmission may not shift into Overdrive and will automatically select the most desirable gear for operation at this temperature. Normal operation will resume when the transmission fluid temperature has risen to a suitable level. Refer to "Torque Converter Clutch" in this section.
- If the transmission temperature gets extremely hot, the transmission will automatically select the most desirable gear for operation at this temperature. If the transmission temperature becomes hot enough, the "Transmission Temperature Warning Light" may illuminate and the transmission may downshift out of Overdrive until the transmission cools down. After cool down, the transmission will resume normal operation.

The transmission will downshift from Overdrive to DRIVE if the accelerator pedal is fully pressed at vehicle speeds above approximately 35 mph (56 km/h).

When to Use TOW/HAUL Mode

When driving in hilly areas, towing a trailer, carrying a heavy load, etc., and frequent transmission shifting occurs, press the TOW/HAUL switch. This will improve performance and reduce the potential for transmission overheating or failure due to excessive shifting. When operating in TOW/HAUL mode, top gear is disabled and some shift patterns are modified. On vehicles with five-speed transmissions, shifts into Overdrive (fourth gear) are allowed during steady cruise (for improved fuel

economy), and automatic closed-throttle downshifts to third gear (for improved braking) will occur during steady braking.



TOW/HAUL Switch

The "TOW/HAUL Indicator Light" will illuminate in the instrument cluster to indicate when the switch has been activated. Pressing the switch a second time restores normal operation. If the TOW/HAUL mode is desired, the switch must be pressed each time the engine is started.

Torque Converter Clutch

A feature designed to improve fuel economy is included in all automatic transmissions. A clutch, within the torque converter, engages automatically at a calibrated speed at light throttle. It engages at higher speeds under heavier acceleration. This may result in a slightly different feeling or response during normal operation in high gear. When the vehicle speed drops below a calibrated speed, or during acceleration, the clutch automatically and smoothly disengages. The feature is operational in Overdrive and in Drive.

NOTE:

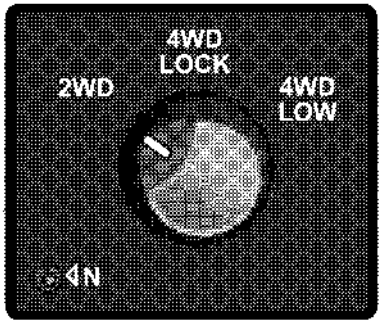
- The torque converter clutch will not engage until the transmission fluid and engine coolant are warm (usually after 1-3 miles [1.6 - 4.8 km] of driving). Because the engine speed is higher when the torque converter clutch is not engaged, it may seem as if the transmission is not shifting into Overdrive when cold. This is normal. Pressing the TOW/HAUL switch, when the transmission is sufficiently warm, will demonstrate that the transmission is able to shift into, and out of Overdrive.

- If the vehicle has not been driven in several days, the first few seconds of operation after shifting the transmission into gear may seem sluggish. This is due to the fluid partially draining from the torque converter into the transmission. This condition is normal and will not cause damage to the transmission. The torque converter will refill within five seconds of shifting from PARK into any other gear position.

FOUR-WHEEL DRIVE OPERATION — IF EQUIPPED

NV233/243 GII Transfer Case Operating Information/Precautions

The NV233/243 is an electric-shift transfer case and is operated by the transfer case switch, which is located on the instrument panel.



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Transfer Case Switch

The NV233/243 transfer case provides four mode positions:

- Two-wheel drive high range (2WD)
- Four-wheel drive lock range (4WD LOCK)
- Four-wheel drive low range (4WD LOW)
- Neutral (N)

The NV233/243 transfer case is designed to be driven in the two-wheel drive position (2WD) for normal street and highway conditions on dry hard-surfaced roads.

When additional traction is required, the transfer case 4WD LOCK and 4WD LOW positions can be used to lock the front and rear driveshafts together and force the front and rear wheels to rotate at the same speed. This is accomplished by turning the transfer case switch to the desired position - Refer to "Shifting Procedure" for further information. The 4WD LOCK and 4WD LOW positions are designed for loose or slippery road surfaces only. Driving in the 4WD LOCK and 4WD LOW positions on dry hard-surfaced roads may cause increased tire wear and damage to the driveline components.

NOTE: The transfer case NEUTRAL position is selected by pressing the recessed button located on the lower left-hand corner of the transfer case switch. The transfer case NEUTRAL position is to be used for recreational towing only. Refer to "Recreational Towing" in "Starting and Operating" for further information.

Transfer Case Position Indicator Lights

The Transfer Case Position Indicator Lights (4WD and 4LOW) are located on the instrument cluster. If there is no indicator light on or flashing, the transfer case is in two-wheel drive (2WD). If the indicator light is on, the desired position (4WD LOCK and 4WD LOW) has been obtained.

If one or more shift requirements are not met:

1. An indicator light will flash.
2. The transfer case **will not** shift.

NOTE: Before retrying a selection, make certain that all the necessary requirements for selecting a new transfer case position have been met. To retry the selection, turn the transfer case switch back to the current position, wait five seconds, and retry selection. To find the shift requirements, refer to the "Shifting Procedure" for further information.

The "SVC 4WD Warning Light" monitors the electronic shift four-wheel drive system. If this light remains on after engine start-up or illuminates during driving, it means that the four-wheel drive system is not functioning properly and that service is required.

WARNING!

Always engage the parking brake when powering down the vehicle if the "SVC 4WD Warning Light" is illuminated. Not engaging the parking brake may allow the vehicle to roll, which may cause personal injury.

NOTE: Do not attempt to make a shift while only the front or rear wheels are spinning. The NV233/243 transfer case is not equipped with a synchronizer and therefore the front and rear driveshaft speeds must be equal for the shift to take place. Shifting while only the front or rear wheels are spinning can cause damage to the transfer case.

When operating your vehicle in 4WD LOW, the engine speed is approximately three times that of the 2WD or 4WD LOCK positions at a given road speed. Take care not to overspeed the engine and do not exceed 25 mph (40 km/h).

Proper operation of four-wheel drive vehicles depends on tires of equal size, type and circumference on each wheel. Any difference in tire size can cause damage to the transfer case.

Because four-wheel drive provides improved traction, there is a tendency to exceed safe turning and stopping speeds. Do not go faster than road conditions permit.

WARNING!

You or others could be injured if you leave the vehicle unattended with the transfer case in the NEUTRAL position without first fully engaging the parking brake. The transfer case NEUTRAL position disengages both the front and rear driveshafts from the powertrain and will allow the vehicle to move regardless of the transmission position. The parking brake should always be applied when the driver is not in the vehicle.

For additional information on the appropriate use of each transfer case mode position, refer to the following information:

2WD

Rear-Wheel Drive High — This range is used for normal street and highway driving on dry, hard-surfaced roads.

4WD LOCK

Four-Wheel Drive Lock — This range locks the front and rear driveshafts together forcing the front and rear wheels to rotate at the same speed. This range provides additional traction for loose or slippery road surfaces only.

4WD LOW

Four-Wheel Drive Low — This range provides low speed four-wheel drive. It locks the front and rear driveshafts together, forcing the front and rear wheels to rotate at the same speed. This range provides additional traction and maximum pulling power for loose or slippery road surfaces only. Do not exceed 25 mph (40 km/h).

N

Neutral — This range disengages both the front and rear driveshafts from the powertrain, and is used for flat towing behind another vehicle. Refer to "Recreational Towing" in "Starting and Operating" for further information.

Shifting Procedure – NV233/243 Transfer Case

NOTE: If any of the requirements to select a new transfer case position have not been met, the transfer case will not shift, the indicator light for the previous position will remain ON, and the newly-selected position indicator light will continue to flash until all the requirements for the selected position have been met. To retry a shift: return the transfer case switch back to the original position, make certain all shift requirements have been met, wait five seconds, and try the shift again.

2WD-to-4WD LOCK or 4WD LOCK-to-2WD

Turn the transfer case switch to the desired position. Shifts between 2WD and 4WD LOCK can be done with the vehicle stopped, or in motion. With the vehicle in motion, the transfer case will engage/disengage faster if you momentarily release the accelerator pedal after turning the transfer case switch. If the vehicle is stopped, the ignition key must be in the ON position with the engine either running or OFF. This shift cannot be completed if the key is in the ACC position.

NOTE: On vehicles equipped with Anti-Lock Brake Systems, the four-wheel drive system will not allow shifts between 2WD/ 4WD LOCK if the rear wheels are spinning (no traction). In this situation, the selected position indicator light will flash and the original position indicator light will remain ON. At this time, reduce speed and stop spinning the wheels to complete the shift. There may be a delay up to 10 seconds for the shift to complete after the wheels have stopped spinning.

4WD LOCK-to-4WD LOW or 4WD LOW-to-4WD LOCK

NOTE: When shifting into or out of 4WD LOW, some gear noise may be heard. This noise is normal and is not detrimental to the vehicle or occupants.

Shifting can be performed with the vehicle rolling 2 to 3 mph (3 to 5 km/h), or completely stopped. USE EITHER OF THE FOLLOWING PROCEDURES:

Preferred Procedure

1. With the engine running, slow the vehicle to 2 to 3 mph (3 to 5 km/h).

2. Shift the transmission into NEUTRAL.

3. While still rolling, turn the transfer case switch to the desired position.

4. After the desired position indicator light is ON (not flashing), shift the transmission back into gear.

Alternate Procedure

1. Bring the vehicle to complete stop.

2. With the key ON and the engine either OFF or running, shift the transmission into NEUTRAL.

3. Turn the transfer case switch to the desired position.

4. After the desired position indicator light is ON (not flashing), shift the transmission back into gear.

NOTE:

- If Steps 1 or 2 of the Preferred or Alternate Procedure are not satisfied prior to attempting the shift, or if they no longer are being met while the shift attempt is in process, then the indicator light will flash and the current transfer case position will be maintained. To retry the selection, turn the transfer case switch back to the current position, wait five seconds, and retry shift.
- The ignition key must be ON for a shift to take place and for the position indicator lights to be operable. If the key is not ON, then the shift will not take place and no position indicator lights will be on or flashing.

LIMITED-SLIP REAR AXLE DIFFERENTIAL — IF EQUIPPED

The limited-slip differential provides additional traction on snow, ice, mud, sand and gravel. It improves traction when there is a difference between the characteristics of the surface under the right and left rear wheels. During normal driving and cornering, the limited-slip unit is similar to a conventional differential. But on a slippery surface, the differential delivers more of the driving effort to the wheel having the better traction.

WARNING!

On vehicles equipped with a limited-slip differential, never run the engine with one rear wheel off the ground. The vehicle may drive through the rear wheel remaining on the ground and cause you to lose control of the vehicle.

Care should be taken to avoid sudden accelerations when both rear wheels are on a slippery surface. This could cause both rear wheels to spin, and allow the vehicle to slide sideways on the crowned surface of a road or in a turn.

DRIVING ON SLIPPERY SURFACES

Acceleration

Rapid acceleration on snow covered, wet, or other slippery surfaces may cause the rear wheels to pull erratically to the right or left. This phenomenon occurs when there is a difference in the surface traction under the rear (driving) wheels.

WARNING!

Rapid acceleration on slippery surfaces is dangerous. Unequal traction can cause sudden pulling of the rear wheels. You could lose control of the vehicle and possibly have a collision. Accelerate slowly and carefully whenever there is likely to be poor traction (ice, snow, wet mud, loose sand, etc.).

Traction

When driving on wet or slushy roads, it is possible for a wedge of water to build up between the tire and road surface. This is known as hydroplaning and may cause partial or complete loss of vehicle control and stopping ability. To reduce this possibility, the following precautions should be observed:

1. Slow down during rainstorms or when the roads are slushy.

2. Slow down if the road has standing water or puddles.

3. Replace tires when tread wear indicators first become visible.

4. Keep tires properly inflated.

5. Maintain sufficient distance between your vehicle and the vehicle in front of you to avoid a collision in a sudden stop.

DRIVING THROUGH WATER

Driving through water more than a few inches/centimeters deep will require extra caution to ensure safety and prevent damage to your vehicle.

Flowing/Rising Water

WARNING!

Do not drive on or across a road or path where water is flowing and/or rising (as in storm run-off). Flowing water can wear away the road or path's surface and cause your vehicle to sink into deeper water. Furthermore, flowing and/or rising water can carry your vehicle away swiftly. Failure to follow this warning may result in injuries that are serious or fatal to you, your passengers, and others around you.

Shallow Standing Water

Although your vehicle is capable of driving through shallow standing water, consider the following Caution and Warning before doing so.

CAUTION!

- **Always check the depth of the standing water before driving through it. Never drive through standing water that is deeper than the bottom of the tire rims mounted on the vehicle.**
- **Determine the condition of the road or the path that is under water and if there are any obstacles in the way before driving through the standing water.**
- **Do not exceed 5 mph (8 km/h) when driving through standing water. This will minimize wave effects.**

(Continued)

CAUTION! (Continued)

- **Driving through standing water may cause damage to your vehicle's drivetrain components. Always inspect your vehicle's fluids (i.e., engine oil, transmission, axle, etc.) for signs of contamination (i.e., fluid that is milky or foamy in appearance) after driving through standing water. Do not continue to operate the vehicle if any fluid appears contaminated, as this may result in further damage. Such damage is not covered by the New Vehicle Limited Warranty.**
- **Getting water inside your vehicle's engine can cause it to lock up and stall out, and cause serious internal damage to the engine. Such damage is not covered by the New Vehicle Limited Warranty.**

WARNING!

- **Driving through standing water limits your vehicle's traction capabilities. Do not exceed 5 mph (8 km/h) when driving through standing water.**
- **Driving through standing water limits your vehicle's braking capabilities, which increases stopping distances. Therefore, after driving through standing water, drive slowly and lightly press on the brake pedal several times to dry the brakes.**
- **Getting water inside your vehicle's engine can cause it to lock up and stall out, and leave you stranded.**
- **Failure to follow these warnings may result in injuries that are serious or fatal to you, your passengers, and others around you.**

OFF-ROAD DRIVING TIPS

Care should be taken when attempting to climb steep hills or driving diagonally across a hill or slope. If natural obstacles force you to travel diagonally up or down a hill, choose a mild angle and keep as little side tilt as possible. Keep the vehicle moving and make turns slowly and cautiously.

If you must back down a hill, back straight down using REVERSE gear. Never back down in NEUTRAL or diagonally across the hill.

When driving over sand, mud, and other soft terrain, shift to low gear and drive steadily. Apply the accelerator slowly to avoid spinning the wheels.

Do not reduce the tire pressures for this type of driving.

After Driving Off-Road

Off-road operation puts more stress on your vehicle than does most on-road driving. After going off-road, it is always a good idea to check for damage. That way you can get any problems taken care of right away and have your vehicle ready when you need it.

- Completely inspect the underbody of your vehicle. Check tires, body structure, steering, suspension, and exhaust system for damage.
- Inspect the radiator for mud and debris and clean as required.
- Check threaded fasteners for looseness, particularly on the chassis, drivetrain components, steering, and suspension. Retighten them, if required, and torque to the values specified in the Service Manual.
- Check for accumulations of plants or brush. These things could be a fire hazard. They might hide damage to fuel lines, brake hoses, axle pinion seals, and propeller shafts.
- After extended operation in mud, sand, water, or similar dirty conditions, have the radiator, fan, brake rotors, wheels, brake linings, and axle yokes inspected and cleaned as soon as possible.

WARNING!

Abrasive material in any part of the brakes may cause excessive wear or unpredictable braking. You might not have full braking power when you need it to prevent a collision. If you have been operating your vehicle in dirty conditions, get your brakes checked and cleaned as necessary.

- If you experience unusual vibration after driving in mud, slush or similar conditions, check the wheels for impacted material. Impacted material can cause a wheel imbalance and freeing the wheels of it will correct the situation.

POWER STEERING

The standard power steering system will give you good vehicle response and increased ease of maneuverability in tight spaces. The system will provide mechanical steering capability if power assist is lost.

If for some reason the power assist is interrupted, it will still be possible to steer your vehicle. Under these conditions, you will observe a substantial increase in steering effort, especially at very low vehicle speeds and during parking maneuvers.

NOTE:

- Increased noise levels at the end of the steering wheel travel are considered normal and do not indicate that there is a problem with the power steering system.
- Upon initial start-up in cold weather, the power steering pump may make noise for a short amount of time. This is due to the cold, thick fluid in the steering system. This noise should be considered normal, and it does not in any way damage the steering system.

WARNING!

Continued operation with reduced power steering assist could pose a safety risk to yourself and others. Service should be obtained as soon as possible.

CAUTION!

Prolonged operation of the steering system at the end of the steering wheel travel will increase the steering fluid temperature and it should be avoided when possible. Damage to the power steering pump may occur.

Power Steering Fluid Check

Checking the power steering fluid level at a defined service interval is not required. The fluid should only be checked if a leak is suspected, abnormal noises are apparent, and/or the system is not functioning as anticipated. Coordinate inspection efforts through an authorized dealer.

CAUTION!

Do not use chemical flushes in your power steering system as the chemicals can damage your power steering components. Such damage is not covered by the New Vehicle Limited Warranty.

WARNING!

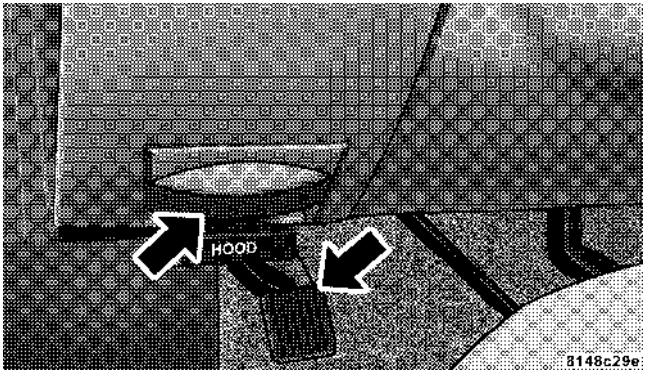
Fluid level should be checked on a level surface and with the engine off to prevent injury from moving parts and to ensure accurate fluid level reading. Do not overfill. Use only manufacturer's recommended power steering fluid.

If necessary, add fluid to restore to the proper indicated level. With a clean cloth, wipe any spilled fluid from all surfaces. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

PARKING BRAKE

Before leaving the vehicle, make sure that the parking brake is fully applied and place the shift lever in the PARK position.

The foot operated parking brake is located below the lower left corner of the instrument panel. To apply the park brake, firmly push the park brake pedal fully. To release the parking brake, pull the parking brake release handle.



Parking Brake

When the parking brake is applied with the ignition switch ON, the "Brake Warning Light" in the instrument cluster will illuminate.

NOTE: The "Brake Warning Light" only shows that the parking brake is applied. It does not show the degree of brake application.

When parking on a hill, it is important to turn the front wheels toward the curb on a downhill grade and away from the curb on an uphill grade. Apply the parking brake before placing the shift lever in PARK, otherwise the load on the transmission locking mechanism may make it difficult to move the shift lever out of PARK.

The parking brake should always be applied whenever the driver is not in the vehicle.

WARNING!

- **Never use the PARK position of the transmission as a substitute for the parking brake. Always apply the parking brake fully when parked to guard against vehicle movement and possible injury or damage.**

(Continued)

WARNING! (Continued)

- **Never leave children alone in a vehicle. Leaving unattended children in a vehicle is dangerous for a number of reasons. A child or others could be seriously or fatally injured.**
- **Do not leave the key in the ignition. A child could operate power windows, other controls, or move the vehicle.**
- **Be sure the parking brake is fully disengaged before driving; failure to do so can lead to brake failure and a collision.**
- **Always fully apply the parking brake when leaving your vehicle, or it may roll and cause damage or injury. Also be certain to leave the transmission in PARK. Failure to do so may allow the vehicle to roll and cause damage or injury.**

CAUTION!

If the "Brake Warning Light" remains on with the parking brake released, a brake system malfunction is indicated. Have the brake system serviced by an authorized dealer immediately.

BRAKE SYSTEM

In the event power assist is lost for any reason (for example, repeated brake applications with the engine off), the brakes will still function. The effort required to brake the vehicle will be significantly more than that required with the power system operating.

If either the front or rear hydraulic system loses normal capability, the remaining system will still function with some loss of braking effectiveness. This will be evident by increased pedal travel during application, greater pedal force required to slow or stop, and activation of the "Brake Warning Light" and the "ABS Warning Light" during brake use.

Four-Wheel Anti-Lock Brake System (ABS)

The Four-Wheel ABS is designed to aid the driver in maintaining vehicle control under adverse braking conditions. The system operates with a separate computer to modulate hydraulic pressure, to prevent wheel lock-up and help avoid skidding on slippery surfaces.

The system's pump motor runs during an ABS stop to provide regulated hydraulic pressure. The pump motor makes a low humming noise during operation, which is normal.

The ABS includes an amber "ABS Warning Light." When the light is illuminated, the ABS is not functioning. The system reverts to standard non-anti-lock brakes. Turning the ignition OFF and ON again may reset the ABS if the fault detected was only momentary.

WARNING!

Pumping of the Anti-Lock Brakes will diminish their effectiveness and may lead to a collision. Pumping makes the stopping distance longer. Just press firmly on your brake pedal when you need to slow down or stop.

WARNING!

- **The Anti-Lock Brake System (ABS) cannot prevent the natural laws of physics from acting on the vehicle, nor can it increase braking or steering efficiency beyond that afforded by the condition of the vehicle brakes and tires or the traction afforded.**

(Continued)

WARNING! (Continued)

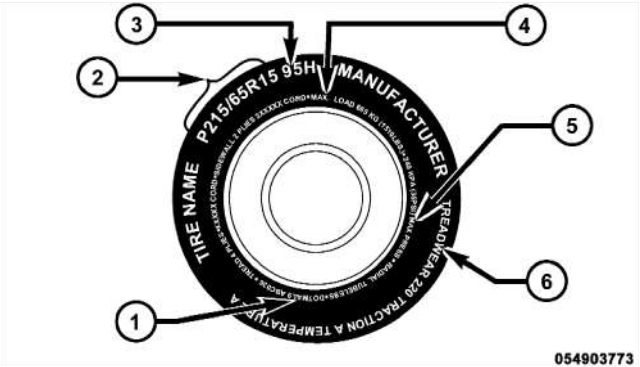
- **The ABS cannot prevent collisions, including those resulting from excessive speed in turns, following another vehicle too closely, or hydroplaning.**
- **The capabilities of an ABS-equipped vehicle must never be exploited in a reckless or dangerous manner, which could jeopardize the user's safety or the safety of others.**

When you are in a severe braking condition involving use of the ABS, you will experience some pedal drop as the vehicle comes to a stop. This is the result of the system reverting to the base brake system.

Engagement of the ABS may be accompanied by a pulsing sensation. You may also hear a clicking noise. These occurrences are normal, and indicate that the system is functioning properly.

TIRE SAFETY INFORMATION

Tire Markings



1 — U.S. DOT Safety Standards Code (TIN)	4 — Maximum Load
2 — Size Designation	5 — Maximum Pressure
3 — Service Description	6 — Treadwear, Traction and Temperature Grades

NOTE:

- P (Passenger) - Metric tire sizing is based on U.S. design standards. P-Metric tires have the letter “P” molded into the sidewall preceding the size designation. Example: P215/65R15 95H.
- European-Metric tire sizing is based on European design standards. Tires designed to this standard have the tire size molded into the sidewall beginning with the section width. The letter ″P″ is absent from this tire size designation. Example: 215/65R15 96H.
- LT (Light Truck) - Metric tire sizing is based on U.S. design standards. The size designation for LT-Metric tires is the same as for P-Metric tires except for the letters “LT” that are molded into the sidewall preceding the size designation. Example: LT235/85R16.
- Temporary spare tires are high-pressure compact spares designed for temporary emergency use only.

Tires designed to this standard have the letter "T" molded into the sidewall preceding the size designation. Example: T145/80D18 103M.

- High flotation tire sizing is based on U.S. design standards and it begins with the tire diameter molded into the sidewall. Example: 31x10.5 R15 LT.

Tire Sizing Chart

EXAMPLE:
Size Designation:
P = Passenger car tire size based on U.S. design standards **"....blank...."** = Passenger car tire based on European design standards **LT** = Light truck tire based on U.S. design standards **T** = Temporary spare tire **31** = Overall diameter in inches (in)
215 = Section width in millimeters (mm)
65 = Aspect ratio in percent (%) — Ratio of section height to section width of tire **10.5** = Section width in inches (in)
R = Construction code — "R" means radial construction —"D" means diagonal or bias construction
15 = Rim diameter in inches (in)

EXAMPLE:
Service Description:
95 = Load Index — A numerical code associated with the maximum load a tire can carry
H = Speed Symbol — A symbol indicating the range of speeds at which a tire can carry a load corresponding to its load index under certain operating conditions — The maximum speed corresponding to the speed symbol should only be achieved under specified operating conditions (i.e., tire pressure, vehicle loading, road conditions, and posted speed limits)
Load Identification:
"....blank...." = Absence of any text on the sidewall of the tire indicates a Standard Load (SL) tire
Extra Load (XL) = Extra load (or reinforced) tire
Light Load = Light load tire
C, D, E = Load range associated with the maximum load a tire can carry at a specified pressure
Maximum Load — Maximum load indicates the maximum load this tire is designed to carry
Maximum Pressure — Maximum pressure indicates the maximum permissible cold tire inflation pressure for this tire

Tire Identification Number (TIN)

The TIN may be found on one or both sides of the tire, however, the date code may only be on one side. Tires with white sidewalls will have the full TIN, including the date code, located on the white sidewall side of the tire. Look for the TIN on the outboard side of black sidewall tires as mounted on the vehicle. If the TIN is not found on the outboard side, then you will find it on the inboard side of the tire.

EXAMPLE:
DOT MA L9 ABCD 0301
DOT = Department of Transportation — This symbol certifies that the tire is in compliance with the U.S. Department of Transportation tire safety standards and is approved for highway use
MA = Code representing the tire manufacturing location (two digits)
L9 = Code representing the tire size (two digits)
ABCD = Code used by the tire manufacturer (one to four digits)
03 = Number representing the week in which the tire was manufactured (two digits) —03 means the 3rd week.
01 = Number representing the year in which the tire was manufactured (two digits) —01 means the year 2001 — Prior to July 2000, tire manufacturers were only required to have one number to represent the year in which the tire was manufactured. Example: 031 could represent the 3rd week of 1981 or 1991

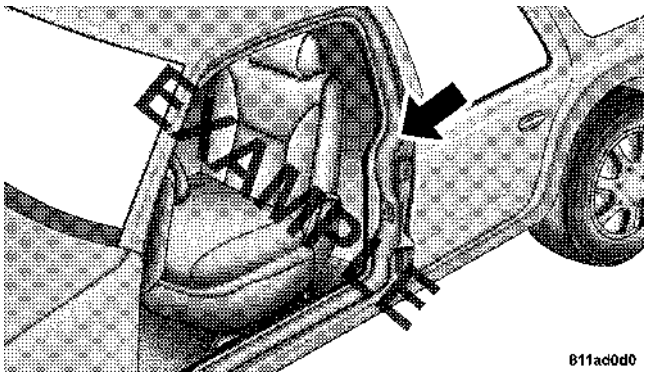
Tire Terminology and Definitions

Term	Definition
B-Pillar	The vehicle B-Pillar is a structural member of the body located between the front and rear door (of a four-door vehicle) running from the sill to the roof.
Cold Tire Pressure	Cold tire inflation pressure is defined as the tire pressure after the vehicle has not been driven for at least 3 hours, or driven less than 1 mile (1.6 km) after sitting for a three hour period. Inflation pressure is measured in units of PSI (pounds per square inch) or KPa (kilopascals).
Maximum Inflation Pressure	The maximum inflation pressure is the maximum permissible cold tire inflation pressure for this tire. The max inflation pressure is molded into the sidewall.
Recommended Inflation Pressure	Vehicle manufacturer's recommended tire inflation pressure as shown on the tire placard.
Tire Placard	A paper label permanently attached to the vehicle showing the vehicle's loading capacity, the original equipment tire size and the recommended inflation pressure.

Tire Loading and Tire Pressure

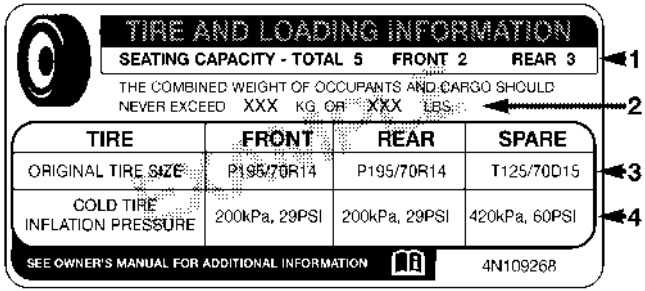
Tire Placard Location

NOTE: The proper cold tire inflation pressure is listed on the driver's side B-Pillar.



Tire Placard Location

Tire and Loading Information Placard



Tire and Loading Information Placard

This placard tells you important information about the:

1) number of people that can be carried in the vehicle
2) total weight your vehicle can carry
3) tire size designed for your vehicle
4) cold tire inflation pressures for the front, rear, and spare tires.

Loading

The vehicle maximum load on the tire must not exceed the load carrying capacity of the tire on your vehicle. You will not exceed the tire's load carrying capacity if you adhere to the loading conditions, tire size, and cold tire inflation pressures specified on the Tire and Loading Information placard and in the "Vehicle Loading" section of this manual.

NOTE: Under a maximum loaded vehicle condition, gross axle weight ratings (GAWRs) for the front and rear axles must not be exceeded. For further information on GAWRs, vehicle loading, and trailer towing, refer to "Vehicle Loading" in this section.

To determine the maximum loading conditions of your vehicle, locate the statement "The combined weight of occupants and cargo should never exceed XXX lbs or XXX kg" on the Tire and Loading Information placard. The combined weight of occupants, cargo/luggage and trailer tongue weight (if applicable) should never exceed the weight referenced here.

Steps for Determining Correct Load Limit

1. Locate the statement "The combined weight of occupants and cargo should never exceed XXX lbs or XXX kg" on your vehicle's placard.

2. Determine the combined weight of the driver and passengers that will be riding in your vehicle.

3. Subtract the combined weight of the driver and passengers from XXX lbs or XXX kg.

4. The resulting figure equals the available amount of cargo and luggage load capacity. For example, if "XXX" amount equals 1,400 lbs (635 kg) and there will be five 150 lb (68 kg) passengers in your vehicle, the amount of available cargo and luggage load capacity is 650 lbs (295 kg) (since 5 x 150 = 750, and 1400 – 750 = 650 lbs [295 kg]).

5. Determine the combined weight of luggage and cargo being loaded on the vehicle. That weight may not safely exceed the available cargo and luggage load capacity calculated in Step 4.

6. If your vehicle will be towing a trailer, load from your trailer will be transferred to your vehicle. Consult this manual to determine how this reduces the available cargo and luggage load capacity of your vehicle.

NOTE:

- The following table shows examples on how to calculate total load, cargo/luggage, and towing capacities of your vehicle with varying seating configurations and number and size of occupants. This table is for illustration purposes only and may not be accurate for the seating and load carry capacity of your vehicle.
- For the following example, the combined weight of occupants and cargo should never exceed 865 lbs (392 kg).

Occupants			Combined weight of occupants and cargo from Tire Placard	MINUS	Combined Occupant's weight	=	AVAILABLE Cargo/Luggage and Trailer Tongue Weight
TOTAL	FRONT	REAR					
EXAMPLE 1							
5	2	3			Occupant 1: 200 lbs Occupant 2: 130 lbs Occupant 3: 160 lbs Occupant 4: 100 lbs Occupant 5: 80 lbs TOTAL WEIGHT: 670 lbs		
			865 lbs	minus	670 lbs	=	195 lbs
EXAMPLE 2							
3	2	1			Occupant 1: 210 lbs Occupant 2: 180 lbs Occupant 3: 150 lbs TOTAL WEIGHT: 540 lbs		
			865 lbs	minus	540 lbs	=	325 lbs
EXAMPLE 3							
2	2	0			Occupant 1: 200 lbs Occupant 2: 200 lbs TOTAL WEIGHT: 400 lbs		
			865 lbs	minus	400 lbs	=	465 lbs

EXAMPLE

811a4d11

WARNING!

Overloading of your tires is dangerous. Overloading can cause tire failure, affect vehicle handling, and increase your stopping distance. Use tires of the recommended load capacity for your vehicle. Never overload them.

TIRES — GENERAL INFORMATION

Tire Pressure

Proper tire inflation pressure is essential to the safe and satisfactory operation of your vehicle. Three primary areas are affected by improper tire pressure:

Safety

WARNING!

- **Improperly inflated tires are dangerous and can cause collisions.**
- **Under-inflation increases tire flexing and can result in over-heating and tire failure.**
- **Over-inflation reduces a tire's ability to cushion shock. Objects on the road and chuckholes can cause damage that result in tire failure.**
- **Unequal tire pressures can cause steering problems. You could lose control of your vehicle.**
- **Over-inflated or under-inflated tires can affect vehicle handling and can fail suddenly, resulting in loss of vehicle control.**

(Continued)

WARNING! (Continued)

- **Unequal tire pressures from one side of the vehicle to the other can cause the vehicle to drift to the right or left.**
- **Always drive with each tire inflated to the recommended cold tire inflation pressure.**

Economy

Improper inflation pressures can cause uneven wear patterns to develop across the tire tread. These abnormal wear patterns will reduce tread life resulting in a need for earlier tire replacement. Under-inflation also increases tire rolling resistance and results in higher fuel consumption.

Ride Comfort and Vehicle Stability

Proper tire inflation contributes to a comfortable ride. Over-inflation produces a jarring and uncomfortable ride.

Tire Inflation Pressures

The proper cold tire inflation pressure is listed on the driver's side "B" Pillar.

The pressure should be checked and adjusted as well as inspecting for signs of tire wear or visible damage at least once a month. Use a good quality pocket-type gauge to check tire pressure. Do not make a visual judgement when determining proper inflation. Radial tires may look properly inflated even when they are under-inflated.

CAUTION!

After inspecting or adjusting the tire pressure, always reinstall the valve stem cap. This will prevent moisture and dirt from entering the valve stem, which could damage the valve stem.

Inflation pressures specified on the placard are always "cold tire inflation pressure." Cold tire inflation pressure is defined as the tire pressure after the vehicle has not been driven for at least three hours or driven less than 1 mile (1.6 km) after a three hour period. The cold tire inflation pressure must not exceed the maximum inflation pressure molded into the tire sidewall.

Check tire pressures more often if subject to a wide range of outdoor temperatures as tire pressures vary with temperature changes.

Tire pressures change by approximately 1 psi (7 kPa) per 12°F (7°C) of air temperature change. Keep this in mind when checking tire pressure inside a garage, especially in the Winter.

Example: If garage temperature = 68°F (20°C) and the outside temperature = 32°F (0°C) then the cold tire inflation pressure should be increased by 3 psi (21 kPa), which equals 1 psi (7 kPa) for every 12°F (7°C) for this outside temperature condition.

Tire pressure may increase from 2 to 6 psi (13 to 40 kPa) during operation. Do not reduce this normal pressure build up or your tire pressure will be too low.

Tire Pressures for High Speed Operation

The manufacturer advocates driving at safe speeds within posted speed limits. Where speed limits or conditions are such that the vehicle can be driven at high speeds, maintaining correct tire inflation pressure is very important. Increased tire pressure and reduced vehicle loading may be required for high-speed vehicle operation. Refer to original equipment or an authorized tire dealer for recommended safe operating speeds, loading and cold tire inflation pressures.

WARNING!

High speed driving with your vehicle under maximum load is dangerous. The added strain on your tires could cause them to fail. You could have a serious collision. Do not drive a vehicle loaded to the maximum capacity at continuous speeds above 75 mph (120 km/h).

Radial Ply Tires

WARNING!

Combining radial ply tires with other types of tires on your vehicle will cause your vehicle to handle poorly. The instability could cause a collision. Always use radial ply tires in sets of four. Never combine them with other types of tires.

Cuts and punctures in radial tires are repairable only in the tread area because of sidewall flexing. Consult your authorized tire dealer for radial tire repairs.

Tire Spinning

When stuck in mud, sand, snow, or ice conditions, do not spin your vehicle's wheels faster than 30 mph (48 km/h) or for longer than 30 seconds continuously without stopping when you are stuck.

Refer to "Freeing A Stuck Vehicle" in "What To Do In Emergencies" for further information.

WARNING!

Fast spinning tires can be dangerous. Forces generated by excessive wheel speeds may cause tire damage or failure. A tire could explode and injure someone. Do not spin your vehicle's wheels faster than 30 mph (48 km/h) or for more than 30 seconds continuously when you are stuck, and do not let anyone near a spinning wheel, no matter what the speed.

Tread Wear Indicators

Tread wear indicators are in the original equipment tires to help you in determining when your tires should be replaced.

1 — Worn Tire
2 — New Tire

These indicators are molded into the bottom of the tread grooves. They will appear as bands when the tread depth becomes 1/16 in (2 mm). When the tread is worn to the tread wear indicators, the tire should be replaced.

Life of Tire

The service life of a tire is dependent upon varying factors including, but not limited to:

- Driving style
- Tire pressure
- Distance driven

WARNING!

Tires and the spare tire should be replaced after six years, regardless of the remaining tread. Failure to follow this warning can result in sudden tire failure. You could lose control and have a collision resulting in serious injury or death.

Keep dismounted tires in a cool, dry place with as little exposure to light as possible. Protect tires from contact with oil, grease, and gasoline.

Replacement Tires

The tires on your new vehicle provide a balance of many characteristics. They should be inspected regularly for wear and correct cold tire inflation pressure. The manufacturer strongly recommends that you use tires equivalent to the originals in size, quality and performance when replacement is needed. (Refer to the paragraph on "Tread Wear Indicators"). Refer to the "Tire and Loading Information" placard for the size designation of your tire. The service description and load identification will be found on the original equipment tire. Failure to use equivalent replacement tires may adversely affect the safety, handling, and ride of your vehicle. We recommend that you contact your original equipment or an authorized tire dealer with any questions you may have on tire specifications or capability.

WARNING!

- **Do not use a tire, wheel size or rating other than that specified for your vehicle. Some combinations of unapproved tires and wheels may change suspension dimensions and performance characteristics, resulting in changes to steering, handling, and braking of your vehicle. This can cause unpredictable handling and stress to steering and suspension components. You could lose control and have a collision resulting in serious injury or death. Use only the tire and wheel sizes with load ratings approved for your vehicle.**
- **Never use a tire with a smaller load index or capacity other than what was originally equipped on your vehicle. Using a tire with a smaller load index could result in tire overloading and failure. You could lose control and have a collision.**

(Continued)

WARNING! (Continued)

- **Failure to equip your vehicle with tires having adequate speed capability can result in sudden tire failure and loss of vehicle control.**

CAUTION!

Replacing original tires with tires of a different size may result in false speedometer and odometer readings.

TIRE CHAINS

CAUTION!

- **The use of chains is permitted only on vehicles equipped with P245/70R16 tires.**
- **Use only "Class S" chains or other traction aids that meet SAE Type "S" specifications.**
- **Tire chain use is permitted only on the rear tires.**
- **Chains must be the proper size for the vehicle, as recommended by the chain manufacturer.**

CAUTION!

To avoid damage to your vehicle, tires or chains, observe the following precautions:

- **Because of limited chain clearance between tires and other suspension components, it is important that only chains in good condition are used. Broken chains can cause serious vehicle damage. Stop the vehicle immediately if noise occurs that could suggest chain breakage. Remove the damaged parts of the chain before further use.**
- **Install chains as tightly as possible and then retighten after driving about 1/2 mile (0.8 km).**
- **Do not exceed 45 mph (72 km/h).**

(Continued)

CAUTION! (Continued)

- **Drive cautiously and avoid severe turns and large bumps, especially with a loaded vehicle.**
- **Do not install tire chains on front wheels of vehicles.**
- **Do not drive for a prolonged period on dry pavement.**
- **Observe the tire chain manufacturer's instructions on method of installation, operating speed, and conditions for usage. Always use the lower suggested operating speed of the chain manufacturer if different than the speed recommended by the manufacturer.**

These cautions apply to all chain traction devices, including link and cable (radial) chains.

Tire chain use is permitted only on the rear tires of your vehicle.

NOTE: The use of class "S" chains is permitted on your vehicle with P245/70R16 tires.

CAUTION!

- **Do not use tire chains on vehicles equipped with tires other than P245/70R16. There may not be adequate clearance for the chains and you are risking structural or body damage to your vehicle.**
- **Do not use tire chains on the front wheels of your vehicle. There may not be adequate clearance for the chains and you are risking structural or body damage to your vehicle.**

SNOW TIRES

Some areas of the country require the use of snow tires during the winter. All season tires satisfy this requirement and can be identified by the M+S designation on the tire sidewall.

If you need snow tires, select tires equivalent in size and type to the original equipment tires. Use snow tires only in sets of four; failure to do so may adversely affect the safety and handling of your vehicle.

Snow tires generally have lower speed ratings than what was originally equipped with your vehicle and should not be operated at sustained speeds over 75 mph (120 km/h). For speeds above 75 mph (120 km/h) refer to original equipment or an authorized tire dealer for recommended safe operating speeds, loading and cold tire inflation pressures.

While studded tires improve performance on ice, skid and traction capability on wet or dry surfaces may be poorer than that of non-studded tires. Some states prohibit studded tires; therefore, local laws should be checked before using these tire types.

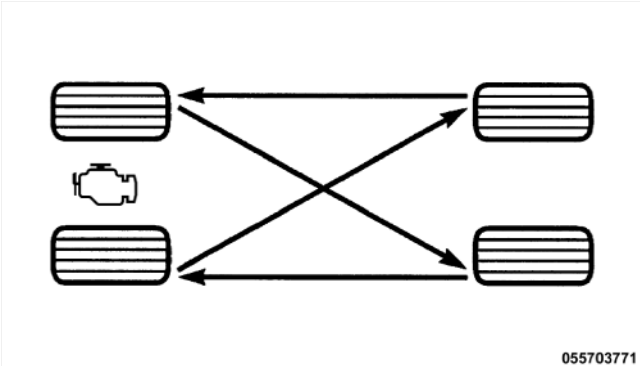
TIRE ROTATION RECOMMENDATIONS

Tires on the front and rear axles of vehicles operate at different loads and perform different steering, driving, and braking functions. For these reasons, they wear at unequal rates and tend to develop irregular wear patterns.

These effects can be reduced by timely rotation of tires. The benefits of rotation are especially worthwhile with aggressive tread designs such as those on all season type tires. Rotation will increase tread life, help to maintain mud, snow and wet traction levels, and contribute to a smooth, quiet ride.

Refer to the “Maintenance Schedule” for the proper maintenance intervals. More frequent rotation is permissible if desired. The reasons for any rapid or unusual wear should be corrected prior to rotation being performed.

The suggested rotation method is the "forward cross" shown in the following diagram. This rotation pattern does not apply to some directional tires that must not be reversed.



Tire Rotation

TIRE PRESSURE MONITOR SYSTEM (TPMS)

The Tire Pressure Monitoring System (TPMS) will warn the driver of a low tire pressure based on the vehicle recommended cold placard pressure (the placard is located on the driver's side B-pillar).

The tire pressure will vary with temperature by about 1 psi (6.9 kPa) for every 12°F (6.5°C). This means that when the outside temperature decreases, the tire pressure will decrease. Tire pressure should always be set based on cold inflation tire pressure. This is defined as the tire pressure after a vehicle has not been driven for more than three hours - and in outside ambient temperature. **Refer to "Tires – General Information" in "Starting and Operating" for information on how to properly inflate the vehicle's tires**. The tire pressure will also increase as the vehicle is driven - this is normal and there should be no adjustment for this increased pressure.

TPMS will warn the driver of a low tire pressure if the tire pressure falls below the low pressure warning threshold for any reason, including low temperature effects, or natural pressure loss through the tire.

The TPM System will continue to warn the driver of low tire pressure as long as the condition exists, and will not turn off until the tire pressure is at or above recommended cold placard pressure. Once the low tire pressure warning has been illuminated, the tire pressure must be increased to the recommended cold placard pressure in order for the "TPMS Warning Lamp" to be turned off. The system will automatically update and the "TPMS Warning Lamp" will extinguish once the updated tire pressures have been received. The vehicle may need to be driven for up to 20 minutes above 15 mph (25 km/h) to receive this information.

For example, your vehicle has a recommended cold (parked for more than three hours) placard pressure of 33 psi (227 kPa). If the ambient temperature is 68°F (20°C) and the measured tire pressure is 28 psi (193 kPa), a temperature drop to 20°F (-7°C) will decrease the tire pressure to approximately 24 psi (165 kPa). This tire pressure is sufficiently low enough to turn on the "TPMS Lamp." Driving the vehicle may cause the tire pressure to rise to approximately 28 psi (193 kPa), but the "TPMS Lamp" will still be ON. In this situation, the "TPMS Lamp" will turn off only after the tires have been inflated to the vehicle's recommended cold placard pressure value.

CAUTION!

- **The TPMS has been optimized for the original equipment tires and wheels. TPMS pressures have been established for the tire size equipped on your vehicle. Undesirable system operation or sensor damage may result when using replacement equipment that is not of the same size, type, and/or style. Aftermarket wheels can cause sensor damage. Do not use aftermarket tire sealants or balance beads if your vehicle is equipped with a TPMS, as damage to the sensors may result.**
- **After inspecting or adjusting the tire pressure always reinstall the valve stem cap. This will prevent moisture and dirt from entering the valve stem, which could damage the tire pressure monitoring sensor.**

NOTE:

- The TPMS is not intended to replace normal tire care and maintenance, or to provide warning of a tire failure or condition.
- The TPMS should not be used as a tire pressure gauge while adjusting your tire pressure.
- Driving on a significantly under-inflated tire causes the tire to overheat and can lead to tire failure. Under-inflation also reduces fuel efficiency and tire tread life, and may affect the vehicle's handling and stopping ability.
- The TPMS is not a substitute for proper tire maintenance, and it is the driver's responsibility to maintain correct tire pressure using an accurate tire gauge, even if under-inflation has not reached the level to trigger illumination of the "Tire Pressure Monitoring Telltale Light."

- Seasonal temperature changes will affect tire pressure, and the TPMS will monitor the actual tire pressure in the tire.

Base System

The Tire Pressure Monitor System (TPMS) uses wireless technology with wheel rim mounted electronic sensors to monitor tire pressure levels. Sensors, mounted to each wheel as part of the valve stem, transmit tire pressure readings to the receiver module.

NOTE: It is particularly important for you to check the tire pressure in all of your tires regularly and to maintain the proper pressure.

The TPMS consists of the following components:

- Receiver module
- Four tire pressure monitoring sensors
- Tire Pressure Monitoring Telltale Light

The "Tire Pressure Monitoring Telltale Light" will illuminate in the instrument cluster, and an audible chime will be activated when one or more of the four active road tire pressures are low. Should this occur, you should stop as soon as possible, check the inflation pressure of each tire on your vehicle, and inflate each tire to the vehicle's recommended cold placard pressure value. The system will automatically update and the "Tire Pressure Monitoring Telltale Light" will extinguish once the updated tire pressures have been received. The vehicle may need to be driven for up to 20 minutes above 15 mph (25 km/h) to receive this information.

The "Tire Pressure Monitoring Telltale Light" will flash on and off for 75 seconds, and remain on solid when a system fault is detected. The system fault will also sound a chime. If the ignition key is cycled, this sequence will repeat, providing the system fault still exists. The "Tire Pressure Monitoring Telltale Light" will turn off when

the fault condition no longer exists. A system fault can occur by any of the following scenarios: 1) Jamming due to electronic devices or driving next to facilities emitting the same radio frequencies as the TPM sensors; 2) Installing some form of aftermarket window tinting that affects radio wave signals; 3) Lots of snow or ice around the wheels or wheel housings; 4) Using tire chains on the vehicle; 5) Using wheels/tires not equipped with TPM sensors.

NOTE: Your vehicle is equipped with a non-matching full size spare wheel and tire assembly.

1. This spare tire does not have a tire pressure monitoring sensor. Therefore, the TPMS will not monitor the tire pressure in the spare tire.

2. If you install the full size spare tire in place of a road tire that has a pressure below the low-pressure warning limit, upon the next ignition key cycle a chime will sound and the "TPM Telltale Light" will still turn ON due to the low tire.

3. However, after driving the vehicle for up to 20 minutes above 15 mph (25 km/h), the "TPM Telltale Light" will flash on and off for 75 seconds and then remain on solid.

4. For each subsequent ignition key cycle, a chime will sound and the "TPM Telltale Light" will flash on and off for 75 seconds and then remain on solid.

5. Once you repair or replace the original road tire, and reinstall it on the vehicle in place of the full size spare tire, the TPMS will update automatically and the "TPM Telltale Light" will turn OFF, as long as no tire pressure is below the low-pressure warning limit in any of the four active road tires. The vehicle may need to be driven for up to 20 minutes above 15 mph (25 km/h) in order for the TPMS to receive this information.

General Information

This device complies with part 15 of the FCC rules and RSS 210 of Industry Canada. Operation is subject to the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.

The tire pressure sensors are covered under one of the following licenses:

United States KR5S120123
Canada 2671-S120123

FUEL REQUIREMENTS

These engines are designed to meet all emissions regulations, and provide excellent fuel economy and performance when using high quality unleaded “regular” gasoline having an octane rating of 87. The use of premium gasoline is not recommended, as it will not provide any benefit over regular gasoline in these engines.

Light spark knock at low engine speeds is not harmful to your engine. However, continued heavy spark knock at high speeds can cause damage and immediate service is required. Poor quality gasoline can cause problems such as hard starting, stalling, and hesitations. If you experience these symptoms, try another brand of gasoline before considering service for the vehicle.

Over 40 auto manufacturers worldwide, have issued and endorsed consistent gasoline specifications (the Worldwide Fuel Charter, WWFC), which define fuel properties necessary to deliver enhanced emissions, performance, and durability for your vehicle. The manufacturer recommends the use of gasoline that meets the WWFC specifications, if they are available.

Reformulated Gasoline

Many areas of the country require the use of cleaner burning gasoline, referred to as "Reformulated Gasoline." Reformulated gasolines contain oxygenates, and are specifically blended to reduce vehicle emissions and improve air quality.

The manufacturer supports the use of reformulated gasolines. Properly-blended reformulated gasolines will provide excellent performance and durability of engine and fuel system components.

Gasoline/Oxygenate Blends

Some fuel suppliers blend unleaded gasoline with oxygenates such as Ethanol. Fuels blended with oxygenates may be used in your vehicle.

CAUTION!

DO NOT use gasoline containing Methanol or gasoline containing more than 10% Ethanol. Use of these blends may result in starting and driveability problems and may damage critical fuel system components.

Problems that result from using methanol/gasoline or E85 Ethanol blends are not the responsibility of the manufacturer.

E-85 Usage In Non-Flex Fuel Vehicles

Non-FFV vehicles are compatible with gasoline containing 10% ethanol (E10). Gasoline with higher ethanol content may void the vehicle's warranty.

If a Non-FFV vehicle is inadvertently fueled with E-85 fuel, the engine will have some or all of these symptoms:

- operate in a lean mode
- OBD II "Malfunction Indicator Light" on
- poor engine performance
- poor cold start and cold drivability
- increased risk for fuel system component corrosion

To fix a Non-FFV vehicle inadvertently fueled once with E-85 perform the following:

- drain the fuel tank (see your authorized dealer)
- change the engine oil and oil filter
- disconnect and reconnect the battery to reset the engine controller memory

More extensive repairs will be required for prolonged exposure to E-85 fuel.

MMT In Gasoline

MMT is a manganese containing metallic additive that is blended into some gasoline to increase octane. Gasoline blended with MMT provides no performance advantage beyond gasoline of the same octane number without MMT. Gasoline blended with MMT reduces spark plug life and reduces emission system performance in some vehicles. The manufacturer recommends that gasoline without MMT be used in your vehicle. The MMT content of gasoline may not be indicated on the gasoline pump, therefore, you should ask your gasoline retailer whether gasoline contains MMT. It is even more important to look for gasolines without MMT in Canada, because MMT can

be used at levels higher than those allowed in the United States. MMT is prohibited in Federal and California reformulated gasoline.

Materials Added To Fuel

All gasolines sold in the United States are required to contain effective detergent additives. Use of additional detergents or other additives is not needed under normal conditions and would result in unnecessary cost. Therefore, you should not have to add anything to the fuel.

Fuel System Cautions

CAUTION!

Follow these guidelines to maintain your vehicle's performance:

(Continued)

CAUTION! (Continued)

- **The use of leaded gas is prohibited by Federal law. Using leaded gasoline can impair engine performance, damage the emission control system.**
- **An out-of-tune engine, or certain fuel or ignition malfunctions, can cause the catalytic converter to overheat. If you notice a pungent burning odor or some light smoke, your engine may be out of tune or malfunctioning and may require immediate service. Contact your authorized dealer for service assistance.**
- **When pulling a heavy load or driving a fully loaded vehicle when the humidity is low and the temperature is high, use a premium unleaded fuel to help prevent spark knock. If spark knock persists, lighten the load, or engine piston damage may result.**

(Continued)

CAUTION! (Continued)

- **The use of fuel additives which are now being sold as octane enhancers is not recommended. Many of these products contain high concentrations of methanol. Fuel system damage or vehicle performance problems resulting from the use of such fuels or additives is not the responsibility of the manufacturer.**

NOTE: Intentional tampering with emissions control systems can result in civil penalties being assessed against you.

Carbon Monoxide Warnings

WARNING!

Carbon monoxide (CO) in exhaust gases is deadly. Follow the precautions below to prevent carbon monoxide poisoning:

- **Do not inhale exhaust gases. They contain carbon monoxide, a colorless and odorless gas, which can kill. Never run the engine in a closed area, such as a garage, and never sit in a parked vehicle with the engine running for an extended period. If the vehicle is stopped in an open area with the engine running for more than a short period, adjust the ventilation system to force fresh, outside air into the vehicle.**

(Continued)

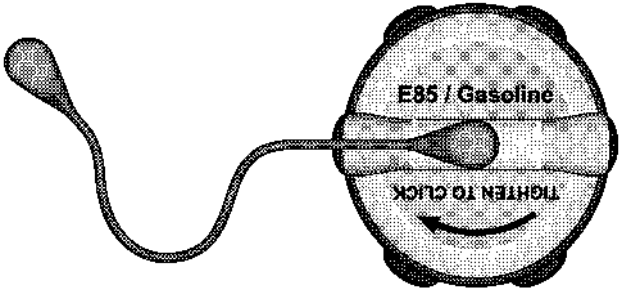
WARNING! (Continued)

- **Guard against carbon monoxide with proper maintenance. Have the exhaust system inspected every time the vehicle is raised. Have any abnormal conditions repaired promptly. Until repaired, drive with all side windows fully open.**

FLEXIBLE FUEL (4.7L ENGINE ONLY) — IF EQUIPPED

E85 General Information

The information in this section is for Flexible Fuel vehicles only. These vehicles can be identified by a unique fuel filler door label that states **Ethanol (E85) or Unleaded Gasoline Only.** This section only covers those subjects that are unique to these vehicles. Please refer to the other sections of this manual for information on features that are common between Flexible Fuel and gasoline-only powered vehicles.



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E85 Fuel Cap

CAUTION!

Only vehicles with the E85 fuel filler door label can operate on E85.

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E85 Badge

Ethanol Fuel (E85)

E85 is a mixture of approximately 85% fuel ethanol and 15% unleaded gasoline.

WARNING!

Ethanol vapors are extremely flammable and could cause serious personal injury. Never have any smoking materials lit in or near the vehicle when removing the fuel filler tube cap (gas cap) or filling the tank. Do not use E85 as a cleaning agent and never use it near an open flame.

Fuel Requirements

Your vehicle will operate on both unleaded gasoline with an octane rating of 87, or E-85 fuel, or any mixture of these two. For best results, a refueling pattern that alternates between E-85 and unleaded gasoline should be avoided.

When you do switch fuel types it is recommended that:

- you do not switch when the fuel gauge indicates less than 1/4 full
- you do not add less than 5 gallons (19 Liters) when refueling
- you operate the vehicle immediately after refueling for a period of at least 5 minutes

Observing these precautions will avoid possible hard starting and/or significant deterioration in driveability during warm up.

NOTE:

- When the ambient temperature is above 90° F (32° C), you may experience hard starting and rough idle following start up even if the above recommendations are followed.
- Some additives used in regular gasoline are not fully compatible with E85 and may form deposits in your engine. To eliminate driveability issues that may be caused by these deposits, a supplemental gasoline additive, such as MOPAR® Injector Cleanup or Techron may be used.

Selection Of Engine Oil For Flexible Fuel Vehicles (E85) and Gasoline Vehicles

FFV vehicles operated on E85 require specially formulated engine oils. These special requirements are included in MOPAR® engine oils, and in equivalent oils meeting Chrysler Specification MS-6395. The manufacturer requires engine oils that are API Certified and meet the requirements of Material Standard MS-6395. MS-6395 contains additional requirements, developed during extensive fleet testing, to provide additional protection to Chrysler Group LLC engines. Use MOPAR® or an equivalent oil meeting the specification MS-6395.

Starting

The characteristics of E85 fuel make it unsuitable for use when ambient temperatures fall below 0°F (-18°C). In the range of 0°F (-18°C) to 32°F (0°C), you may experience an increase in the time it takes for your engine to start, and a deterioration in driveability (sags and/or hesitations) until the engine is fully warmed up.

NOTE: Use of the engine block heater (if equipped) is beneficial for E85 startability when the ambient temperature is less than 32°F (0°C).

Cruising Range

Because E85 fuel contains less energy per gallon/liter than gasoline, you will experience an increase in fuel consumption. You can expect your miles per gallon (mpg)/miles per liter and your driving range to decrease by about 30%, compared to gasoline operation.

Replacement Parts

Many components in your Flexible Fuel Vehicle (FFV) are designed to be compatible with ethanol. Always be sure that your vehicle is serviced with correct ethanol compatible parts.

CAUTION!

Replacing fuel system components with non-ethanol compatible components can damage your vehicle.

Maintenance

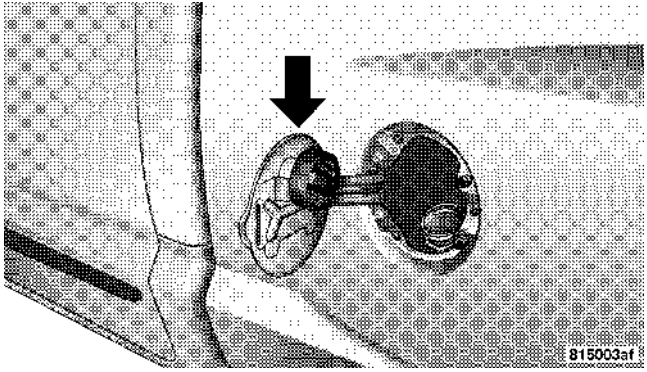
CAUTION!

Do not use ethanol mixture greater than 85% in your vehicle. It will cause difficulty in cold starting and may affect driveability.

ADDING FUEL

Fuel Filler Cap (Gas Cap)

The gas cap is located behind the fuel filler door. When fueling, the cap may be placed on the inside of the filler door.



Gas Cap Holder

If the gas cap is lost or damaged, be sure the replacement cap is for use with this vehicle.

CAUTION!

- **Damage to the fuel system or emissions control system could result from using an improper fuel tank filler tube cap (gas cap). A poorly fitting cap could let impurities into the fuel system.**
- **To avoid fuel spillage and overfilling, do not "top off" the fuel tank after filling.**

WARNING!

- **Never allow any lit smoking materials near the vehicle while removing the cap or filling the tank.**

(Continued)

WARNING! (Continued)

- **Never add fuel to the vehicle when the engine is running. This is in violation of most state and federal regulations and may cause the "Malfunction Indicator Light (MIL)" to turn on.**
- **A fire may result if gasoline is pumped into a portable container that is inside of a vehicle or on a truck bed. You could be burned. Always place gas containers on the ground while filling.**

NOTE:

- If fuel is poured from a portable container, the container should have a flexible nozzle long enough to extend into the fuel filler tube.
- When the fuel nozzle "clicks" or shuts off, the fuel tank is full.
- Tighten the gas cap until you hear a "clicking" sound. This is an indication that the gas cap is properly tightened. Make sure that the gas cap is tightened each time the vehicle is refueled.

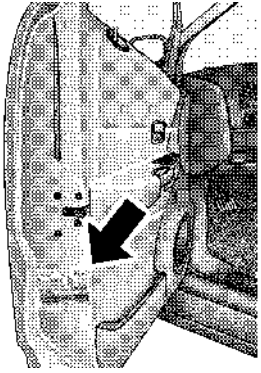
Loose Fuel Filler Cap Message

After fuel has been added, the vehicle diagnostic system can determine if the fuel filler cap is possibly loose, improperly installed, or damaged. If the system detects a malfunction, the "gASCAP" message will display in the odometer display. Tighten the gas cap until a "clicking" sound is heard. This is an indication that the gas cap is properly tightened. Press the odometer reset button to turn the message off. If the problem persists, the message will appear the next time the vehicle is started. This might indicate a damaged cap. If the problem is detected twice in a row, the system will turn on the MIL. Resolving the problem will turn the MIL off.

VEHICLE LOADING

Certification Label

As required by National Highway Traffic Safety Administration Regulations, your vehicle has a certification label affixed to the driver's side door.



Certification Label

This label contains the month and year of manufacture, Gross Vehicle Weight Rating (GVWR), Gross Axle Weight Rating (GAWR) front and rear, and Vehicle Identification Number (VIN). A Month-Day-Hour (MDH) number is included on this label and shows the month, day, and hour of manufacture. The bar code that appears on the bottom of the label is your Vehicle Identification Number (VIN).

Gross Vehicle Weight Rating (GVWR)

The GVWR is the total permissible weight of your vehicle including driver, passengers, vehicle, options, and cargo. The label also specifies maximum capacities of front and rear axle systems. Total load must be limited so that GVWR is not exceeded.

Payload

The payload of a vehicle is defined as the allowable load weight a vehicle can carry including the weight of the driver, all passengers, options, and cargo.

Gross Axle Weight Rating (GAWR)
The GAWR is the maximum permissible load on the front and rear axles. The load must be distributed in the cargo area so that the GAWR of each axle is not exceeded.

Each axle GAWR is determined by the component in the system with the lowest load carrying capacity (axle, springs, tires, or wheels).

Heavier axles or suspension components sometimes specified by purchasers for increased durability do not necessarily increase the vehicle's GVWR.

Tire Size
This is the minimum allowable tire size for your vehicle. Replacement tires must be equal to the load capacity of this tire size.

Rim Size
This is the rim size that is appropriate for the tire size listed.

Inflation Pressure (Cold)
This is the cold tire inflation pressure for your vehicle for all loading conditions up to full GAWR.

Curb Weight
The curb weight of a vehicle is defined as the total weight of the vehicle with all fluids, including vehicle fuel, at full capacity conditions, and with no occupants or cargo loaded into the vehicle. The front and rear curb weight values are determined by weighing your vehicle on a commercial scale before any occupants or cargo are added.

Loading
The actual total weight and the weight of the front and rear of your vehicle at the ground can best be determined by weighing it when it is loaded and ready for operation.

The entire vehicle should first be weighed on a commercial scale to ensure that the GVWR has not been exceeded. The weight on the front and rear of the vehicle

should then be determined separately to be sure that the load is properly distributed over front and rear axle. Weighing the vehicle may show that the GAWR of either the front or rear axles has been exceeded but the total load is within the specified GVWR. If so, weight must be shifted from front to rear or rear to front as appropriate until the specified weight limitations are met.

Store heavier items down low and be sure that the weight is distributed equally. Stow all loose items securely before driving.

Improper weight distribution can have an adverse effect on the way your vehicle steers and handles and the way the brakes operate.

WARNING!

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

TRAILER TOWING

In this section you will find safety tips and information on limits to the type of towing you can reasonably do with your vehicle. Before towing a trailer carefully review this information to tow your load as efficiently and safely as possible.

To maintain warranty coverage, follow the requirements and recommendations in this manual concerning vehicles used for trailer towing.

Common Towing Definitions

The following trailer towing related definitions will assist you in understanding the following information:

Gross Vehicle Weight Rating (GVWR)

The GVWR is the total allowable weight of your vehicle. This includes driver, passengers, cargo and tongue weight. The total load must be limited so that you do not exceed the GVWR. Refer to "Vehicle Loading/Vehicle Certification Label" in "Starting and Operating" for further information.

Gross Trailer Weight (GTW)

The GTW is the weight of the trailer plus the weight of all cargo, consumables and equipment (permanent or temporary) loaded in or on the trailer in its "loaded and ready for operation" condition.

The recommended way to measure GTW is to put your fully loaded trailer on a vehicle scale. The entire weight of the trailer must be supported by the scale.

Gross Combination Weight Rating (GCWR)

The GCWR is the total permissible weight of your vehicle and trailer when weighed in combination.

NOTE: The GCWR rating includes a 150 lbs (68 kg) allowance for the presence of a driver.

Gross Axle Weight Rating (GAWR)

The GAWR is the maximum capacity of the front and rear axles. Distribute the load over the front and rear axles evenly. Make sure that you do not exceed either front or rear GAWR. Refer to "Vehicle Loading/Vehicle Certification Label" in "Starting and Operating" for further information.

WARNING!

It is important that you do not exceed the maximum front or rear GAWR. A dangerous driving condition can result if either rating is exceeded. You could lose control of the vehicle and have a collision.

Trailer Tongue Weight (TW)

The tongue weight is the downward force exerted on the hitch ball by the trailer is the tongue weight. In most cases it should not be less than 10% or more than 15% of the trailer load. You must consider this as part of the load on your vehicle.

Frontal Area

The frontal area is the maximum height multiplied by the maximum width of the front of a trailer.

Weight-Carrying Hitch

A weight-carrying hitch supports the trailer tongue weight, just as if it were luggage located at a hitch ball or some other connecting point of the vehicle. These kind of hitches are the most popular on the market today and they are commonly used to tow small- and medium-sized trailers.

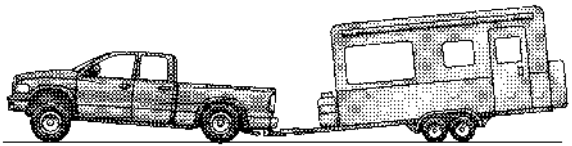
Weight-Distributing Hitch

A weight-distributing hitch works by applying leverage through spring (load) bars. They are typically used for heavier loads, to distribute trailer tongue weight to the tow vehicle's front axle and the trailer axle(s). When used in accordance with the manufacturers' directions, it provides for a more level ride, offering more consistent steering and brake control thereby enhancing towing safety. The addition of a friction/hydraulic sway control also dampens sway caused by traffic and crosswinds and contributes positively to tow vehicle and trailer stability. Trailer sway control and a weight distributing (load

equalizing) hitch are recommended for heavier tongue weights and may be required depending on vehicle and trailer configuration/loading to comply with Gross Axle Weight Rating (GAWR) requirements.

WARNING!

- **An improperly adjusted weight-distributing hitch may reduce handling, stability, and braking performance, and could result in a collision.**
- **Weight-Distributing Systems may not be compatible with surge brake couplers. Consult with your hitch and trailer manufacturer or a reputable recreational vehicle dealer for additional information.**



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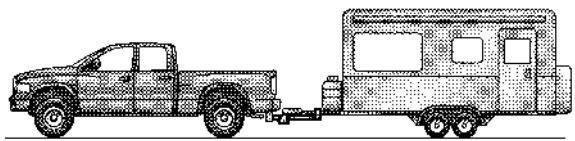
EXAMPLE — Without Weight-Distributing Hitch (Incorrect)



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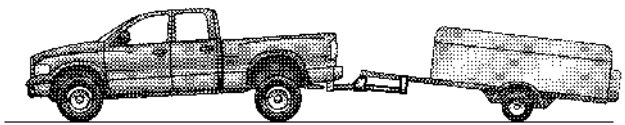
EXAMPLE — With Weight-Distributing Hitch (Correct)



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EXAMPLE — Improper Adjustment of Weight-Distributing Hitch (Incorrect)

Trailer Hitch Classification

The rear bumper is intended to tow trailers up to 2,000 lbs (907 kg) without added equipment or alterations to the standard equipment. Your vehicle may be factory equipped for safe towing of trailers weighing over 2,000 lbs (907 kg) with the optional Trailer Tow Prep Package. See your authorized dealer for package content.

The following chart provides the industry standard for the maximum trailer weight a given trailer hitch class can tow and should be used to assist you in selecting the correct trailer hitch for your intended towing condition. Refer to "Trailer Towing Weights (Maximum Trailer Weight Ratings)" for the website address that contains the necessary information for your specific drivetrain.

Trailer Hitch Classification Definitions	
Class	**Max. Trailer Hitch Industry Standards**
Class I - Light Duty	2,000 lbs (907 kg)
Class II - Medium Duty	3,500 lbs (1587 kg)
Class III - Heavy Duty	5,000 lbs (2268 kg)
Class IV - Extra Heavy Duty	10,000 lbs (4540 kg)
Fifth Wheel/ Gooseneck	Greater than 10,000 lbs (4540 kg)
Refer to the "Trailer Towing Weights (Maximum Trailer Weight Ratings)" for the Maximum Gross Trailer Weight (GTW) towable for your given drivetrain.	

All trailer hitches should be professionally installed on your vehicle.

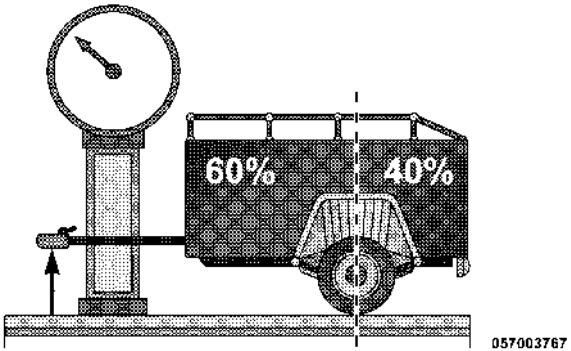
Trailer Towing Weights (Maximum Trailer Weight Ratings)

NOTE: For additional trailer towing information including maximum trailer and tongue weight rating for your vehicle, refer to the following website addresses:

- **http:// www.dodge.com/bodybuilder**
- **http:// www.dodge.ca** (Canada)

Trailer and Tongue Weight

Always load a trailer with 60% to 65% of the weight in the front of the trailer. This places 10% to 15% of the Gross Trailer Weight (GTW) on the tow hitch of your vehicle. Loads balanced over the wheels or heavier in the rear can cause the trailer to sway **severely** side to side which will cause loss of control of vehicle and trailer. Failure to load trailers heavier in front is the cause of many trailer collisions.



Consider the following items when computing the weight on the rear axle of the vehicle:

- The tongue weight of the trailer.
- The weight of any other type of cargo or equipment put in or on your vehicle.
- The weight of the driver and all passengers.

NOTE: Remember that everything put into or on the trailer adds to the load on your vehicle. Also, additional factory-installed options, or dealer-installed options, must be considered as part of the total load on your vehicle. Refer to "Tire Safety Information/Tire and Loading Information Placard" in "Starting and Operating" for further information.

Towing Requirements

To promote proper break-in of your new vehicle drivetrain components the following guidelines are recommended:

CAUTION!

- **Do not tow a trailer at all during the first 500 miles (805 km) the new vehicle is driven. The engine, axle or other parts could be damaged.**
- **Then, during the first 500 miles (805 km) that a trailer is towed, do not drive over 50 mph (80 km/h) and do not make starts at full throttle. This helps the engine and other parts of the vehicle wear in at the heavier loads.**

Perform the maintenance listed in the Maintenance Schedule. Refer to "Maintenance Schedule" for the proper maintenance intervals. When towing a trailer, never exceed the GAWR or GCWR ratings.

WARNING!

Improper towing can lead to a collision. Follow these guidelines to make your trailer towing as safe as possible:

- **Make certain that the load is secured in the trailer and will not shift during travel. When trailering cargo that is not fully secured, dynamic load shifts can occur that may be difficult for the driver to control. You could lose control of your vehicle and have a collision.**
- **When hauling cargo or towing a trailer, do not overload your vehicle or trailer. Overloading can cause a loss of control, poor performance or damage to brakes, axle, engine, transmission, steering, suspension, chassis structure or tires.**

(Continued)

WARNING! (Continued)

- **Safety chains must always be used between your vehicle and trailer. Always connect the chains to the frame or hook retainers of the vehicle hitch. Cross the chains under the trailer tongue and allow enough slack for turning corners.**
- **Vehicles with trailers should not be parked on a grade. When parking, apply the parking brake on the tow vehicle. Put the tow vehicle automatic transmission in PARK. For four-wheel drive vehicles, make sure the transfer case is not in NEUTRAL. Always, block or "chock" the trailer wheels.**
- **GCWR must not be exceeded.**
- **Total weight must be distributed between the tow vehicle and the trailer so that the following four ratings are not exceeded:**
  1. GVWR

(Continued)

WARNING! (Continued)

2. GTW
3. GAWR
4. Tongue weight rating for the trailer hitch utilized (This requirement may limit the ability to always achieve the 10% to 15% range of tongue weight as a percentage of total trailer weight.)

Towing Requirements – Tires

– Do not attempt to tow a trailer while using a compact spare tire.

– Proper tire inflation pressures are essential to the safe and satisfactory operation of your vehicle. For proper tire inflation procedures, refer to "Tires – General Information" in "Starting and Operating" for further information.

– Check the trailer tires for proper tire inflation pressures before trailer usage.

– Check for signs of tire wear or visible tire damage before towing a trailer. For the proper inspection procedure, refer to "Tires – General Information" in "Starting and Operating" for further information.

– When replacing tires, refer to "Tires – General Information" in "Starting and Operating" for further information. Replacing tires with a higher load carrying capacity will not increase the vehicle's GVWR and GAWR limits.

Towing Requirements – Trailer Brakes

– Do **not** interconnect the hydraulic brake system or vacuum system of your vehicle with that of the trailer. This could cause inadequate braking and possible personal injury.

– An electronically actuated trailer brake controller is required when towing a trailer with electronically actuated brakes. When towing a trailer equipped with a hydraulic surge actuated brake system, an electronic brake controller is not required.

– Trailer brakes are recommended for trailers over 1,000 lbs (454 kg) and required for trailers in excess of 2,000 lbs (907 kg).

CAUTION!

If the trailer weighs more than 1,000 lbs (454 kg) loaded, it should have its own brakes and they should be of adequate capacity. Failure to do this could lead to accelerated brake lining wear, higher brake pedal effort, and longer stopping distances.

WARNING!

- **Do not connect trailer brakes to your vehicle's hydraulic brake lines. It can overload your brake system and cause it to fail. You might not have brakes when you need them and could have a collision.**
- **Towing any trailer will increase your stopping distance. When towing you should allow for additional space between your vehicle and the vehicle in front of you. Failure to do so could result in a collision.**

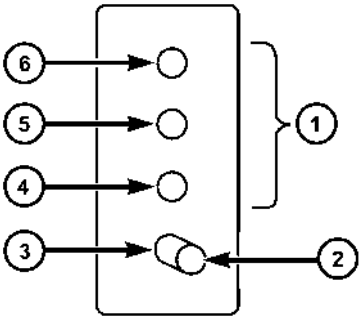
Towing Requirements – Trailer Lights and Wiring

Whenever you pull a trailer, regardless of the trailer size, stop lights and turn signals on the trailer are required for motoring safety.

The Trailer Tow Package may include a four and seven-pin wiring harness. Use a factory approved trailer harness and connector.

NOTE: Do not cut or splice wiring into the vehicle's wiring harness.

The electrical connections are all complete to the vehicle but you must mate the harness to a trailer connector. Refer to the following illustrations:



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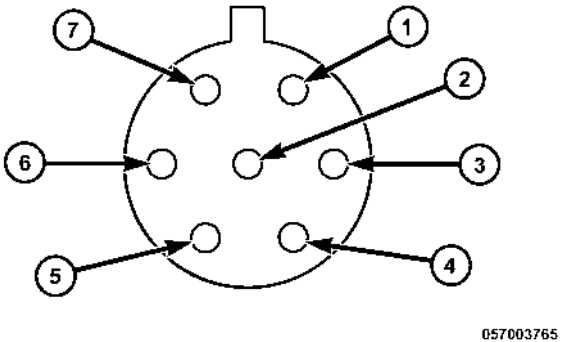
Four-Pin Connector

1 — Female Pins	4 — Park
2 — Male Pin	5 — Left Stop/Turn
3 — Ground	6 — Right Stop/Turn



Seven-Pin Connector

1 — Battery	5 — Ground
2 — Backup Lamps	6 — Left Stop/Turn
3 — Right Stop/Turn	7 — Running Lamps
4 — Electric Brakes	

Towing Tips

Before setting out on a trip, practice turning, stopping and backing the trailer in an area away from heavy traffic.

Automatic Transmission

The "DRIVE" range can be selected when towing. However, if frequent shifting occurs while in this range, the TOW/HAUL feature should be selected.

NOTE: Using the TOW/HAUL feature while operating the vehicle under heavy operating conditions will improve performance and extend transmission life by reducing excessive shifting and heat build up. This action will also provide better engine braking.

The automatic transmission fluid and filter should be changed if you REGULARLY tow a trailer for more than 45 minutes of continuous operation. Refer to "Maintenance Schedule" for the proper maintenance intervals.

NOTE: Check the automatic transmission fluid level before towing.

Tow/Haul – If Equipped

To reduce potential for automatic transmission overheating, turn the TOW/HAUL feature ON when driving in hilly areas or shift the transmission to Drive position 2 on more severe grades.

Electronic Speed Control – If Equipped

– Do not use in hilly terrain or with heavy loads.

– When using the speed control, if you experience speed drops greater than 10 mph (16 km/h), disengage until you can resume cruising speed.

– Use speed control in flat terrain and with light loads to maximize fuel efficiency.

Cooling System

To reduce potential for engine and transmission overheating, take the following actions:

– *City Driving*

When stopped for short periods of time, shift the transmission into NEUTRAL and increase engine idle speed.

– *Highway Driving*

Reduce speed.

– *Air Conditioning*

Turn off temporarily.

SNOWPLOW

Snow plows, winches, and other aftermarket equipment should **not** be added to the front end of your vehicle. The airbag crash sensors may be affected by the change in the front end structure. The airbags could deploy unexpectedly or could fail to deploy during a collision.

WARNING!

Do not add a snow plow, winches, or any other aftermarket equipment to the front of your vehicle. This could adversely affect the functioning of the airbag system in a collision and you could be injured.

RECREATIONAL TOWING (BEHIND MOTORHOME, ETC.)

Two-Wheel Drive Models

Recreational towing of two-wheel drive models is not allowable. Towing the vehicle with the transmission in NEUTRAL can cause severe transmission damage. Removal of the driveshaft for towing is not recommended, since this would allow fluid to drain from the transmission.

Four-Wheel Drive Models

CAUTION!

- **Internal damage to the transfer case will occur if a front or rear wheel lift is used when recreational towing.**
- **The transfer case must be shifted into NEUTRAL for recreational towing. The NEUTRAL button is located on the lower left hand corner of the transfer case switch. Shifts into and out of transfer case NEUTRAL can take place with the transfer case switch in any mode position.**
- **Automatic transmissions must be placed in PARK position for recreational towing.**
- **Failure to follow these procedures can cause severe transmission and/or transfer case damage.**

Recreational Towing Procedure

WARNING!

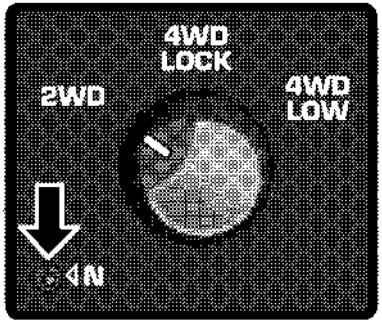
You or others could be injured if you leave the vehicle unattended with the transfer case in the NEUTRAL position without first fully engaging the parking brake. The transfer case NEUTRAL position disengages both the front and rear driveshafts from the powertrain and will allow the vehicle to move, even if the transmission is in PARK. The parking brake should always be applied when the driver is not in the vehicle.

Use the following procedure to prepare your vehicle for recreational towing.

CAUTION!

It is necessary to follow these steps to be certain that the transfer case is fully in NEUTRAL before recreational towing to prevent damage to internal parts.

1. Bring the vehicle to a complete stop.
2. Shut the engine OFF.
3. Turn the ignition key to the ON position but do not start the engine.
4. Press the brake pedal.
5. Shift the transmission into NEUTRAL.
6. Using the point of a ballpoint pen or similar object, press the transfer case NEUTRAL button for four seconds.



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NEUTRAL Button

7. After the shift is completed and the NEUTRAL light comes on, release the NEUTRAL button.

8. Start the engine.

9. Shift the transmission into REVERSE.

10. Release the brake pedal for five seconds and ensure that there is no vehicle movement.

11. Repeat Steps 9 and 10 with the transmission in DRIVE.

12. Shut the engine OFF, and place the ignition key into the unlocked OFF position.

13. Shift the transmission into PARK.

14. Attach vehicle to tow vehicle with tow bar.

15. Disconnect the negative battery cable.

NOTE:

- Steps 1 through 5 are requirements that must be met prior to pressing the NEUTRAL button, and must continue to be met until the four seconds elapse and the shift has been completed. If any of these requirements (with the exception of 3 - Key ON) are not met prior to pressing the NEUTRAL button or are no

longer met during the four second timer, then the NEUTRAL indicator light will flash continuously until all requirements are met or until the NEUTRAL button is released.

- The ignition key must be ON for a shift to take place and for the position indicator lights to be operable. If the key in not ON, the shift will not take place and no position indicator lights will be on or flashing.
- A flashing NEUTRAL position indicator light indicates that shift requirements have not been met.

CAUTION!

Damage to the transmission may occur if the transmission is shifted into PARK with the transfer case in NEUTRAL and the engine running. With the transfer case in NEUTRAL, ensure that the engine is OFF prior to shifting the transmission into PARK.

Returning to Normal Operation

Use the following procedure to prepare your vehicle for normal usage.

1. Reconnect the negative battery cable.
2. The vehicle must be at a complete stop.
3. Place the ignition key in the OFF position (if it has been moved or the engine has been started).
4. Place the ignition key into the ON position (engine off).
5. Press the brake pedal.
6. Shift the transmission into NEUTRAL.
7. Using the point of a ballpoint pen or similar object, press the recessed transfer case NEUTRAL button for one second.

8. After the NEUTRAL indicator light turns off, release the NEUTRAL button.

9. After the NEUTRAL button has been released, the transfer case will shift into the position identified by the transfer case switch.

10. Start the engine. Shift the transmission into DRIVE to verify that the transfer case has engaged.

11. Set the parking brake. Shift the transmission into PARK.

NOTE:

- Steps 1 through 5 are requirements that must be met prior to pressing the NEUTRAL button, and must continue to be met until one second elapses and the shift has been completed. If any of these requirements (with the exception of 3 - key ON) are not met prior to pressing the NEUTRAL button or are no longer met during the one second time, then all of the mode position indicator lights will flash continuously until all requirements are met or until the NEUTRAL button is released.
- The ignition key must be ON for a shift to take place and for the position indicator lights to be operable. If the key is not ON, the shift will not take place and no position indicator lights will be on or flashing.
- A flashing NEUTRAL position indicator light indicates that shift requirements have not been met.

CAUTION!

- **Do not use a bumper mounted clamp-on tow bar on your vehicle. The bumper face bar will be damaged.**
- **Do not disconnect the rear driveshaft because fluid will leak from the transfer case and damage internal parts.**

WHAT TO DO IN EMERGENCIES

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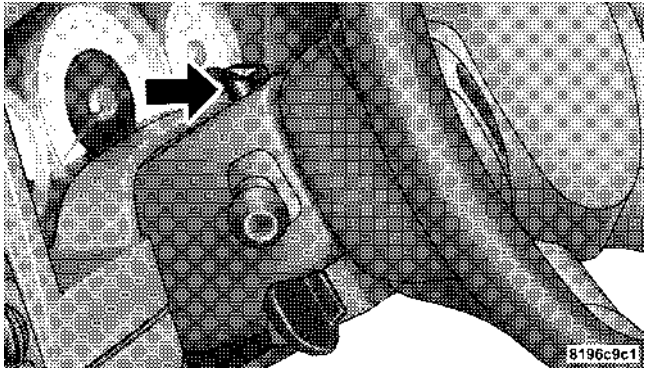
HAZARD WARNING FLASHER

The Hazard Warning flasher switch is located on the top of the steering column, just behind the steering wheel.



Hazard Warning Flasher Switch

Press the switch to turn on the Hazard Warning flasher. When the switch is activated, all directional turn signals will flash on and off to warn oncoming traffic of an emergency. Press the switch a second time to turn off the Hazard Warning flasher.

This is an emergency warning system and it should not be used when the vehicle is in motion. Use it when your vehicle is disabled and it is creating a safety hazard for other motorists.

When you must leave the vehicle to seek assistance, the Hazard Warning flasher will continue to operate even though the ignition is placed in the OFF position.

NOTE: With extended use the Hazard Warning flasher may wear down your battery.

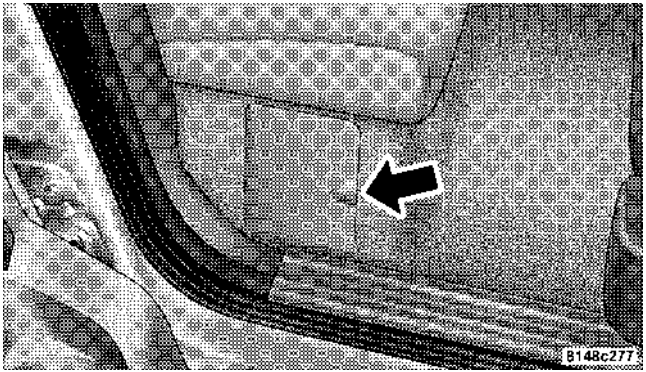
JACKING AND TIRE CHANGING

Jack Location

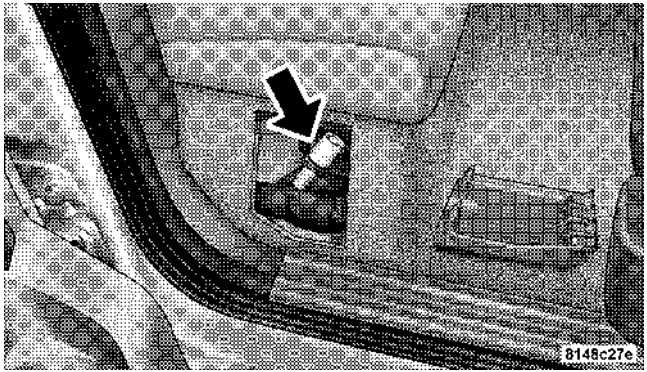
In this vehicle, the scissor jack and tire changing tools for Extended Cab models are stowed in a compartment under the rear passenger seat. Crew Cab model scissor jack and tire changing tools are accessed by lifting up the rear passenger seat.

The jack is secured in place by turning the jack screw until the jack is secured into place.

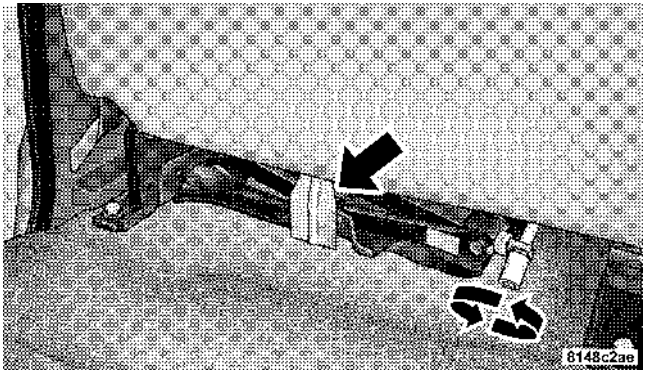
A finger-operated helper tool is provided to assist removal and stowage of the jack. This tool must be removed to operate the jack for changing the spare tire.



Jack Stowage Location (Extended Cab)



Jack Screw



Jack Stowage Location (Crew Cab)

WARNING!

The jack is designed as a tool for changing tires only. The jack should not be used to lift the vehicle for service purposes, unless suitable supports are placed under the vehicle as a safety measure. The vehicle should be jacked on a firm level surface only. Avoid icy or slippery areas.

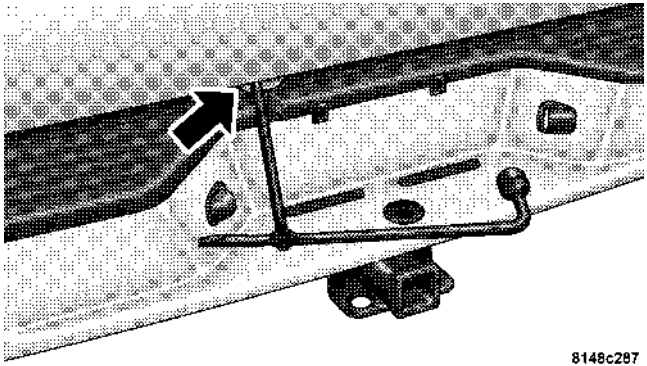
Removing The Spare Tire

Remove the spare tire before attempting to jack the truck. Attach the wheel wrench to the jack extension tube. Insert the tube through the access hole in the rear bumper and into the winch mechanism tube. Rotate the wheel wrench handle counterclockwise until the spare tire is on the ground with enough cable slack to allow you to pull it out from under the vehicle. When the spare is clear, tilt the retainer at the end of the cable and pull it through the center of the wheel.

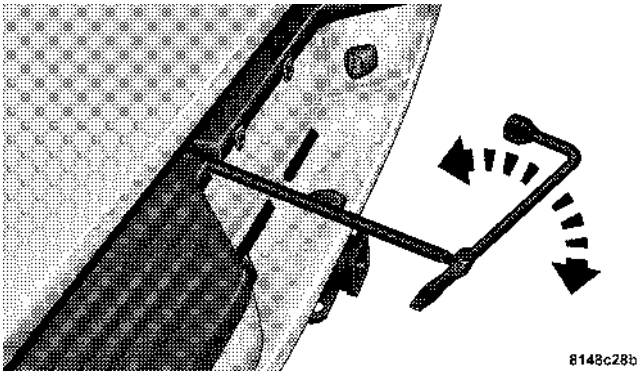
Steps for Removing the Spare Tire

- Remove the jack from the stowage compartment using the supplied finger-assist tool.
- Remove the finger-assist tool from jack and set aside until jack is stowed.
- Assemble the jack tools.
- Locate the tire carrier access hole on the rear bumper.
- Place assembled jack tool extension rod into the access hole in the direction of the arrow on the bumper trim.
- Rotate the tool counterclockwise to release and lower the spare tire to the ground so that it can be pulled from under the vehicle.

- Rotate clockwise to stow the spare tire.

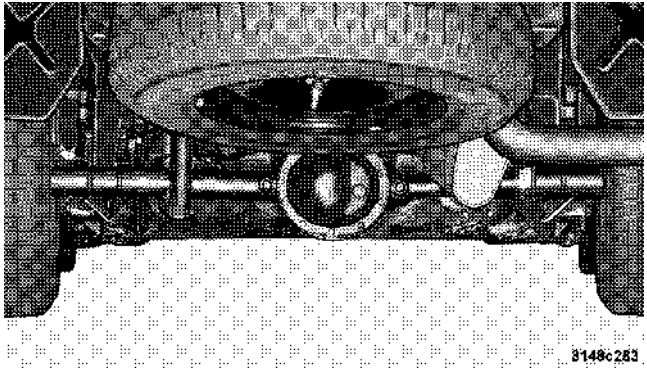


Inserting Lug Wrench and Extension



Turning Lug Wrench and Extension

It is recommended that you stow the flat or spare to avoid tangling the loose cable.



Spare Tire Stowage Location

NOTE: The winch mechanism is designed for use with the jack extension tube only. Use of an air wrench or other power tools is not recommended and can damage the winch.

Tire Changing Procedure

WARNING!

Getting under a jacked-up vehicle is dangerous. The vehicle could slip off the jack and fall on you. You could be crushed. Never get any part of your body under a vehicle that is on a jack. Never start or run the engine while the vehicle is on a jack. If you need to get under a raised vehicle, take it to a service center where it can be raised on a lift.

Do not raise this vehicle using a bumper jack. The scissor jack is designed as a tool for changing tires on this vehicle only. It is not recommended that the jack be used for service purposes or to lift more than one wheel at a time.

Preparations

1. Park the vehicle on a firm, level surface. Avoid icy or slippery areas.

WARNING!

Do not attempt to change a tire on the side of the vehicle close to moving traffic. Pull far enough off the road to avoid the danger of being hit when operating the jack or changing the wheel.

2. Turn on the Hazard Warning flasher.

3. Set the parking brake.

4. Place the shift lever in PARK (automatic transmission). On 4-Wheel Drive vehicles, shift the transfer case to the 4L position.

5. Turn the ignition OFF.

6. Block both the front and rear of the wheel diagonally opposite the jacking position. For example, if the right front wheel is being changed, block the left rear wheel.

NOTE: Passengers should not remain in the vehicle when the vehicle is being jacked.

Instructions

WARNING!

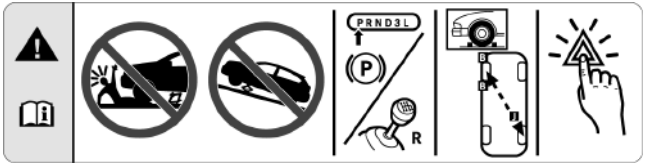
Carefully follow these tire changing warnings to help prevent personal injury or damage to your vehicle:

- **Always park on a firm, level surface as far from the edge of the roadway as possible before raising the vehicle.**
- **Turn on the Hazard Warning flasher.**
- **Block the wheel diagonally opposite the wheel to be raised.**
- **Set the parking brake firmly and set an automatic transmission in PARK; a manual transmission in REVERSE.**
- **Never start or run the engine with the vehicle on a jack.**

(Continued)

WARNING! (Continued)

- **Do not let anyone sit in the vehicle when it is on a jack.**
- **Do not get under the vehicle when it is on a jack.**
- **Only use the jack in the positions indicated and for lifting this vehicle during a tire change.**
- **If working on or near a roadway, be extremely careful of motor traffic.**
- **To assure that spare tires, flat or inflated, are securely stowed, spares must be stowed with the valve stem facing the ground.**

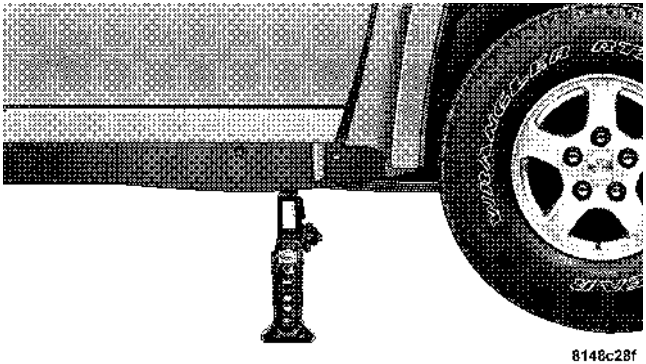


Jack Warning Label

1. Lower and remove the spare wheel, jack, and tools from stowage.

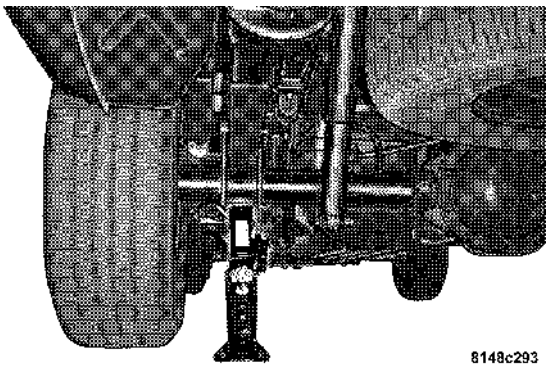
2. Using the wheel wrench, loosen, but do not remove, the wheel nuts by turning them counterclockwise one turn while the wheel is still on the ground.

3. When changing a front wheel, place the jack under the frame rail behind the wheel. Locate the jack as far forward as possible on the straight part of the frame prior to inboard transition, as shown. Operate the jack using the jack drive tube and the wheel wrench - the tube extension, may be used but is not required.

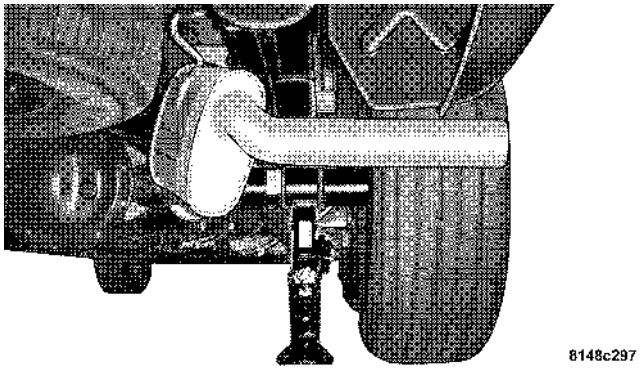


Positioning of the Jack Front Wheels

4. When changing a rear wheel, assemble the jack drive tube to the jack and connect the drive tube to the extension tube. Place the jack under the axle in the positions shown with the drive tubes extending to the rear. Connect the jack tube extension and wheel wrench.



Left Rear Jacking Location



Right Rear Jacking Location

NOTE: Before raising the wheel off the ground, make sure that the jack will not damage surrounding truck parts and adjust the jack position as required.

5. By rotating the wheel wrench clockwise, raise the vehicle until the wheel just clears the surface.

WARNING!

Raising the vehicle higher than necessary can make the vehicle unstable and cause a collision. It could slip off the jack and hurt someone near it. Raise the vehicle only enough to remove the tire.

6. Remove the wheel nuts and pull the wheel off. Install the spare wheel and wheel nuts with the cone shaped end of the nuts toward the wheel. Lightly tighten the nuts. To avoid risk of forcing the vehicle off the jack, do not fully tighten the nuts until the vehicle has been lowered.

7. Using the wheel wrench, finish tightening the nuts in a crisscross pattern. The correct nut tightness is 120 to 160 ft lbs (163 to 217 N·m). If in doubt about the correct tightness, have them checked with a torque wrench by your authorized dealer or at a service station.

WARNING!

A loose tire or jack thrown forward in a collision or hard stop could injure someone in the vehicle. Always stow the jack, tools and the extra tire and wheel in the places provided.

8. Lower the jack to its fully closed position. Stow the replaced tire, jack, and tools as previously described.

9. Adjust the tire pressure when possible.

NOTE: Do not oil wheel studs. For chrome wheels, do not substitute with chrome plated wheel nuts.

WARNING!

Carefully follow these tire changing warnings to help prevent personal injury or damage to your vehicle:

- **Always park on a firm, level surface as far from the edge of the roadway as possible before raising the vehicle.**
- **Block the wheel diagonally opposite the wheel to be raised.**
- **Apply the parking brake firmly before jacking.**
- **Never start the engine with the vehicle on a jack.**
- **Do not let anyone sit in the vehicle when it is on a jack.**
- **Do not get under the vehicle when it is on a jack.**
- **Only use the jack in the positions indicated.**

(Continued)

WARNING! (Continued)

- **If working on or near a roadway, be extremely careful of motor traffic.**
- **To assure that spare tires, flat or inflated, are securely stowed, spares must be stowed with the valve stem facing the ground.**

To Stow the Flat or Spare

Turn the wheel so that the valve stem is down. Slide the wheel retainer through the center of the wheel and position it properly across the wheel opening.

For convenience in checking the spare tire inflation, stow with the valve stem toward the rear of the vehicle.

Rotate the winch mechanism until the wheel is drawn into place against the underside of the vehicle. Continue to rotate until you feel the winch mechanism slip or click three times. It cannot be overtightened. Push against the tire several times to be sure it is firmly in place.

NOTE: To Stow the Flat or Spare: Wheel retainer does not fit through the center of the aluminum wheel. The tire must be stored in a safe manner in the bed of the truck.

JUMP-STARTING PROCEDURES

If your vehicle has a discharged battery it can be jump-started using a set of jumper cables and a battery in another vehicle or by using a portable battery booster pack. Jump-starting can be dangerous if done improperly so please follow the procedures in this section carefully.

NOTE: When using a portable battery booster pack follow the manufacturer's operating instructions and precautions.

CAUTION!

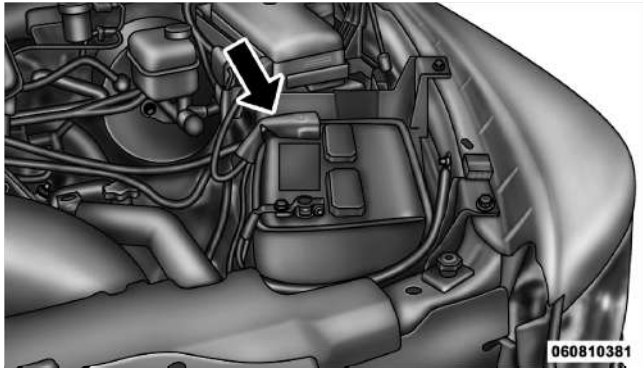
Do not use a portable battery booster pack or any other booster source with a system voltage greater than 12 Volts or damage to the battery, starter motor, alternator or electrical system may occur.

WARNING!

Do not attempt jump-starting if the battery is frozen. It could rupture or explode and cause personal injury.

Preparations for Jump-Start

The battery in your vehicle is located in the front of the engine compartment, behind the left headlight assembly.



Positive Battery Post

WARNING!

- **Take care to avoid the radiator cooling fan whenever the hood is raised. It can start anytime the ignition switch is on. You can be injured by moving fan blades.**
- **Remove any metal jewelry such as watch bands or bracelets that might make an inadvertent electrical contact. You could be seriously injured.**
- **Batteries contain sulfuric acid that can burn your skin or eyes and generate hydrogen gas which is flammable and explosive. Keep open flames or sparks away from the battery.**

1. Set the parking brake, shift the automatic transmission into PARK and turn the ignition to LOCK.

2. Turn off the heater, radio, and all unnecessary electrical accessories.

3. If using another vehicle to jump-start the battery, park the vehicle within the jumper cables reach, set the parking brake and make sure the ignition is OFF.

WARNING!

Do not allow vehicles to touch each other as this could establish a ground connection and personal injury could result.

Jump-Starting Procedure

WARNING!

Failure to follow this procedure could result in personal injury or property damage due to battery explosion.

CAUTION!

Failure to follow these procedures could result in damage to the charging system of the booster vehicle or the discharged vehicle.

1. Connect the positive **(+)** end of the jumper cable to the positive **(+)** post of the discharged vehicle.

2. Connect the opposite end of the positive **(+)** jumper cable to the positive **(+)** post of the booster battery.

3. Connect the negative end **(-)** of the jumper cable to the negative **(-)** post of the booster battery.

4. Connect the opposite end of the negative **(-)** jumper cable to a good engine ground (exposed metal part of the discharged vehicle's engine) away from the battery and the fuel injection system.

WARNING!

Do not connect the cable to the negative post (-) of the discharged battery. The resulting electrical spark could cause the battery to explode and could result in personal injury.

5. Start the engine in the vehicle that has the booster battery, let the engine idle a few minutes, and then start the engine in the vehicle with the discharged battery.

Once the engine is started, remove the jumper cables in the reverse sequence:

6. Disconnect the negative **(-)** jumper cable from the engine ground of the vehicle with the discharged battery.

7. Disconnect the negative end **(-)** of the jumper cable from the negative **(-)** post of the booster battery.

8. Disconnect the opposite end of the positive **(+)** jumper cable from the positive **(+)** post of the booster battery.

9. Disconnect the positive **(+)** end of the jumper cable from the positive **(+)** post of the discharged vehicle.

10. Reinstall the air intake duct.

If frequent jump-starting is required to start your vehicle you should have the battery and charging system inspected at your authorized dealer.

CAUTION!

Accessories that can be plugged into the vehicle power outlets draw power from the vehicle's battery, even when not in use (i.e., cellular phones, etc.). Eventually, if plugged in long enough, the vehicle's battery will discharge sufficiently to degrade battery life and/or prevent the engine from starting.

FREEING A STUCK VEHICLE

If vehicle becomes stuck in snow, sand, or mud, it can often be moved by a rocking motion. Move the shift lever rhythmically between FIRST and REVERSE, while applying slight pressure to the accelerator.

CAUTION!

Racing the engine or spinning the wheels may lead to transmission overheating and failure. Allow the engine to idle with the shift lever in NEUTRAL for at least one minute after every five rocking-motion cycles. This will minimize overheating and reduce the risk of transmission failure during prolonged efforts to free a stuck vehicle.

WARNING!

Fast spinning tires can be dangerous. Forces generated by excessive wheel speeds may cause damage, or even failure, of the axle and tires. A tire could explode and injure someone. Do not spin your vehicle's wheels faster than 30 mph (48 km/h) or for longer than 30 seconds continuously without stopping when you are stuck. And do not let anyone near a spinning wheel, no matter what the speed.

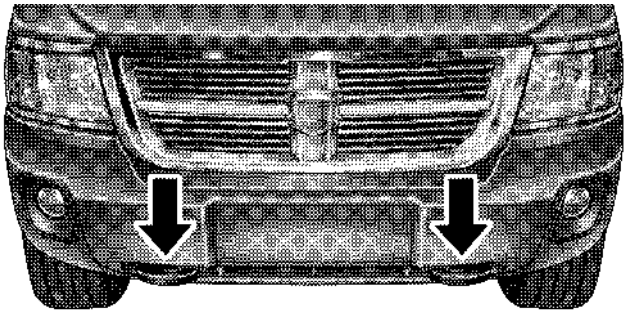
The least amount of accelerator pedal pressure to maintain the rocking motion without spinning the wheels or racing the engine is most effective. Allow the engine to idle with the shift lever in NEUTRAL for at least one minute after every five rocking-motion cycles. This will minimize overheating and reduce the risk of transmission failure during prolonged efforts to free a stuck vehicle.

CAUTION!

Revving the engine or spinning the wheels too fast may lead to transaxle overheating and failure. It can also damage the tires. Do not spin the wheels above 30 mph (48 km/h). Do not spin the wheels continuously for more than 30 seconds.

EMERGENCY TOW HOOKS — IF EQUIPPED

Your vehicle may be equipped with emergency tow hooks.



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Tow Hooks

WARNING!

- **Chains are not recommended for freeing a stuck vehicle. Chains may break, causing serious injury or death.**
- **Stand clear of vehicles when pulling with tow hooks. Tow straps and chains may break, causing serious injury.**

CAUTION!

Tow hooks are for emergency use only, to rescue a vehicle stranded off road. Do not use tow hooks for tow truck hookup or highway towing. You could damage your vehicle.

TOWING A DISABLED VEHICLE

Proper towing or lifting equipment is required to prevent damage to your vehicle. Use of safety chains is recommended. **Attach towing device to main structural members of the vehicle, not to bumpers or associated brackets. State and local laws, applying to vehicles under tow, must be observed.**

Four-Wheel Drive Vehicles

The manufacturer recommends towing with all wheels **OFF** the ground. Acceptable methods are to tow the vehicle on a flatbed or with one end of the vehicle raised and the opposite end on a towing dolly.

Two-Wheel Drive Vehicles

Provided that the transmission is operable, tow with the transmission in NEUTRAL and the ignition key in the OFF position, along with the front wheels raised and the rear wheels on the ground. The speed must not exceed 30 mph (50 km/h), and the distance must not exceed 15 miles (25 km).

If the vehicle is to be towed more than 15 miles (25 km) or faster than 30 mph (50 km/h), it must be towed on a flatbed, or with the rear wheels raised and the front wheels on the ground, or with the front end raised and the rear wheels on a towing dolly.

CAUTION!

Towing the vehicle with the rear wheels on the ground at more than 30 mph (50 km/h) or for more than 15 miles (25 km), can cause severe transmission damage. Such damage is not covered by the New Vehicle Limited Warranty.

MAINTAINING YOUR VEHICLE

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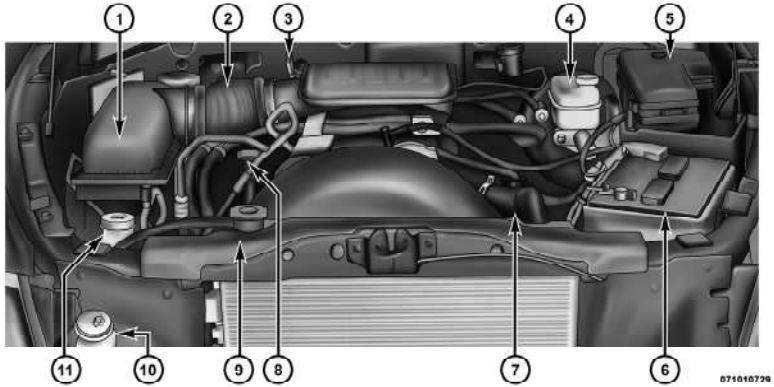
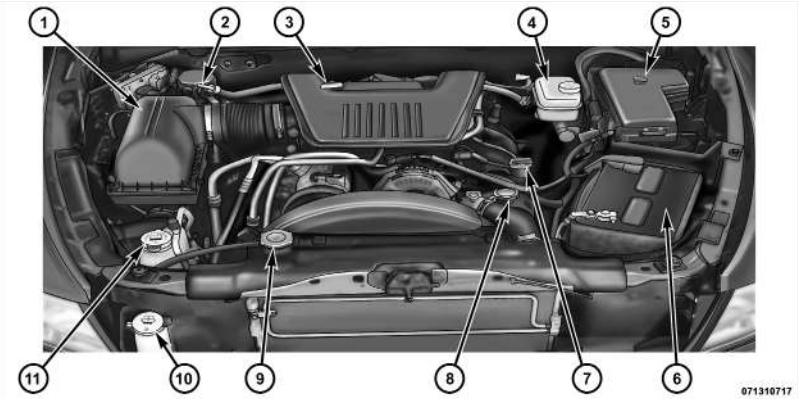
ENGINE COMPARTMENT — 3.7L



1 — Air Cleaner Filter
2 — Automatic Transmission Dipstick
3 — Engine Oil Dipstick
4 — Brake Fluid Reservoir
5 — Power Distribution Center
6 — Battery
7 — Power Steering Fluid Reservoir
8 — Engine Oil Fill
9 — Coolant Pressure Cap
10 — Washer Fluid Reservoir
11 — Engine Coolant Reservoir

ENGINE COMPARTMENT — 4.7L



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ONBOARD DIAGNOSTIC SYSTEM — OBD II

Your vehicle is equipped with a sophisticated onboard diagnostic system called OBD II. This system monitors the performance of the emissions, engine, and automatic transmission control systems. When these systems are operating properly, your vehicle will provide excellent performance and fuel economy, as well as engine emissions well within current government regulations.

If any of these systems require service, the OBD II system will turn on the "Malfunction Indicator Light" (MIL). It will also store diagnostic codes and other information to assist your service technician in making repairs. Although your vehicle will usually be drivable and not need towing, see your authorized dealer for service as soon as possible.

CAUTION!

- **Prolonged driving with the MIL on could cause further damage to the emission control system. It could also affect fuel economy and drivability. The vehicle must be serviced before any emissions tests can be performed.**
- **If the MIL is flashing while the engine is running, severe catalytic converter damage and power loss will soon occur. Immediate service is required.**

Loose Fuel Filler Cap Message

After fuel is added, the vehicle diagnostic system can determine if the fuel filler cap is possibly loose, improperly installed, or damaged. A "gASCAP" message will be displayed in the odometer. Tighten the gas cap until a "clicking" sound is heard. This is an indication that the gas cap is properly tightened. Press the odometer reset button to turn the message off. If the problem persists,

the message will appear the next time the vehicle is started. This might indicate a damaged cap. If the problem is detected twice in a row, the system will turn on the MIL. Resolving the problem will turn the MIL off.

EMISSIONS INSPECTION AND MAINTENANCE PROGRAMS

In some localities, it may be a legal requirement to pass an inspection of your vehicle's emissions control system. Failure to pass could prevent vehicle registration.

For states that require an Inspection and Maintenance (I/M), this check verifies the "Malfunction Indicator Light (MIL)" is functioning and is not on when the engine is running, and that the OBD II system is ready for testing.

Normally, the OBD II system will be ready. The OBD II system may **not** be ready if your vehicle was recently serviced, recently had a dead battery or a battery replacement. If the OBD II system should be determined not ready for the I/M test, your vehicle may fail the test.

Your vehicle has a simple ignition key-actuated test, which you can use prior to going to the test station. To check if your vehicle's OBD II system is ready, you must do the following:

1. Turn the ignition switch to the ON position, but do not crank or start the engine.

2. If you crank or start the engine, you will have to start this test over.

3. As soon as you turn the ignition switch to the ON position, you will see the MIL symbol come on as part of a normal bulb check.

4. Approximately 15 seconds later, one of two things will happen:

a. The MIL will flash for about 10 seconds and then return to being fully illuminated until you turn OFF the ignition or start the engine. This means that your vehicle's OBD II system is **not ready** and you should **not** proceed to the I/M station.

b. The MIL will not flash at all and will remain fully illuminated until you turn OFF the ignition or start the engine. This means that your vehicle's OBD II system is **ready** and you can proceed to the I/M station.

If your OBD II system is **not ready,** you should see your authorized dealer or repair facility. If your vehicle was recently serviced or had a battery failure or replacement, you may need to do nothing more than drive your vehicle as you normally would in order for your OBD II system to update. A recheck with the above test routine may then indicate that the system is now ready.

Regardless of whether your vehicle's OBD II system is ready or not, if the MIL is illuminated during normal vehicle operation you should have your vehicle serviced before going to the I/M station. The I/M station can fail your vehicle because the MIL is on with the engine running.

REPLACEMENT PARTS

Use of genuine MOPAR® parts for normal/scheduled maintenance and repairs is highly recommended to ensure the designed performance. Damage or failures caused by the use of non-MOPAR® parts for maintenance and repairs will not be covered by the manufacturer's warranty.

DEALER SERVICE

Your authorized dealer has the qualified service personnel, special tools, and equipment to perform all service operations in an expert manner. Service Manuals are available which include detailed service information for

your vehicle. Refer to these Service Manuals before attempting any procedure yourself.

NOTE: Intentional tampering with emissions control systems may void your warranty and could result in civil penalties being assessed against you.

WARNING!

You can be badly injured working on or around a motor vehicle. Only do service work for which you have the knowledge and the proper equipment. If you have any doubt about your ability to perform a service job, take your vehicle to a competent mechanic.

MAINTENANCE PROCEDURES

The pages that follow contain the **required** maintenance services determined by the engineers who designed your vehicle.

Besides those maintenance items specified in the fixed maintenance schedule, there are other components which may require servicing or replacement in the future.

CAUTION!

- **Failure to properly maintain your vehicle or perform repairs and service when necessary could result in more costly repairs, damage to other components or negatively impact vehicle performance. Immediately have potential malfunctions examined by an authorized Chrysler Group LLC dealership or qualified repair center.**

(Continued)

CAUTION! (Continued)

- **Your vehicle has been built with improved fluids that protect the performance and durability of your vehicle and also allow extended maintenance intervals. Do not use chemical flushes in these components as the chemicals can damage your engine, transmission, power steering or air conditioning. Such damage is not covered by the New Vehicle Limited Warranty. If a flush is needed because of component malfunction, use only the specified fluid for the flushing procedure.**

Engine Oil

Checking Oil Level

To assure proper lubrication of your vehicle's engine, the engine oil must be maintained at the correct level. The best time to check the engine oil level is about five minutes after a fully warmed-up engine is shut off.

Checking the oil while the vehicle is on level ground will improve the accuracy of the oil level readings. Always maintain the oil level within the SAFE zone on the dipstick. Adding one quart/liter of oil when the reading is at the bottom of the SAFE zone will result in a reading at the top of the safe zone on these engines.

CAUTION!

Overfilling or underfilling the crankcase will cause oil aeration or loss of oil pressure. This could damage your engine.

Change Engine Oil

The oil change indicator system will remind you that it is time to take your vehicle in for scheduled maintenance. Refer to the "Maintenance Schedule" for further information.

NOTE: Under no circumstances should oil change intervals exceed 8,000 miles (13 000 km) or six months, whichever occurs first.

Engine Oil Selection

For best performance and maximum protection under all types of operating conditions, the manufacturer only recommends engine oils that are API certified and meet the requirements of Chrysler Material Standard MS-6395.

American Petroleum Institute (API) Engine Oil Identification Symbol

This symbol means that the oil has been certified by the American Petroleum Institute (API). The manufacturer only recommends API Certified engine oils.

CAUTION!

Do not use chemical flushes in your engine oil as the chemicals can damage your engine. Such damage is not covered by the New Vehicle Limited Warranty.

Engine Oil Viscosity (SAE Grade)

SAE 5W-20 engine oil is recommended for all operating temperatures. This engine oil improves low temperature starting and vehicle fuel economy.

The engine oil filler cap also shows the recommended engine oil viscosity for your vehicle. For information on engine oil filler cap location, refer to “Engine Compartment” in “Maintaining Your Vehicle” for further information.

Lubricants which do not have both the engine oil certification mark and the correct SAE viscosity grade number should not be used.

Synthetic Engine Oils

You may use synthetic engine oils, provided the recommended oil quality requirements are met, and the recommended maintenance intervals for oil and filter changes are followed.

Materials Added to Engine Oils

The manufacturer strongly recommends against the addition of any additives (other than leak detection dyes) to the engine oil. Engine oil is an engineered product and its performance may be impaired by supplemental additives.

Disposing of Used Engine Oil And Oil Filters

Care should be taken in disposing of used engine oil and oil filters from your vehicle. Used oil and oil filters, indiscriminately discarded, can present a problem to the environment. Contact your authorized dealer, service station, or governmental agency for advice on how and where used oil and oil filters can be safely discarded in your area.

Engine Oil Filter

The engine oil filter should be replaced with a new filter at every engine oil change.

Engine Oil Filter Selection

The manufacturer's engines have a full-flow type oil filter. Use a filter of this type for replacement. The quality of replacement filters varies considerably. Only high quality filters should be used to assure most efficient service. MOPAR® engine oil filters are a high quality oil filter and are recommended.

Engine Air Cleaner Filter

Refer to the "Maintenance Schedule" for the proper maintenance intervals.

WARNING!

The air induction system (air cleaner, hoses, etc) can provide a measure of protection in the case of engine backfire. Do not remove the air induction system (air cleaner, hoses, etc.) unless such removal is necessary for repair or maintenance. Make sure that no one is near the engine compartment before starting the vehicle with the air induction system (air cleaner, hoses, etc.) removed. Failure to do so can result in serious personal injury.

Engine Air Cleaner Filter Selection

The quality of replacement engine air cleaner filters varies considerably. Only high quality filters should be used to assure most efficient service. MOPAR® engine air cleaner filters are a high quality filter and are recommended.

Maintenance-Free Battery

Your vehicle is equipped with a maintenance-free battery. You will never have to add water, nor is periodic maintenance required.

WARNING!

- **Battery fluid is a corrosive acid solution and can burn or even blind you. Do not allow battery fluid to contact your eyes, skin, or clothing. Do not lean over a battery when attaching clamps. If acid splashes in eyes or on skin, flush the area immediately with large amounts of water. Refer to "Jump-Starting Procedures" in "What To Do In Emergencies" for further information.**

(Continued)

WARNING! (Continued)

- **Battery gas is flammable and explosive. Keep flame or sparks away from the battery. Do not use a booster battery or any other booster source with an output greater than 12 Volts. Do not allow cable clamps to touch each other.**
- **Battery posts, terminals, and related accessories contain lead and lead compounds. Wash hands after handling.**

CAUTION!

- **It is essential when replacing the cables on the battery that the positive cable is attached to the positive post and the negative cable is attached to the negative post. Battery posts are marked positive (+) and negative (-) and are identified on the battery case. Cable clamps should be tight on the terminal posts and free of corrosion.**
- **If a "fast charger" is used while the battery is in the vehicle, disconnect both vehicle battery cables before connecting the charger to the battery. Do not use a "fast charger" to provide starting voltage.**

Air Conditioner Maintenance

For best possible performance, your air conditioner should be checked and serviced by an authorized dealer at the start of each warm season. This service should include cleaning of the condenser fins and a performance test. Drive belt tension should also be checked at this time.

CAUTION!

Do not use chemical flushes in your air conditioning system as the chemicals can damage your air conditioning components. Such damage is not covered by the New Vehicle Limited Warranty.

WARNING!

- **Use only refrigerants and compressor lubricants approved by the manufacturer for your air conditioning system. Some unapproved refrigerants are flammable and can explode, injuring you. Other unapproved refrigerants or lubricants can cause the system to fail, requiring costly repairs. Refer to Warranty Information Book, located on the DVD, for further warranty information.**
- **The air conditioning system contains refrigerant under high pressure. To avoid risk of personal injury or damage to the system, adding refrigerant or any repair requiring lines to be disconnected, should be done by an experienced repairman.**

NOTE: Use only manufacturer approved A/C System Sealers, Stop Leak Products, Seal Conditioners, Compressor Oils and Refrigerants.

Refrigerant Recovery and Recycling

R-134a air conditioning refrigerant is a hydrofluorocarbon (HFC) that is endorsed by the Environmental Protection Agency (EPA), and is an ozone-saving product. However, the manufacturer recommends that air conditioning service be performed by authorized dealers or other service facilities using recovery and recycling equipment.

Body Lubrication

Locks and all body pivot points, including such items as seat tracks, door hinge pivot points and rollers, liftgate, tailgate, sliding doors and hood hinges, should be lubricated periodically with a lithium based grease, such as MOPAR® Spray White Lube or equivalent, to assure quiet, easy operation and to protect against rust and wear. Prior to the application of any lubricant, the parts concerned should be wiped clean to remove dust and grit; after lubricating excess oil and grease should be removed. Particular attention should also be given to hood latching components to ensure proper function. When performing other underhood services, the hood latch, release mechanism and safety catch should be cleaned and lubricated.

The external lock cylinders should be lubricated twice a year, preferably in the Fall and Spring. Apply a small amount of a high quality lubricant, such as MOPAR® Lock Cylinder Lubricant or equivalent directly into the lock cylinder.

Windshield Wiper Blades

Clean the rubber edges of the wiper blades and the windshield periodically with a sponge or soft cloth and a mild nonabrasive cleaner. This will remove accumulations of salt or road film.

Operation of the wipers on dry glass for long periods may cause deterioration of the wiper blades. Always use washer fluid when using the wipers to remove salt or dirt from a dry windshield.

Avoid using the wiper blades to remove frost or ice from the windshield. Keep the blade rubber out of contact with petroleum products such as engine oil, gasoline, etc.

NOTE: Life expectancy of wiper blades varies depending on geographical area and frequency of use. Poor performance of blades may be present with chattering, marks, water lines or wet spots. If any of these conditions are present, clean the wiper blades or replace as necessary.

Adding Washer Fluid

The fluid reservoir should be checked for fluid level at regular intervals. When freezing weather is anticipated, flush out the water in the reservoir by operating the system. Fill the reservoir with windshield washer antifreeze (not radiator antifreeze), and operate the system for a few seconds to flush out the residual water.

To prevent freeze-up of your windshield washer system in cold weather, select a solution or mixture that meets or exceeds the temperature range of your climate. This rating information can be found on most washer fluid containers.

WARNING!

Commercially available windshield washer solvents are flammable. They could ignite and burn you. Care must be exercised when filling or working around the washer solution.

Exhaust System

The best protection against carbon monoxide entry into the vehicle body is a properly maintained engine exhaust system.

If you notice a change in the sound of the exhaust system; or if the exhaust fumes can be detected inside the vehicle; or when the underside or rear of the vehicle is damaged;

have an authorized technician inspect the complete exhaust system and adjacent body areas for broken, damaged, deteriorated, or mispositioned parts. Open seams or loose connections could permit exhaust fumes to seep into the passenger compartment. In addition, inspect the exhaust system each time the vehicle is raised for lubrication or oil change. Replace as required.

WARNING!

- **Exhaust gases can injure or kill. They contain carbon monoxide (CO), which is colorless and odorless. Breathing it can make you unconscious and can eventually poison you. To avoid breathing CO, refer to "Safety Tips/Exhaust Gas" in "Things To Know Before Starting Your Vehicle" for further information.**

(Continued)

WARNING! (Continued)

- **A hot exhaust system can start a fire if you park over materials that can burn. Such materials might be grass or leaves coming into contact with your exhaust system. Do not park or operate your vehicle in areas where your exhaust system can contact anything that can burn.**

CAUTION!

- **The catalytic converter requires the use of unleaded fuel only. Leaded gasoline will destroy the effectiveness of the catalyst as an emissions control device and may seriously reduce engine performance and cause serious damage to the engine.**

(Continued)

CAUTION! (Continued)

- **Damage to the catalytic converter can result if your vehicle is not kept in proper operating condition. In the event of engine malfunction, particularly involving engine misfire or other apparent loss of performance, have your vehicle serviced promptly. Continued operation of your vehicle with a severe malfunction could cause the converter to overheat, resulting in possible damage to the converter and vehicle.**

Under normal operating conditions, the catalytic converter will not require maintenance. However, it is important to keep the engine properly tuned to assure proper catalyst operation and prevent possible catalyst damage.

NOTE: Intentional tampering with emissions control systems can result in civil penalties being assessed against you.

In unusual situations involving grossly malfunctioning engine operation, a scorching odor may suggest severe and abnormal catalyst overheating. If this occurs, stop the vehicle, turn off the engine and allow it to cool. Service, including a tune-up to manufacturer's specifications, should be obtained immediately.

To minimize the possibility of catalytic converter damage:

- Do not shut off the engine or interrupt the ignition, when the transmission is in gear and the vehicle is in motion.
- Do not try to start the engine by pushing or towing the vehicle.

- Do not idle the engine with any spark plug wires disconnected or removed, such as when diagnostic testing, or for prolonged periods during very rough idle or malfunctioning operating conditions.

Cooling System

WARNING!

You or others can be badly burned by hot engine coolant (antifreeze) or steam from your radiator. If you see or hear steam coming from under the hood, do not open the hood until the radiator has had time to cool. Never try to open a cooling system pressure cap when the radiator is hot.

Engine Coolant Checks

Check the engine coolant (antifreeze) protection every 12 months (before the onset of freezing weather, where applicable). If the engine coolant (antifreeze) is dirty or rusty in appearance, the system should be drained, flushed and refilled with fresh engine coolant (antifreeze). Check the front of the A/C condenser and radiator for any accumulation of bugs, leaves, etc. If dirty, clean by gently spraying water from a garden hose vertically down the face of the condenser and radiator.

Check the coolant recovery bottle tubing for brittle rubber, cracking, tears, cuts and tightness of the connection at the bottle and radiator. Inspect the entire system for leaks.

With the engine at normal operating temperature (but not running), check the cooling system pressure cap for proper vacuum sealing by draining a small amount of engine coolant (antifreeze) from the radiator drain cock. If the cap is sealing properly, the engine coolant (antifreeze) will begin to drain from the coolant recovery bottle. DO NOT REMOVE THE COOLANT PRESSURE CAP WHEN THE COOLING SYSTEM IS HOT.

Cooling System – Drain, Flush, and Refill

If the engine coolant (antifreeze) is dirty or contains a considerable amount of sediment, clean and flush with a reliable cooling system cleaner. Follow with a thorough rinsing to remove all deposits and chemicals. Properly dispose of the old engine coolant (antifreeze) solution.

Refer to the "Maintenance Schedule" for the proper maintenance intervals.

Selection Of Coolant

Use only the manufacturer's recommended engine coolant (antifreeze). Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

CAUTION!

- **Mixing of engine coolant (antifreeze) other than specified HOAT engine coolant (antifreeze) may result in engine damage and may decrease corrosion protection. If a non-HOAT engine coolant (antifreeze) is introduced into the cooling system in an emergency, it should be replaced with the specified engine coolant (antifreeze) as soon as possible.**
- **Do not use plain water alone or alcohol based engine coolant (antifreeze) products. Do not use additional rust inhibitors or antirust products, as they may not be compatible with the engine coolant (antifreeze) and may plug the radiator.**

(Continued)

CAUTION! (Continued)

- **This vehicle has not been designed for use with Propylene Glycol-based engine coolant (antifreeze). Use of Propylene Glycol-based engine coolant (antifreeze) is not recommended.**

Adding Coolant

Your vehicle has been built with an improved engine coolant (antifreeze) that allows extended maintenance intervals. This engine coolant (antifreeze) can be used up to five years or 104,000 miles (169 000 km) before replacement. To prevent reducing this extended maintenance period, it is important that you use the same engine coolant (antifreeze) throughout the life of your vehicle.

Please review these recommendations for using Hybrid Organic Additive Technology (HOAT) engine coolant (antifreeze). When adding engine coolant (antifreeze):

- The manufacturer recommends using MOPAR® Antifreeze/Coolant 5 Year/100,000 Mile Formula HOAT (Hybrid Organic Additive Technology) or equivalent.
- Mix a minimum solution of 50% HOAT engine coolant and distilled water. Use higher concentrations (not to exceed 70%) if temperatures below −34°F (−37°C) are anticipated.
- Use only high purity water such as distilled or deionized water when mixing the water/engine coolant (antifreeze) solution. The use of lower quality water will reduce the amount of corrosion protection in the engine cooling system.

Please note that it is the owner's responsibility to maintain the proper level of protection against freezing according to the temperatures occurring in the area where the vehicle is operated.

NOTE: Mixing engine coolant (antifreeze) types will decrease the life of the engine coolant (antifreeze) and will require more frequent coolant changes.

Cooling System Pressure Cap

The cap must be fully tightened to prevent the loss of engine coolant (antifreeze), and to ensure that the engine coolant (antifreeze) will return to the radiator from the coolant recovery bottle.

The cap should be inspected and cleaned if there is any accumulation of foreign material on the sealing surfaces.

WARNING!

- **The warning words "DO NOT OPEN HOT" on the cooling system pressure cap are a safety precaution. Never add engine coolant (antifreeze) when the engine is overheated. Do not loosen or remove the cap to cool an overheated engine. Heat causes pressure to build up in the cooling system. To prevent scalding or injury, do not remove the pressure cap while the system is hot or under pressure.**
- **Do not use a pressure cap other than the one specified for your vehicle. Personal injury or engine damage may result.**

Disposal of Used Engine Coolant

Used ethylene glycol-based engine coolant (antifreeze) is a regulated substance, requiring proper disposal. Check with your local authorities to determine the disposal rules for your community. To prevent ingestion by animals or children do not store ethylene glycol-based engine coolant (antifreeze) in open containers or allow it to remain in puddles on the ground. If ingested by a child or pet, seek emergency assistance immediately. Clean up any ground spills immediately.

Coolant Level

The coolant recovery bottle provides a quick visual method for determining that the engine coolant (antifreeze) level is adequate. With the engine cold, the level of the engine coolant (antifreeze) in the coolant recovery bottle should be between the ranges indicated on the bottle.

The radiator normally remains completely full, so there is no need to remove the radiator cap unless checking for the engine coolant (antifreeze) freeze point or replacing the engine coolant (antifreeze). Advise your service attendant of this. As long as the engine operating temperature is satisfactory, the coolant recovery bottle need only be checked once a month.

When additional engine coolant (antifreeze) is needed to maintain the proper level, it should be added to the coolant recovery bottle. Do not overfill.

Points to Remember

NOTE: When the vehicle is stopped after a few miles (kilometers) of operation, you may observe vapor coming from the front of the engine compartment. This is normally a result of moisture from rain, snow, or high humidity accumulating on the radiator and being vaporized when the thermostat opens, allowing hot engine coolant (antifreeze) to enter the radiator.

If an examination of your engine compartment shows no evidence of radiator or hose leaks, the vehicle may be safely driven. The vapor will soon dissipate.

- Do not overfill the coolant recovery bottle.
- Check the coolant freeze point in the radiator and in the coolant recovery bottle. If antifreeze needs to be added, the contents of the coolant recovery bottle must also be protected against freezing.
- If frequent engine coolant (antifreeze) additions are required, or if the level in the coolant recovery bottle does not drop when the engine cools, the cooling system should be pressure tested for leaks.
- Maintain engine coolant (antifreeze) concentration at 50% HOAT engine coolant (antifreeze) (minimum) and distilled/deionized water for proper corrosion protection of your engine, which contains aluminum components.
- Make sure that the radiator and coolant recovery bottle overflow hoses are not kinked or obstructed.
- Keep the front of the radiator clean. If your vehicle is equipped with air conditioning, also keep the front of the condenser clean.
- Do not change the thermostat for Summer or Winter operation. If replacement is ever necessary, install ONLY the correct type thermostat. Other designs may result in unsatisfactory engine coolant (antifreeze) performance, poor gas mileage, and increased emissions.

Brake System

Fluid Level Check – Brake Master Cylinder

The fluid level in the master cylinder should be checked whenever the vehicle is serviced, or immediately if the “Brake Warning Light” is on. If necessary, add fluid to bring level to the full mark on the side of the reservoir of

the brake master cylinder. Be sure to clean the top of the master cylinder area before removing the cap. With disc brakes, the fluid level can be expected to fall as the brake pads wear. Brake fluid level should be checked when pads are replaced. If the brake fluid level is abnormally low, check the system for leaks.

Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

WARNING!

- **Use only manufacturer's recommended brake fluid. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information. Using the wrong type of brake fluid can severely damage your brake system and/or impair its performance. The proper type of brake fluid for your vehicle is also labeled on the original factory installed hydraulic master cylinder reservoir.**

(Continued)

WARNING! (Continued)

- **To avoid contamination from foreign matter or moisture, use only new brake fluid or fluid that has been in a tightly closed container. Keep the master cylinder reservoir cap secured at all times. Brake fluid in a open container absorbs moisture from the air resulting in a lower boiling point. This may cause it to boil unexpectedly during hard or prolonged braking, resulting in sudden brake failure. This could result in a collision.**
- **Overfilling the brake fluid reservoir can result in spilling brake fluid on hot engine parts, causing the brake fluid to catch fire. Brake fluid can also damage painted and vinyl surfaces, care should be taken to avoid its contact with these surfaces.**

(Continued)

WARNING! (Continued)

- **Do not allow petroleum based fluid to contaminate the brake fluid. Brake seal components could be damaged, causing partial or complete brake failure. This could result in a collision.**

Automatic Transmission

Selection of Lubricant

It is important that the proper lubricant is used in the transmission to assure optimum transmission performance. Use only the manufacturer's recommended transmission fluid. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information. It is important that the transmission fluid be maintained at the prescribed level using the recommended fluid. No chemical flushes should be used in any transmission; only the approved lubricant may be used.

Special Additives

Automatic Transmission Fluid (ATF) is an engineered product and its performance may be impaired by supplemental additives. Therefore, do not add any fluid additives to the transmission. The only exception to this policy is the use of special dyes to aid in detecting fluid leaks. In addition, avoid using transmission sealers as they may adversely affect seals.

NOTE: If your vehicle is equipped with a dipstick, use the following procedure. If your vehicle has a capped dipstick, it is sealed and should not be tampered with. Your authorized dealer has the proper tools to ensure that the fluid level is set properly.

Fluid Level Check

Check the fluid level while the transmission is at normal operating temperature 180° F (82° C). This occurs after at least 15 miles (24 km) of driving. At normal operating temperature the fluid cannot be held comfortably between the fingertips.

To check the automatic transmission fluid level properly, the following procedure must be used:

1. Operate the engine at idle speed and normal operating temperature.

2. The vehicle must be on level ground.

3. Fully apply the parking brake and press the brake pedal.

4. Place the shift lever momentarily into each gear position, ending with the shift lever in PARK.

5. Remove the dipstick, wipe it clean and reinsert it until seated.

6. Remove the dipstick again and note the fluid level on both sides. The fluid level should be between the "HOT" (upper) reference holes on the dipstick at normal operating temperature. Verify that solid coating of oil is seen on both sides of the dipstick. If the fluid is low, add as required into the dipstick tube. **Do not overfill.** After adding any quantity of oil through the oil fill tube, wait a minimum of two minutes for the oil to fully drain into the transmission before rechecking the fluid level.

NOTE: If it is necessary to check the transmission **below** the operating temperature, the fluid level should be between the two "COLD" (lower) holes on the dipstick with the fluid at approximately 70° F (21° C) (room temperature). If the fluid level is correctly established at room temperature, it should be between the "HOT" (upper) reference holes when the transmission reaches 180° F (82° C). Remember it is best to check the level at the normal operating temperature.

CAUTION!

Be aware that if the fluid temperature is below 50° F (10° C) it may not register on the dipstick. Do not add fluid until the temperature is elevated enough to produce an accurate reading.

7. Check for leaks. Release the parking brake.

To prevent dirt and water from entering the transmission after checking or replenishing fluid, make certain that the dipstick cap is properly reseated. It is normal for the dipstick cap to spring back slightly from its fully-seated position, as long as its seal remains engaged in the dipstick tube.

CAUTION!

- **Do not use chemical flushes in your transmission as the chemicals can damage your transmission components. Such damage is not covered by the New Vehicle Limited Warranty.**
- **Using a transmission fluid other than the manufacturer's recommended fluid may cause deterioration in transmission shift quality and/or torque converter shudder. Using a transmission fluid, other than the manufacturer's recommended fluid, will result in more frequent fluid and filter changes. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.**

Transfer Case

Inspect the transfer case for fluid leaks. If a fluid leak is evident the transfer case fluid level may be low. Have the transfer case serviced immediately.

CAUTION!

Damage may result from operation of the vehicle with low transfer case fluid.

Drain and Refill

Refer to the "Maintenance Schedule" for the proper maintenance intervals.

Lubricant Selection

Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

Front/Rear Axle Fluid

For normal service, periodic fluid level checks are not required. When the vehicle is serviced for other reasons the exterior surfaces of the axle assembly should be inspected. If gear oil leakage is suspected inspect the fluid level. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

Front Axle Fluid Level Check

Front axle fluid level should be 3/4 in (20 mm) below the bottom of the fill plug.

Rear Axle Fluid Level Check

Rear axle limited-slip differentials require the use of MOPAR® Limited-Slip Additive or equivalent. Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information. This should be added to the gear lubricant whenever a fluid change is made, when equipped with limited-slip differential. Rear axle fluid level should be 1/8 in (3 mm) below bottom of filler plug for 8-1/4 in, and 9-1/4 in axles.

Drain and Refill

Refer to the "Maintenance Schedule" for the proper maintenance intervals.

NOTE: The presence of water in the gear lubricant will result in corrosion and possible failure of differential components. Operation of the vehicle in water, as may be encountered in some off-highway types of service, will require draining and refilling the axle to avoid damage.

Selection of Lubricant

Refer to "Fluids, Lubricants, and Genuine Parts" in "Maintaining Your Vehicle" for further information.

Appearance Care and Protection from Corrosion

Protection of Body and Paint from Corrosion

Vehicle body care requirements vary according to geographic locations and usage. Chemicals that make roads

passable in snow and ice, and those that are sprayed on trees and road surfaces during other seasons, are highly corrosive to the metal in your vehicle. Outside parking, which exposes your vehicle to airborne contaminants, road surfaces on which the vehicle is operated, extreme hot or cold weather and other extreme conditions will have an adverse affect on paint, metal trim, and underbody protection.

The following maintenance recommendations will enable you to obtain maximum benefit from the corrosion resistance built into your vehicle.

What Causes Corrosion?
Corrosion is the result of deterioration or removal of paint and protective coatings from your vehicle.

The most common causes are:

- Road salt, dirt and moisture accumulation
- Stone and gravel impact
- Insects, tree sap and tar
- Salt in the air near seacoast localities
- Atmospheric fallout/industrial pollutants

Washing

- Wash your vehicle regularly. Always wash your vehicle in the shade using MOPAR® Car Wash or equivalent, or a mild car wash soap, and rinse the panels completely with clear water.
- If insects, tar or other similar deposits have accumulated on your vehicle, use MOPAR® Super Kleen Bug and Tar Remover or equivalent to remove.
- Use a high quality cleaner wax, such as MOPAR® Cleaner Wax or equivalent to remove road film, stains, and to protect your paint finish. Take care never to scratch the paint.

- Avoid using abrasive compounds and power buffing that may diminish the gloss or thin out the paint finish.

CAUTION!

- **Do not use abrasive or strong cleaning materials such as steel wool or scouring powder, which will scratch metal and painted surfaces.**
- **Use of power washers exceeding 1,200 psi (8 274 kPa) can result in damage or removal of paint and decals.**

Special Care

- If you drive on salted or dusty roads, or if you drive near the ocean, hose off the undercarriage at least once a month.
- It is important that the drain holes in the lower edges of the doors, rocker panels be kept clear and open.
- If you detect any stone chips or scratches in the paint, touch them up immediately. The cost of such repairs is considered the responsibility of the owner.
- If your vehicle is damaged due to a collision or similar cause, which destroys the paint and protective coating, have your vehicle repaired as soon as possible. The cost of such repairs is considered the responsibility of the owner.
- If you carry special cargo such as chemicals, fertilizers, de-icer salt, etc., be sure that such materials are well packaged and sealed.
- If a lot of driving is done on gravel roads, consider mud or stone shields behind each wheel.
- Use MOPAR® Touch Up Paint or equivalent on scratches as soon as possible. Your authorized dealer has touch up-paint to match the color of your vehicle.

Wheel and Wheel Trim Care

All wheels and wheel trim, especially aluminum and chrome-plated wheels, should be cleaned regularly with a mild soap and water to prevent corrosion. To remove heavy soil, use MOPAR® Wheel Cleaner or equivalent, or select a nonabrasive, non-acidic cleaner. Do not use scouring pads, steel wool, a bristle brush or metal polishes. Only MOPAR® cleaners or equivalent are recommended. Do not use oven cleaner. Avoid automatic car washes that use acidic solutions or harsh brushes that may damage the wheels' protective finish.

Stain Repel Fabric Cleaning Procedure – If Equipped

Stain Repel seats may be cleaned in the following manner:

- Remove as much of the stain as possible by blotting with a clean, dry towel.
- Blot any remaining stain with a clean, damp towel.
- For tough stains, apply MOPAR® Total Clean or equivalent or a mild soap solution to a clean, damp cloth and remove the stain. Use a fresh, damp towel to remove soap residue.
- For grease stains, apply MOPAR® Multi-Purpose Cleaner or equivalent to a clean, damp cloth and remove the stain. Use a fresh, damp towel to remove soap residue.
- Do not use any harsh solvents or any other form of protectants on Stain Repel products.

Interior Care

Use MOPAR® Total Clean or equivalent to clean fabric upholstery and carpeting.

Interior trim should be cleaned starting with a damp cloth, a damp cloth with MOPAR® Total Clean or equivalent, then MOPAR® Spot & Stain Remover or equivalent,

if absolutely necessary. Do not use harsh cleaners or Armor All®. Use MOPAR® Total Clean or equivalent to clean vinyl upholstery.

Use MOPAR® Vinyl Cleaner or equivalent to clean vinyl upholstery and trim.

Leather Seat Care and Cleaning

MOPAR® Total Clean or equivalent is specifically recommended for leather upholstery.

Your leather upholstery can be best preserved by regular cleaning with a damp soft cloth. Small particles of dirt can act as an abrasive and damage the leather upholstery and should be removed promptly with a damp cloth. Stubborn soils can be removed easily with a soft cloth and MOPAR® Total Clean or equivalent. Care should be taken to avoid soaking your leather upholstery with any liquid. Please do not use polishes, oils, cleaning fluids, solvents, detergents, or ammonia-based cleaners to clean your leather upholstery. Application of a leather conditioner is not required to maintain the original condition.

WARNING!

Do not use volatile solvents for cleaning purposes. Many are potentially flammable, and if used in closed areas they may cause respiratory harm.

Glass Surfaces

All glass surfaces should be cleaned on a regular basis with any commercial household-type glass cleaner. Never use an abrasive type cleaner. Use caution when cleaning inside rear windows equipped with electric defrosters, or windshields equipped with a windshield wiper de-icer. Do not use scrapers or other sharp instruments, which may scratch the elements.

When cleaning the rearview mirror, spray cleaner on the towel or rag that you are using. Do not spray cleaner directly on the mirror.

Cleaning Plastic Instrument Cluster Lenses
The lenses in front of the instruments in this vehicle are molded in clear plastic. When cleaning the lenses, care must be taken to avoid scratching the plastic.

1. Clean with a wet soft rag. A mild soap solution may be used, but do not use high alcohol content or abrasive cleaners. If soap is used, wipe clean with a clean damp rag.

2. Dry with a soft tissue.

Seat Belt Maintenance
Do not bleach, dye or clean the belts with chemical solvents or abrasive cleaners. This will weaken the fabric. Sun damage will also weaken the fabric.

If the belts need cleaning, use a mild soap solution or lukewarm water. Do not remove the belts from the car to wash them.

Replace the belts if they appear frayed or worn, or if the buckles do not work properly.

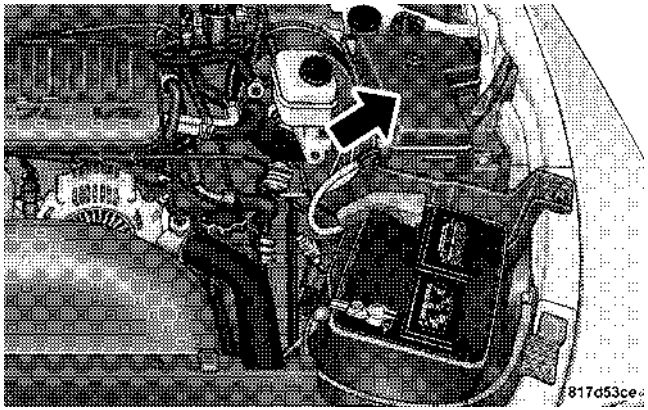
FUSES

CAUTION!

When replacing a blown fuse, it is important to use only a fuse having the correct amperage rating. The use of a fuse with a rating other than indicated may result in a dangerous electrical system overload. If a properly rated fuse continues to blow, it suggests a problem in the circuit that must be corrected.

Underhood Fuses (Power Distribution Center)

Your vehicle is equipped with an electrical power distribution center located on the left side of the engine compartment.



Power Distribution Center

This center contains cartridge fuses, mini fuses and relays. A description of each fuse and component may be stamped on the inside cover, otherwise the cavity number of each fuse is stamped on the inside cover that corresponds to the following chart. These fuses and relays can be obtained from your authorized dealer.

Cavity	Cartridge Fuse	Mini-Fuse	Description
1			Spare
2			Spare
3	30 Amp Pink		Electric Brake
4	50 Amp Red		Power Seat
5			Spare
6		20 Amp Yellow	Ignition Off Draw, Instrument Cluster, Radio

Cavity	Cartridge Fuse	Mini-Fuse	Description
7		10 Amp Red	Powertrain Control Module/Fuel/ RAD/AC Coils
8		10 Amp Red	Instrument Cluster/ Mirror/4x4
9			Spare
10		2 Amp Gray	Run/Start Ignition Switch
11		10 Amp Red	AC Clutch
12		15 Amp Blue	Trailer Tow Lt Stop/ Turn
13		15 Amp Blue	Trailer Tow Rt Stop/ Turn
14		20 Amp Yellow	Ignition Off Draw #2

Cavity	Cartridge Fuse	Mini-Fuse	Description
15		25 Amp Natural	Powertrain Control Module
16		20 Amp Yellow	Horn
17		20 Amp Yellow	Antilock Brakes Feed (Valves)
18		20 Amp Yellow	Fuel Pump
19		15 Amp Blue	Rear Center Brake Lamp
20		20 Amp Yellow	Instrument Cluster/ Door Locks/Brake Transmission Shift Interlock
21		25 Amp Natural	Audio Amp

Cavity	Cartridge Fuse	Mini-Fuse	Description
22		20 Amp Yellow	Power Outlet (Switchable)
23		20 Amp Yellow	Fog Lamps
24		20 Amp Yellow	Powertrain Control Module B+
25		15 Amp Blue	Instrument Cluster Illumination
26		20 Amp Yellow	Ignition Run/Start Feed
27		10 Amp Red	Power Mirror
28		20 Amp Yellow	Power Outlet
29		20 Amp Yellow	Body Control Module 4 (Wipers)

Cavity	Cartridge Fuse	Mini-Fuse	Description
30			Spare
31		30 Amp Green	Ignition Run/AC/Windows
32	30 Amp Pink		Body Control Module 1 (Ext. Lights # 1)
33	30 Amp Pink		Automatic Shutdown
34	30 Amp Pink		Body Control Module 2 (Ext. Light # 2)
35	40 Amp Green		Climate Control System Blower Motor
36			Spare
37			Spare
38	20 Amp Blue		Spare

Cavity	Cartridge Fuse	Mini-Fuse	Description
39	30 Amp Pink		Starter Solenoid
40	40 Amp Green		Ignition Run Feeds
41	30 Amp Pink		Wiper Motor
42		25 Amp Natural	Body Control Module 5 (T-Case)
43		10 Amp Red	Lt Park Lamps
44		10 Amp Red	Rt Park Lamps
45		20 Amp Yellow	Trailer Tow Park Lamps
46		10 Amp Red	Airbag System # 2

Cavity	Cartridge Fuse	Mini-Fuse	Description
47			Spare
48	20 Amp Blue		Sunroof/Sound Box
49	30 Amp Pink		Trailer Tow B+
50	40 Amp Green		Antilock Brakes Module (Pump)
51	40 Amp Green		Park Lamps
52			Spare
53	40 Amp Green		Rear Defogger
54			Spare
55			Spare
56		10 Amp Red	Heated Seats

Cavity	Cartridge Fuse	Mini-Fuse	Description
57		20 Amp Yellow	Airbag System # 2
58		20 Amp Yellow	Heated Seats
59		10 Amp Red	Climate Control System Module
60		10 Amp Red	Antilock Brakes Module
61		20 Amp Yellow	Body Control Module 3 (Reverse Lamps)

VEHICLE STORAGE

If you are storing your vehicle for more than 21 days, we recommend that you take the following steps to minimize the drain on your vehicle's battery:

- Disconnect the Ignition Off Draw (I.O.D.) fuses located in the Power Distribution Center (PDC). The I.O.D. cavity includes a snap-in retainer that allows the fuse to be disconnected without removing it from the fuse block.
- The transfer case should be placed in the 4HI mode and kept in this position to minimize the battery drain.
- As an alternative to the above steps you may disconnect the negative cable from the battery.

REPLACEMENT BULBS

LIGHT BULBS – Interior	Bulb No.
Dome Lamp	WL212–2
Cargo Lamp	921
Overhead Console Lamps	192
Reading Lamp	WL212–2

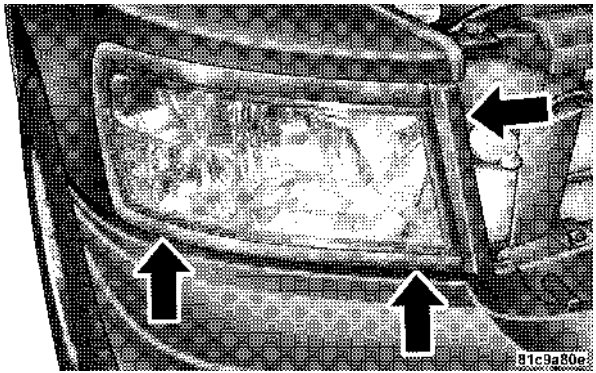
LIGHT BULBS – Exterior	Bulb No.
Headlamp	H13
Front Park/Turn/Side Marker	3157NA
Back-Up	3157
Center High Mounted Stop Lamp	921
Fog Lamp	9145
License Plate Lamp	168
Rear Tail, Stop, Turn Signal	3057

BULB REPLACEMENT

Headlamp (Halogen)/Front Park and Turn Signal Lamps

1. Open the hood

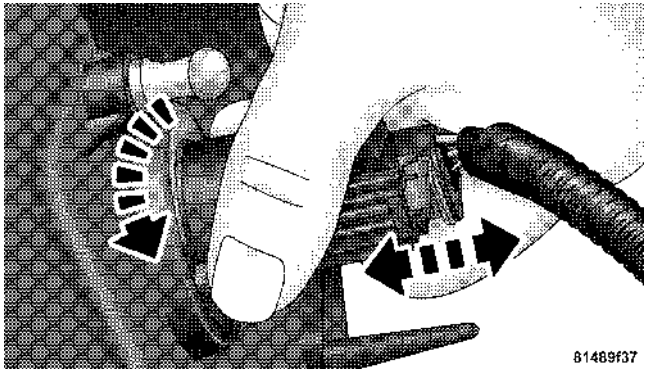
2. Remove the three bolts from the front of the headlamp housing.



3. Grasp the headlamp and pull firmly to disengage the headlamp housing from the fender panel.

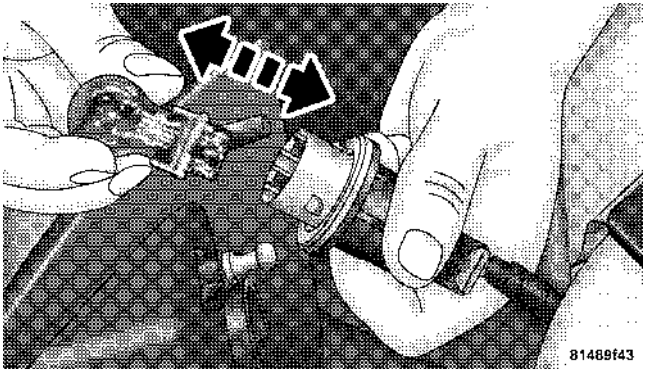
4. While firmly holding the headlamp housing in your hands, unlock and disconnect headlamp bulb connector.

5. Twist 1/4-turn and remove headlamp bulb from housing and replace.



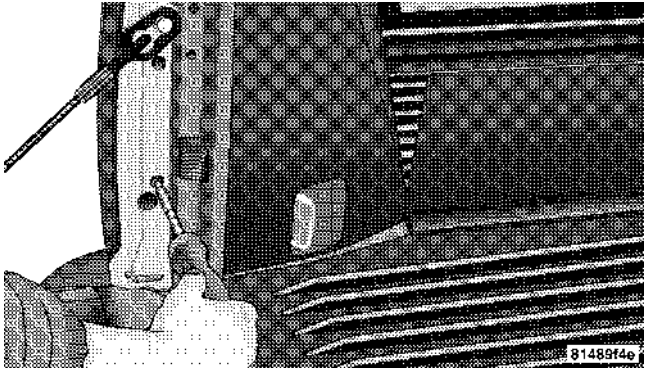
NOTE: The headlamp bulb is a halogen bulb. Take care not to touch the bulb with your fingers. Body oils from your fingers could cause excessive heat buildup which reduces bulb life.

To remove the park/turn signal bulb, rotate bulb socket 1/4-turn and remove socket from housing. Pull bulb straight from socket.

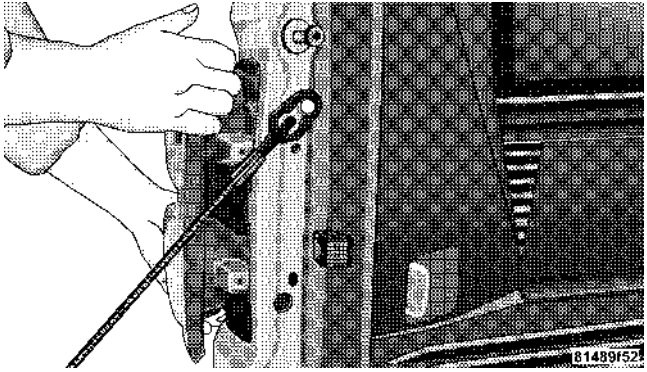


Rear Side Marker, Taillamps/Stop Lamps, And Turn Signal Bulbs

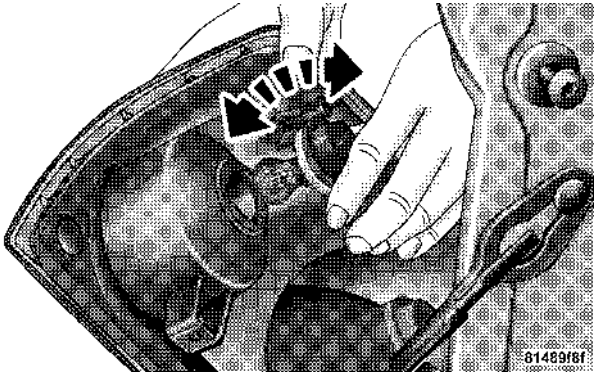
1. Remove the two screws that pass through the bed sheet metal.



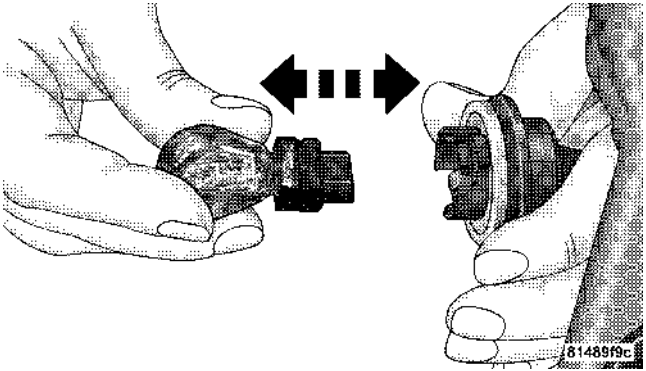
2. Pull the taillamp housing straight out from the body.



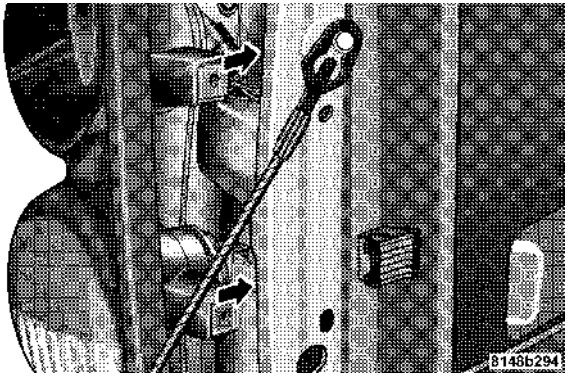
3. Rotate the bulb socket counterclockwise to remove it from the housing.



4. Pull bulb straight out of socket.

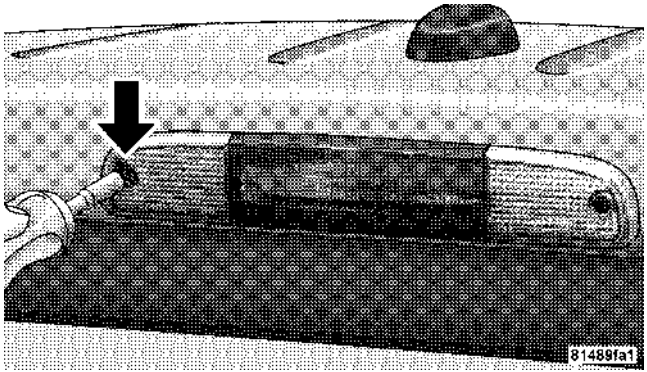


5. Reverse this procedure to install bulb and housing. Place the two raised blocks past the body.

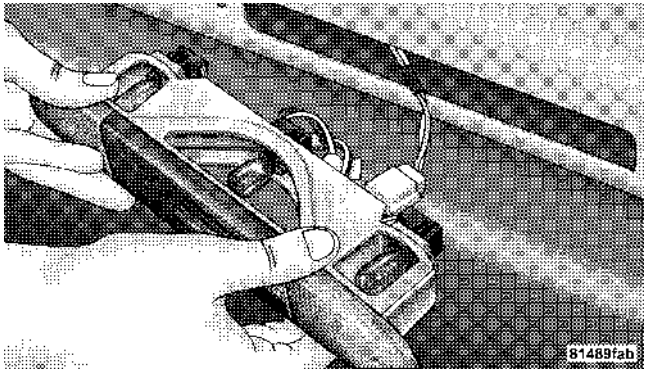


Center High-Mounted Stop Lamp And Cargo Lamp

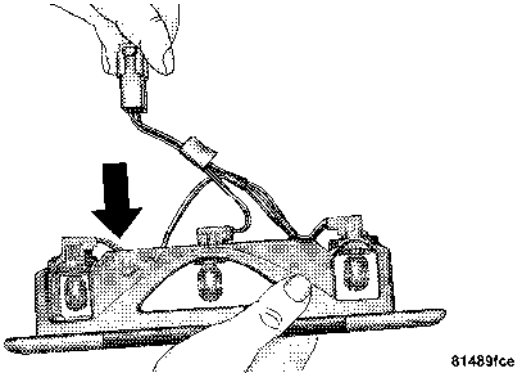
1. Remove the two screws holding the housing/lens to the body, as shown.



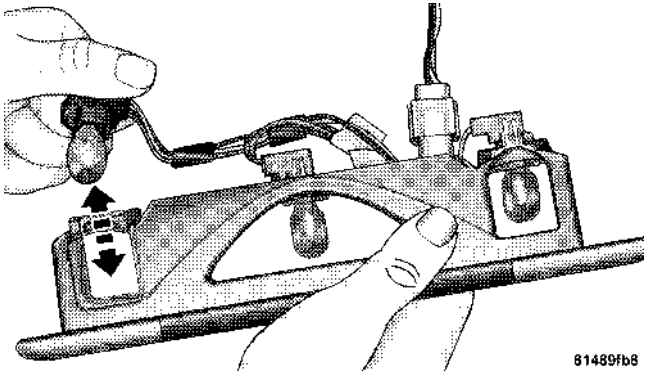
2. Remove housing from the cab.



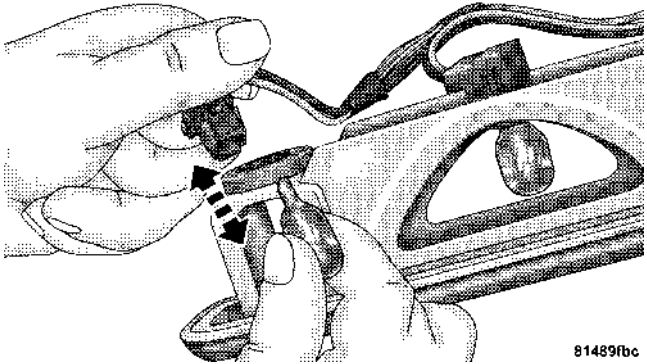
3. Remove connector from housing tab for more clearance.



4. Turn desired bulb socket 1/4-turn and remove socket and bulb from housing.



5. Pull desired bulb straight from the socket.

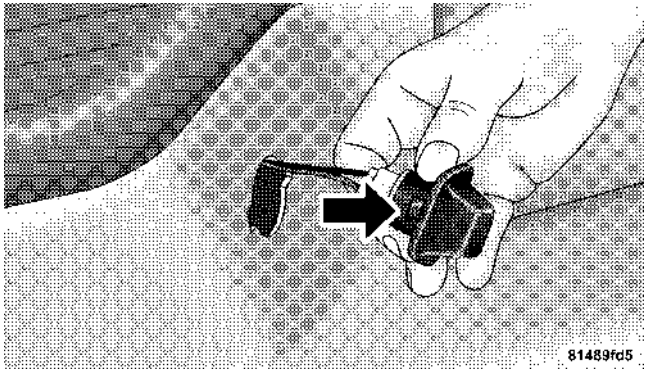


- Outside Bulbs: Cargo Lamps
- Inside Bulb: Center High Mounted Stop Lamp

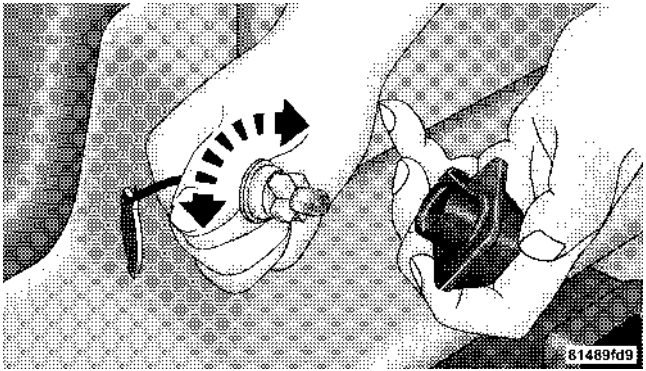
6. Reverse this procedure for installation of bulbs and housing.

License Lamps

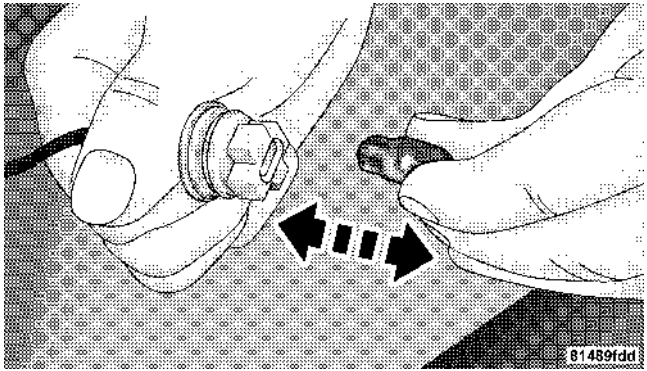
1. Using a screwdriver, pry black rubber housing from the bumper.



2. Rotate the socket 1/4-turn counterclockwise.



3. Pull bulb from socket.



4. Reverse this procedure for installation.

Fog Lamps

1. Disconnect connector from the fog lamp by raising the wire harness lock tab and pulling on wire harness connector.

2. Rotate the bulb 1/4-turn counterclockwise and pull to remove from the fog lamp housing.

3. Reverse procedure to install.

FLUID CAPACITIES

	U.S.	Metric
Fuel (Approximate)	22 Gallons	83 Liters
Engine Oil with Filter		
3.7L Engine (SAE 5W-20, API Certified)	5 Quarts	4.7 Liters
4.7L Engine (SAE 5W-20, API Certified)	6 Quarts	5.7 Liters
Cooling System (Includes 2.1 Quarts/2 Liters for Coolant Bottle)		
3.7L Engine (MOPAR® Antifreeze/Coolant 5 Year/100,000 Mile Formula or equivalent)	13.3 Quarts	12.5 Liters
4.7L Engine (MOPAR® Antifreeze/Coolant 5 Year/100,000 Mile Formula or equivalent)	13.3 Quarts	12.5 Liters

FLUIDS, LUBRICANTS AND GENUINE PARTS

Engine

Component	Fluid, Lubricant, or Genuine Part
Engine Coolant	MOPAR® Antifreeze/Coolant 5 Year/100,000 Mile Formula HOAT (Hybrid Organic Additive Technology) or equivalent.
Engine Oil	Use API Certified SAE 5W-20 Engine Oil, meeting the requirements of Chrysler Material Standard MS-6395. Refer to your engine oil filler cap for correct SAE grade.
Engine Oil Filter	MOPAR® Engine Oil Filter or equivalent.
Spark Plugs – 3.7L Engine	ZFR6F-11G (Gap 0.043 in [1.09 mm])
Spark Plugs – 4.7L Engine	Upper Bank — FR8TE2 (Gap 0.039 in [0.99 mm]) Lower Bank — FR8T1332 (Gap 0.051 in [1.30 mm])
Fuel Selection	87 Octane

Chassis

Component	Fluid, Lubricant, or Genuine Part
Automatic Transmission	MOPAR® ATF+4® Automatic Transmission Fluid or equivalent licensed ATF+4® product.
Transfer Case	MOPAR® ATF+4® Automatic Transmission Fluid or equivalent licensed ATF+4® product.
Front Axle	SAE 75W-90 Multi-Purpose Type, GL-5 Gear Lubricant (MS-9763) or equivalent.
Rear Axle	SAE 75W-140 Synthetic Gear Lubricant (MS-8985). Limited-slip rear axles require MOPAR® Limited-Slip Additive (MS-10111) or equivalent. Whenever a fluid change is made, 4 oz (118 ml) should be added to the gear lubricant.
Brake Master Cylinder	MOPAR® DOT 3 and SAE J1703 should be used. If DOT 3 brake fluid is not available, then DOT 4 is acceptable. Use only recommended brake fluids.
Power Steering Reservoir	MOPAR® Power Steering Fluid +4, MOPAR® ATF+4® Automatic Transmission Fluid or equivalent licensed ATF+4® product.

MAINTENANCE SCHEDULES

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EMISSIONS CONTROL SYSTEM MAINTENANCE

The Scheduled Maintenance services listed in **bold type** must be done at the times or mileages specified to ensure the continued proper functioning of the emissions control system. These and all other maintenance services included in this manual, should be done to provide best vehicle performance and reliability. More frequent maintenance may be needed for vehicles in severe operating conditions, such as dusty areas and very short trip driving.

Inspection and service should also be done anytime a malfunction is suspected.

NOTE: Maintenance, replacement or repair of the emissions control devices and systems on your vehicle may be performed by any automotive repair establishment or individual using any automotive part that has been certified pursuant to U.S. EPA or in the State of California, California Air Resources Board regulations.

MAINTENANCE SCHEDULE

The oil change indicator system will remind you that it is time to take your vehicle in for scheduled maintenance.

The “Change Oil” message will flash in the instrument cluster odometer and a single chime will sound, indicating that an oil change is necessary.

Based on engine operation conditions the oil change indicator message will illuminate, this means that service is required for your vehicle. Have your vehicle serviced as soon as possible, within the next 500 miles (805 km).

NOTE:

- The oil change indicator message will not monitor the time since the last oil change. Change your vehicle’s oil if it has been six months since your last oil change, even if the oil change indicator message is NOT illuminated.

- Change your engine oil more often if you drive your vehicle off-road for an extended period of time.
- Under no circumstances should oil change intervals exceed 8,000 miles (13 000 km) or six months, whichever comes first.

Your authorized dealer will reset the oil change indicator message after completing the scheduled oil change. If a scheduled oil change is performed by someone other than your authorized dealer, the message can be reset by referring to the steps described under "Electronic Vehicle Information Center (EVIC)/Oil Change Required" in "Understanding Your Instrument Panel" or under "Instrument Cluster Description/Odometer/Trip Odometer" in "Understanding Your Instrument Panel" for further information.

At Each Stop for Fuel

- Check the engine oil level about five minutes after a fully warmed engine is shut off. Checking the oil level while the vehicle is on level ground will improve the accuracy of the oil level reading. Add oil only when the level is at or below the ADD or MIN mark.
- Check the windshield washer solvent and add if required.

Once a Month

- Check tire pressure and look for unusual wear or damage.
- Inspect the battery, and clean and tighten the terminals as required.
- Check the fluid levels of the coolant reservoir, brake master cylinder, and transmission, and add as needed.

- Check all lights and other electrical items for correct operation.

At Each Oil Change

- Change the engine oil filter.
- Inspect the brake hoses and lines.

CAUTION!

Failure to perform the required maintenance items may result in damage to the vehicle.

Required Maintenance Intervals

NOTE: ** Vehicles built with the 4.7L engine are equipped with sixteen spark plugs. One set is located on the top of the engine under the coils and the second set is located on the side of the engine.

The spark plugs located under the coils are a standard plug and must be changed every 48,000 miles (78 000 km).

The spark plugs located on the side of the engine are a premium plug and must be changed every 96,000 miles (156 000 km).

8,000 Miles (13,000 km) or 6 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 8,000 miles (13 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

16,000 Miles (26,000 km) or 12 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 16,000 miles (26 000 km).
- ❏ If using your vehicle for any of the following: Dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.
- ❏ Inspect the brake linings, replace if necessary.
- ❏ Inspect the CV joints. Perform the first inspection at 16,000 miles (26 000 km) or 12 months.
- ❏ Inspect exhaust system. Perform the first inspection at 16,000 miles (26 000 km) or 12 months.
- ❏ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

24,000 Miles (39,000 km) or 18 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 24,000 miles (39 000 km).
- ❏ Inspect the CV joints.
- ❏ Inspect exhaust system.
- ❏ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

32,000 Miles (52,000 km) or 24 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 32,000 miles (52 000 km).
- ❏ Replace the engine air cleaner filter.
- ❏ **Replace the spark plugs (3.7L Engine).**
- ❏ Inspect the transfer case fluid.
- ❏ Inspect the brake linings, replace if necessary.
- ❏ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

40,000 Miles (65,000 km) or 30 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 40,000 miles (65 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

48,000 Miles (78,000 km) or 36 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 48,000 miles (78 000 km).
- ❑ If using your vehicle for any of the following: Dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.
- ❑ **Replace the top row of spark plugs (4.7L Engine). ****
- ❑ Inspect the brake linings, replace if necessary.
- ❑ Inspect the CV joints.
- ❑ Inspect exhaust system.
- ❑ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.
- ❑ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

56,000 Miles (91,000 km) or 42 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 56,000 miles (91 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

64,000 Miles (104,000 km) or 48 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 64,000 miles (104 000 km).
- ❏ Replace the engine air cleaner filter.
- ❏ **Replace the ignition cables (3.7L Engine).**
- ❏ **Replace the spark plugs (3.7L Engine).**
- ❏ Inspect the brake linings; replace if necessary.
- ❏ Change the automatic transmission fluid and filter(s) if using your vehicle for any of the following: police, taxi, fleet, or frequent trailer towing.
- ❏ Change the transfer case fluid if using your vehicle for any of the following: police, taxi, fleet, or frequent trailer towing.
- ❏ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

72,000 Miles (117,000 km) or 54 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 72,000 miles (117 000 km).
- ❑ Inspect the CV joints.
- ❑ Inspect exhaust system.
- ❑ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

80,000 Miles (130,000 km) or 60 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 80,000 miles (130 000 km).
- ❑ If using your vehicle for any of the following: Dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.
- ❑ Flush and replace the engine coolant if not done at 104,000 miles (169 000 km).
- ❑ Inspect the brake linings, replace if necessary.
- ❑ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

88,000 Miles (143,000 km) or 66 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 88,000 miles (143 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

96,000 Miles (156,000 km) or 72 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 96,000 miles (156 000 km).
- ❑ Replace the engine air cleaner filter.
- ❑ **Replace the ignition cables (4.7L Engine).**
- ❑ **Replace the top row and side row of spark plugs (4.7L Engine). ****
- ❑ **Replace the spark plugs (3.7L Engine).**
- ❑ **Inspect and replace PCV valve if necessary. †**
- ❑ Inspect the transfer case fluid.
- ❑ Inspect the brake linings, replace if necessary.
- ❑ Inspect the CV joints.
- ❑ Inspect exhaust system.
- ❑ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.
- ❑ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

104,000 Miles (169,000 km) or 78 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 104,000 miles (169 000 km).
- ❏ Flush and replace the engine coolant if not done at 60 months.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

112,000 Miles (182,000 km) or 84 Months Maintenance Service Schedule

- ❏ Change the engine oil and engine oil filter.
- ❏ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 112,000 miles (182 000 km).
- ❏ If using your vehicle for any of the following: Dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.
- ❏ Inspect the brake linings, replace if necessary.
- ❏ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

120,000 Miles (195,000 km) or 90 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 120,000 miles (195 000 km).
- ❑ Inspect the CV joints.
- ❑ Inspect exhaust system.
- ❑ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.
- ❑ Change the automatic transmission fluid and filter(s).
- ❑ Replace the accessory drive belt(s).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

128,000 Miles (208,000 km) or 96 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 128,000 miles (208 000 km).
- ❑ Replace the engine air cleaner filter.
- ❑ **Replace the ignition cables (3.7L Engine).**
- ❑ **Replace the spark plugs (3.7L Engine).**
- ❑ Change the transfer case fluid if using your vehicle for any of the following: police, taxi, fleet, or frequent trailer towing.
- ❑ Inspect the brake linings, replace if necessary.
- ❑ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

136,000 Miles (221,000 km) or 102 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 136,000 miles (221 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

144,000 Miles (234,000 km) or 108 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 144,000 miles (234 000 km).
- ❑ If using your vehicle for any of the following: Dusty or off-road conditions. Inspect the engine air cleaner filter; replace if necessary.
- ❑ **Replace the top row of spark plugs (4.7L Engine). ****
- ❑ Inspect the brake linings, replace if necessary.
- ❑ Inspect the CV joints.
- ❑ Inspect exhaust system.
- ❑ Inspect the front suspension, tie rod ends and boot seals for cracks or leaks and all parts for damage, wear, improper looseness or end play; replace if necessary.
- ❑ Inspect the front and rear axle fluid, change if using your vehicle for police, taxi, fleet, off-road or frequent trailer towing.

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

152,000 Miles (247,000 km) or 114 Months Maintenance Service Schedule

- ❑ Change the engine oil and engine oil filter.
- ❑ Rotate the tires, rotate at the first sign of irregular wear, even if it occurs before 152,000 miles (247 000 km).

Odometer Reading Date

Repair Order # Dealer Code

Signature Authorized Chrysler Dealer

† This maintenance is recommended by the manufacturer to the owner, but is not required to maintain emissions warranty.

WARNING!

- **You can be badly injured working on or around a motor vehicle. Do only service work for which you have the knowledge and the right equipment. If you have any doubt about your ability to perform a service job, take your vehicle to a competent mechanic.**
- **Failure to properly inspect and maintain your vehicle could result in a component malfunction and effect vehicle handling and performance. This could cause an accident.**

IF YOU NEED CONSUMER ASSISTANCE

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SUGGESTIONS FOR OBTAINING SERVICE FOR YOUR VEHICLE

Prepare For The Appointment

If you're having warranty work done, be sure to have the right papers with you. Take your warranty folder. All work to be performed may not be covered by the warranty. Discuss additional charges with the service manager. Keep a maintenance log of your vehicle's service history. This can often provide a clue to the current problem.

Prepare A List

Make a written list of your vehicle's problems or the specific work you want done. If you've had an accident or work done that is not on your maintenance log, let the service advisor know.

Be Reasonable With Requests

If you list a number of items and you must have your vehicle by the end of the day, discuss the situation with the service advisor and list the items in order of priority. At many authorized dealers, you may obtain a rental vehicle at a minimal daily charge. If you need a rental, it is advisable to make these arrangements when you call for an appointment.

IF YOU NEED ASSISTANCE

The manufacturer and its authorized dealers are vitally interested in your satisfaction. We want you to be happy with our products and services.

Warranty service must be done by an authorized dealer. We strongly recommend that you take the vehicle to an authorized dealer. They know your vehicle the best, and are most concerned that you get prompt and high quality service. The manufacturer's authorized dealers have the facilities, factory-trained technicians, special tools, and the latest information to ensure the vehicle is fixed correctly and in a timely manner.

This is why you should always talk to an authorized dealer's service manager first. Most matters can be resolved with this process.

- If for some reason you are still not satisfied, talk to the general manager or owner of the authorized dealership. They want to know if you need assistance.
- If an authorized dealership is unable to resolve the concern, you may contact the manufacturer's customer center.

Any communication to the manufacturer's customer center should include the following information:

- Owner's name and address
- Owner's telephone number (home and office)
- Authorized dealership name
- Vehicle Identification Number (VIN)
- Vehicle delivery date and mileage

Chrysler Group LLC Customer Center
P.O. Box 21–8004
Auburn Hills, MI 48321–8004
Phone: (866) 726–4636

Chrysler Canada Inc. Customer Center
P.O. Box 1621
Windsor, Ontario N9A 4H6
Phone: (800) 465–2001

In Mexico contact:
Av. Prolongacion Paseo de la Reforma, 1240
Sante Fe C.P. 05109
Mexico, D. F.
In Mexico City: 5081-7568
Outside Mexico City: 1-800-505-1300

Customer Assistance For The Hearing Or Speech Impaired (TDD/TTY)

To assist customers who have hearing difficulties, the manufacturer has installed special TDD (Telecommunication Devices for the Deaf) equipment at its customer center. Any hearing or speech impaired customer, who has access to a TDD or a conventional teletypewriter (TTY) in the United States, can communicate with the manufacturer by dialing 1–800–380–CHRY.

Canadian residents with hearing difficulties that require assistance can use the special needs relay service offered by Bell Canada. For TTY teletypewriter users, dial 711 and for Voice callers, dial 1 800 855-0511 to connect with a Bell Relay Service operator.

Service Contract

You may have purchased a service contract for a vehicle to help protect you from the high cost of unexpected repairs after the manufacturer's New Vehicle Limited Warranty expires. The manufacturer stands behind only the manufacturer's service contracts. If you purchased a manufacturer's service contract, you will receive Plan Provisions and an Owner Identification Card in the mail within three weeks of the vehicle delivery date. If you have any questions about the service contract, call the manufacturer's Service Contract National Customer Hotline at 1-800-521-9922 (Canadian residents, call 1-800-485-2001).

The manufacturer will not stand behind any service contract that is not the manufacturer's service contract. It is not responsible for any service contract other than the manufacturer's service contract. If you purchased a service contract that is not a manufacturer's service contract, and you require service after the manufacturer's New Vehicle Limited Warranty expires, please refer to the contract documents, and contact the person listed in those documents.

We appreciate that you have made a major investment when you purchased the vehicle. An authorized dealer has also made a major investment in facilities, tools, and training to assure that you are absolutely delighted with the ownership experience. You'll be pleased with their sincere efforts to resolve any warranty issues or related concerns.

WARNING!

Engine exhaust, some of its constituents, and certain vehicle components contain, or emit, chemicals known to the State of California to cause cancer and birth defects, or other reproductive harm. In addition, certain fluids contained in vehicles and certain products of component wear contain, or emit, chemicals known to the State of California to cause cancer and birth defects, or other reproductive harm.

WARRANTY INFORMATION

See the Warranty Information Booklet, located on the DVD, for the terms and provisions of Chrysler Group LLC warranties applicable to this vehicle and market.

MOPAR® PARTS

MOPAR® fluids, lubricants, parts, and accessories are available from an authorized dealer. They are recommended for your vehicle in order to help keep the vehicle operating at its best.

REPORTING SAFETY DEFECTS

In the 50 United States and Washington, D.C.

If you believe that your vehicle has a defect that could cause a crash or cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying the manufacturer.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your authorized dealer, and the manufacturer.

To contact NHTSA, you may either call the Auto Safety Hotline toll free at 1–888–327–4236 (TTY: 1–800–424–9153), or go to http://www.safercar.gov; or write to: Administrator, NHTSA, 1200 New Jersey Avenue, SE., West Building, Washington, D.C. 20590. You can also obtain other information about motor vehicle safety from http://www.safercar.gov.

In Canada

If you believe that your vehicle has a safety defect, you should contact the Customer Service Department immediately. Canadian customers who wish to report a safety defect to the Canadian government should contact Transport Canada, Motor Vehicle Defect Investigations and Recalls at 1-800-333-0510 or go to http://www.tc.gc.ca/roadsafety/

PUBLICATION ORDER FORMS

To order the following manuals, you may use either the website or the phone numbers listed below. Visa, Mastercard, American Express, and Discover orders are accepted. If you prefer mailing your payment, please call for an order form.

NOTE: A street address is required when ordering manuals (no P.O. Boxes).

- *Service Manuals*

  These comprehensive Service Manuals provide the information that students and professional technicians need in diagnosing/troubleshooting, problem solving, maintaining, servicing, and repairing Chrysler Group

LLC vehicles. A complete working knowledge of the vehicle, system, and/or components is written in straightforward language with illustrations, diagrams, and charts.

- *Diagnostic Procedure Manuals*

  Diagnostic Procedure Manuals are filled with diagrams, charts and detailed illustrations. These practical manuals make it easy for students and technicians to find and fix problems on computer-controlled vehicle systems and features. They show exactly how to find and correct problems the first time, using step-by-step troubleshooting and drivability procedures, proven diagnostic tests and a complete list of all tools and equipment.

- *Owner's Manuals*

  These Owner's Manuals have been prepared with the assistance of service and engineering specialists to acquaint you with specific Chrysler Group LLC vehicles. Included are starting, operating, emergency and maintenance procedures as well as specifications, capabilities and safety tips.

Call toll free at:

- **1–800–890–4038 (U.S.)**
- **1–800–387–1143 (Canada)**

Or

Visit us on the Worldwide Web at:

- **www.techauthority.com**

DEPARTMENT OF TRANSPORTATION UNIFORM TIRE QUALITY GRADES

The following tire grading categories were established by the National Highway Traffic Safety Administration. The specific grade rating assigned by the tire's manufacturer in each category is shown on the sidewall of the tires on your vehicle.

All passenger car tires must conform to Federal safety requirements in addition to these grades.

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 one-half times as well on the government course as a tire graded 100. The relative performance of tires depends upon the actual conditions of their use, however, and may depart significantly from the norm due to variations in driving habits, service practices, and differences in road characteristics and climate.

Traction Grades

The Traction grades, from highest to lowest, are AA, A, B, and C. These grades represent the tire's ability to stop on wet pavement, as measured under controlled conditions on specified government test surfaces of asphalt and concrete. A tire marked C may have poor traction performance.

WARNING!

The traction grade assigned to this tire is based on straight-ahead braking traction tests, and does not include acceleration, cornering, hydroplaning, or peak traction characteristics.

Temperature Grades

The temperature grades are A (the highest), B, and C, representing the tire's resistance to the generation of heat and its ability to dissipate heat, when tested under controlled conditions on a specified indoor laboratory test wheel. Sustained high temperature can cause the material of the tire to degenerate and reduce tire life, and excessive temperature can lead to sudden tire failure. The grade C corresponds to a level of performance, which all passenger car tires must meet under the Federal Motor Vehicle Safety Standard No. 109. Grades B and A represent higher levels of performance on the laboratory test wheel, than the minimum required by law.

WARNING!

The temperature grade for this tire is established for a tire that is properly inflated and not overloaded. Excessive speed, under-inflation, or excessive loading, either separately or in combination, can cause heat buildup and possible tire failure.

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