

# Jeep<sup>®</sup>

2012

# Wrangler

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OWNER'S MANUAL  
SUPPLEMENT

POSTAL VEHICLE

## VEHICLES SOLD IN CANADA

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## DRIVING AND ALCOHOL

Drunken driving is one of the most frequent causes of accidents.

Your driving ability can be seriously impaired with blood alcohol levels far below the legal minimum. If you are drinking, don't drive. Ride with a designated non-drinking driver, call a cab, a friend, or use public transportation.

### WARNING!

Driving after drinking can lead to an accident. Your perceptions are less sharp, your reflexes are slower, and your judgment is impaired when you have been drinking. Never drink and then drive.

This manual illustrates and describes the operation of features and equipment that are either standard or optional on this vehicle. This manual may also include a description of features and equipment that are no longer available or were not ordered on this vehicle. Please disregard any features and equipment described in this manual that are not on this vehicle.

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# INTRODUCTION

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### **INTRODUCTION**

This booklet is a supplement to the Owner's Manual. It contains information relative to the right-hand-drive Postal Model. You will find illustrations and instructions regarding operation of interior controls unique to this vehicle. The Maintenance Schedule and general care and handling of your vehicle are common with the left-hand-drive model and can be found in the accompanying Owner's Manual. You are urged to read these publications carefully.

Following the instructions and recommendations provided will help assure safe and enjoyable operation of your vehicle. After you have read the manual, it should be stored in the vehicle for convenient reference and remain with the vehicle when sold.

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# THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

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### OCCUPANT RESTRAINTS

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

- Three-point lap and shoulder belts for the driver and all passengers
- Advanced Front Air Bags for driver and front passenger
- Supplemental Seat-Mounted Side Air Bags (SAB) — if equipped
- An energy-absorbing steering column and steering wheel
- Knee bolsters/blockers for front seat occupants
- Front seat belts incorporate pretensioners that may enhance occupant protection by managing occupant energy during an impact event

- All seat belt systems (except the driver's) include Automatic Locking Retractors (ALRs), which lock the seat belt webbing into position by extending the belt all the way out and then adjusting the belt to the desired length to restrain a child seat or secure a large item in a seat — if equipped

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.

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 also can be used to hold infant and child restraint systems. For more information on LATCH, refer to Lower Anchors and Tether for CHildren (LATCH).



**NOTE:** The Advanced Front Air Bags have a multistage inflator design. This allows the air bag to have different rates of inflation based on the severity and type of collision.

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

**1. 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 Air Bag. An air bag 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.

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

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

## 8 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

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

5. If the air bag 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 air bags alone could lead to more severe injuries in a collision. The air bags work with your seat belt to restrain you properly. In some collisions, the air bags won't deploy at all. Always wear your seat belts even though you have air bags.

*(Continued)*

### **WARNING! (Continued)**

- Being too close to the steering wheel or instrument panel during Advanced Front Air Bag deployment could cause serious injury, including death. Air Bags need room to inflate. Sit back, comfortably extending your arms to reach the steering wheel or instrument panel.
- Supplemental Side Air Bag Inflatable Curtain (SABIC) and Seat-Mounted Side Air Bags (SAB) also need room to inflate. Do not lean against the door or window. Sit upright in the center of the seat.
- 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 in your vehicle are equipped with 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.

### **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.**

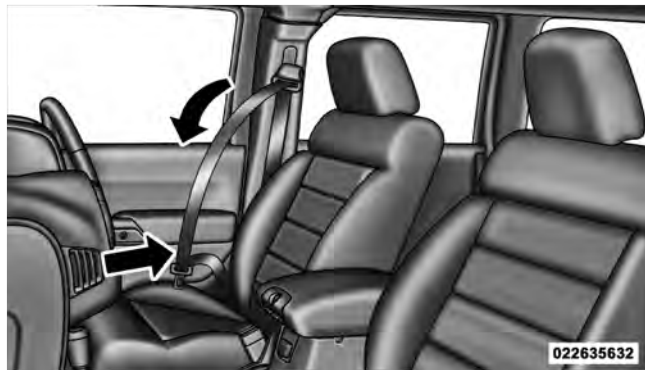
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**WARNING! (Continued)**

- **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 a collision 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.
2. The seat belt latch plate is above the back of the front seat and 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

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



Latch Plate To Buckle

**WARNING!**

- A belt that is 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 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 the 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.

**NOTE:** The Seat Belt Reminder Light will remain on until the driver and front passenger (if equipped with front passenger BeltAlert®) seat belt is buckled. For further information, refer to “Enhanced Seat Belt Use Reminder System (BeltAlert®)”.



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 cannot do its job as well. In a collision, it could even cut into you. Be sure the belt is straight. If you cannot 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 (i.e., bent retractor, torn webbing, etc.).**

### **Rear Center Lap/Shoulder Belt Retractor Lockout — Four-Door Models Only**

This feature is designed to lock the retractor whenever the 60% rear seatback is not fully latched. This prevents someone from wearing the rear center lap/shoulder belt when the rear seatback is not fully latched.

#### **NOTE:**

- If the rear center lap/shoulder belt cannot be pulled out, check that the rear seatback is fully latched.
- If the rear seatback is properly latched and the rear center lap/shoulder belt still cannot be pulled out, the Automatic-Locking Retractor (ALR) system may be activated. To reset this feature you must let all of the belt webbing return into the retractor. You will not be able to pull out more webbing until all of the webbing has been returned back into the retractor.



**WARNING!**

The rear center lap/shoulder belt is equipped with a lock-out feature to ensure that the rear seatback is in the fully upright and locked position when occupied. If the rear seatback is not fully upright and locked and the rear center lap/shoulder belt can be pulled out of the retractor, the vehicle should immediately be taken to your authorized dealer for service. Failure to follow this warning could result in serious or fatal injury.

**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.

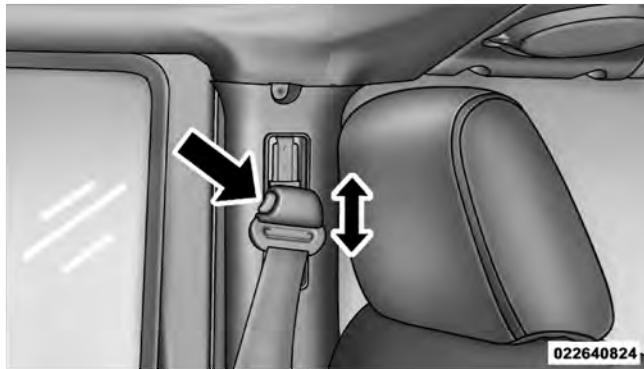
2. At about 6 to 12 in (15 to 30 cm) above the latch plate, grasp and twist the belt webbing 180 degrees to create a fold that begins immediately above the latch plate.

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.

### Adjustable Upper Shoulder Belt Anchorage

In the front seat positions, the shoulder belt anchorage can be adjusted upward or downward to position the belt away from your neck. Push in on the anchorage near your outside shoulder and slide it up or down to reach the position that serves you best.



Adjusting Upper Shoulder Belt

### WARNING!

**Position the shoulder belt height adjusters so that the belt rests across the middle of your shoulder. Failure to adjust the safety belt properly could reduce the effectiveness of the seat belt and increase the risk of injury in an accident.**

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 up or down to make sure that it is locked in position.

### 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.

### Seat Belts In Passenger Seating Positions

The seat belts in the passenger seating positions are equipped with Automatic Locking Retractors (ALR) 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 chart below defines the type of feature for each seating position.

	Passenger	Center	Driver
First Row	N/A	N/A	ALR
Second Row	ALR	ALR	ALR

- N/A — Not Applicable
- ALR — Automatic Locking Retractor

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 occupant's 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 occupant's mid-section. Slide the latch plate into the buckle until you hear a "click."

### **Automatic Locking Retractor Mode (ALR) — 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/shoulder belt. 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/shoulder belt and allow it to retract completely to disengage the Automatic Locking Mode and activate the vehicle sensitive (emergency) locking mode.

**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 collisions.

**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 may improve the performance of the seat belt by assuring that the belt is tight about the occupant early in an accident. 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 air bags, the pretensioners are single use items. A deployed pretensioner or a deployed air bag must be replaced immediately.

**Enhanced Seat Belt Use Reminder System (BeltAlert®)**

BeltAlert® is a feature intended to remind the driver and front passenger (if equipped with front passenger BeltAlert®) to fasten their seat belts. The feature is active whenever the ignition is on. If the driver or front seat passenger is unbelted, the Seat Belt Reminder Light will turn on and remain on until both front seat belts are fastened.

## 20 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

The BeltAlert® warning sequence begins within 60 seconds of the vehicle speed over 5 mph (8 km/h), by blinking the Seat Belt Reminder Light and sounding an intermittent chime. Once the sequence starts, it will continue for 96 seconds or until the respective seatbelts are fastened. After the sequence completes, the Seatbelt Reminder Light remains illuminated until the respective seatbelts are fastened. The driver should instruct all other occupants to fasten their seatbelts. If a front seatbelt is unbuckled while traveling at speeds greater than 5 mph (8 km/h), BeltAlert® will chime once and illuminate the Seat Belt Reminder Light, then will proceed to the 96 second warning sequence.

The front passenger seat BeltAlert® is not active when the front passenger seat is unoccupied. BeltAlert® may be triggered when an animal or heavy object is on the front passenger seat or when the seat is folded flat (if equipped). It is recommended that pets be restrained in

the rear seat in pet harnesses or pet carriers that are secured by seat belts, and cargo is properly stowed.

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. Turn the ignition switch to the OFF position, and buckle the driver's seat belt.
2. Turn the ignition switch to the ON/RUN position (do not start the engine), and wait for the Seat Belt Reminder Light to turn off.
3. Within 60 seconds of starting the vehicle, unbuckle and then re-buckle the driver's seat belt at least three times within 10 seconds, ending with the seat belt buckled.

4. Turn the ignition switch to the OFF position. A single chime will sound to signify that you have successfully completed the programming.

**NOTE:** Watch for 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 or front passenger's (if equipped with belt alert) seat belt remains unfastened.

### **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 across 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 and when the adjustable upper shoulder belt anchorage (if equipped) is in its lowest position, 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 when the seat belt is not long enough when it is worn low and snug, and in the recommended seating positions. Remove and stow the seat belt extender when not needed.

**Supplemental Restraint System (SRS) — Air Bags**

This vehicle has Advanced Front Air Bags for both the driver and right front passenger as a supplement to the seat belt restraint systems. The driver's Advanced Front Air Bag is mounted in the steering wheel. The Advanced Front Passenger Air Bag is mounted in the instrument panel, above the glove compartment. The letters SRS are embossed on the air bag covers.

**Advanced Front Air Bag And Knee Bolster Locations**

- 1 — Driver And Passenger Advanced Front Air Bags
- 2 — Knee Bolsters

**NOTE:** These air bags are certified to the new Federal regulations for Advanced Air Bags.



The Advanced Front Air Bags have a multistage inflator design. This allows the air bag to have different rates of inflation that are 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 Air Bags 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 Air Bags.

**NOTE:**

- Air Bag covers may not be obvious in the interior trim, but they will open during air bag deployment.

- After any accident, the vehicle should be taken to an authorized dealer immediately.

### **Air Bag System Components**

Your vehicle may be equipped with the following air bag system components:

- Occupant Restraint Controller (ORC)
- Air Bag Warning Light
- Steering Wheel and Column
- Instrument Panel
- Knee Impact Bolster
- Driver Advanced Front Air Bag
- Passenger Advanced Front Air Bag
- Supplemental Seat-Mounted Side Air Bags (SAB)
- Front and Side Impact Sensors

## 24 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

- Front Seat Belt Pretensioners, Seat Belt Buckle Switch, and Seat Track Position Sensors

### Advanced Front Air Bag Features

The Advanced Front Air Bag system has multistage driver and front passenger air bags. 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 air bag 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 air bag on the instrument panel, because any such objects could cause harm if the vehicle is in a collision severe enough to cause the air bag to inflate.
- Do not put anything on or around the air bag covers or attempt to open them manually. You may damage the air bags and you could be injured because the air bags may no longer be functional. The protective covers for the air bag cushions are designed to open only when the air bags are inflating.

*(Continued)*

**WARNING! (Continued)**

- If your vehicle is equipped with Supplemental Seat-Mounted Side Air Bags (SAB), do not use accessory seat covers or place objects between you and the SAB; the performance could be adversely affected and/or objects could be pushed into you, causing serious injury.
- If your vehicle is equipped with SAB, do not attach cupholders or any other objects on or around the door. The inflating SAB could drive the objects into occupants, causing serious injury.
- Do not cover or place items on the air bag covers. These items may cause serious injury during inflation.
- Do not drill, cut or tamper with the knee bolster in any way.

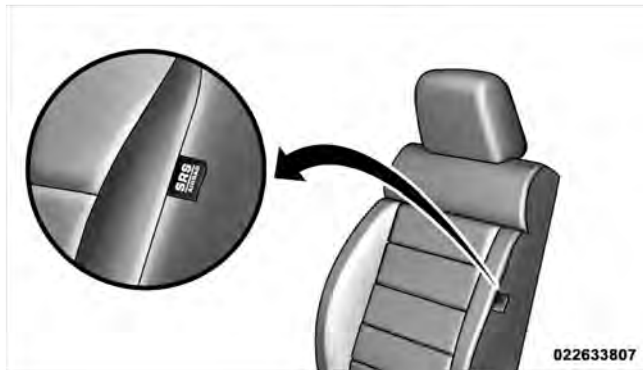
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**WARNING! (Continued)**

- Do not mount any accessories to the knee bolster such as alarm lights, stereos, citizen band radios, etc.

**Supplemental Seat-Mounted Side Air Bags (SAB)  
— If Equipped**

Supplemental Seat-Mounted Side Air Bags may provide enhanced protection to help protect an occupant during a side impact. The Supplemental Seat-Mounted Side Air Bag is marked with an air bag label sewn into the outboard side of the front seats.



### Supplemental Seat-Mounted Side Air Bag Location

When the air bag deploys, it opens the seam between the front and side of the seat's trim cover. Each air bag deploys independently; a left side impact deploys the left air bag only and a right-side impact deploys the right air bag only.

### WARNING!

Being too close to the Supplemental Seat-Mounted Side Air Bag during deployment could cause you to be severely injured or killed.

### 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 Air Bags.

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

## Air Bag 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 air bags is required in a frontal or side collision. Based on the impact sensor's signals, a central electronic ORC deploys the Advanced Front Air Bags, Supplemental Seat-Mounted Side Air Bags (SAB) — if equipped, and front seat belt pretensioners, as required, depending on the severity and type of impact.

Advanced Front Air Bags 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 Air Bags are not expected to reduce the risk of injury in rear, side, or rollover collisions.

The Advanced Front Air Bags 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 Air Bags may deploy in crashes with little vehicle front-end damage but that produce a severe initial deceleration.

The side air bags will not deploy in all side collisions. Side air bag deployment will depend on the severity and type of collision.

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

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

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

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



Also, the ORC turns on the Air Bag Warning Light for four to eight seconds for a self-check when the ignition is first turned on. After the self-check, the Air Bag Warning Light will turn off. If the ORC detects a malfunction in any part of the system, it turns on the Air Bag 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 Air Bag Warning Light if a malfunction is noted that could affect the air bag system. The diagnostics also record the nature of the malfunction.

**WARNING!**

**Ignoring the Air Bag Warning Light in your instrument panel could mean you won't have the air bags to protect you in a collision. If the light does not come on as a bulb check when the ignition is first turned on, stays on after you start the vehicle, or if it comes on as you drive, have an authorized dealer service the air bag system immediately.**

**Driver And Passenger Advanced Front Air Bag Inflator Units**

The Driver and Passenger Advanced Front Air Bag Inflator Units are located in the center of the steering wheel and on the right side of the instrument panel.

When the ORC detects a collision requiring the Advanced Front Air Bags, it signals the inflator units. A large quantity of non-toxic gas is generated to inflate the Advanced Front Air Bags. Different air bag 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 air bags inflate to their full size. The air bags fully inflate in about 50 to 70 milliseconds. This is about half of the time it takes to blink your eyes. The air bags then quickly deflate while helping to restrain the driver and front passenger.

The Advanced Front Air Bag gas is vented through the vent holes in the sides of the air bag. In this way, the air bags do not interfere with your control of the vehicle.

### **Supplemental Seat-Mounted Side Air Bags (SAB) Inflator Units — If Equipped**

The Supplemental Seat-Mounted Side Air Bags Inflator Units (if equipped) are designed to activate only in certain side collisions.

The ORC determines if a side collision requires the side air bags to inflate, based on the severity and type of collision.

Based on the severity and type of collision, the side air bag inflator on the crash side of the vehicle is triggered, releasing a quantity of non-toxic gas. The inflating SAB exits through the seat seam into the space between the occupant and the door. The SAB fully inflates in about 10 milliseconds. The side air bag moves at a very high speed and with such a high force that it could injure you if you are not seated properly, or if items are positioned in the area where the side air bag inflates. This especially applies to children.

### **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 Air Bag.

### **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 air bag 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 front air bags are designed to deflate immediately after deployment.

**NOTE:** Front and/or side air bags will not deploy in all collisions. This does not mean something is wrong with the air bag system.



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

- The nylon air bag material may sometimes cause abrasions and/or skin reddening to the driver and front passenger as the air bags 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 air bags 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 air bag 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 air bags have deployed. If you are involved in another collision, the air bags will not be in place to protect you.

### **WARNING!**

- **Deployed air bags and seat belt pretensioners cannot protect you in another collision. Have the air bags, seat belt pretensioner, and seat belt retractor assembly replaced by an authorized dealer immediately. Also, have the Occupant Restraint Controller (ORC) system serviced as well.**

*(Continued)*

**WARNING! (Continued)**

- Do not attempt to modify any part of your air bag system. The air bag may inflate accidentally or may not function properly if modifications are made. Take your vehicle to an authorized dealer for any air bag 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 air bag system for persons with disabilities, contact your authorized dealer.

**Maintaining Your Air Bag System****WARNING!**

- Modifications to any part of the air bag system could cause it to fail when you need it. You could be injured if the air bag 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 or vehicle body structure, or add aftermarket side steps or running boards.
- You need proper knee impact protection in a collision. Do not mount or locate any aftermarket equipment on or behind the knee bolsters.

*(Continued)*

**WARNING! (Continued)**

- It is dangerous to try to repair any part of the air bag system yourself. Be sure to tell anyone who works on your vehicle that it has an air bag system.

**Air Bag Warning Light**

You will want to have the air bags ready to inflate for your protection in a collision. The Air Bag Warning Light monitors the internal circuits and interconnecting wiring associated with air bag system electrical components. While the air bag system is designed to be maintenance free. If any of the following occurs, have an authorized dealer service the air bag system immediately.

- The Air Bag 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 Air Bag Warning Light remains on after the four to eight-second interval.
- The Air Bag 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 air bags 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 air bag 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

## 34 THINGS TO KNOW BEFORE STARTING YOUR VEHICLE

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.

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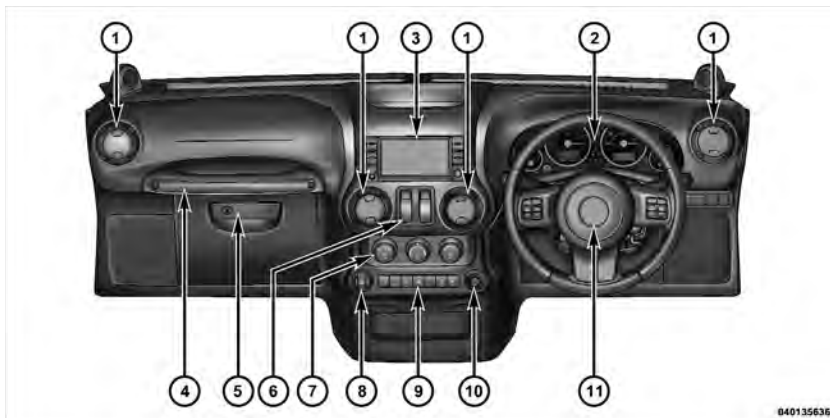
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## INSTRUMENT PANEL FEATURES



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- 1 — Air Outlet
- 2 — Instrument Cluster
- 3 — Radio
- 4 — Assist Handle
- 5 — Glove Compartment
- 6 — Power Window Switches

- 7 — Climate Controls
- 8 — Power Outlet
- 9 — Lower Switch Bank
- 10 — Power Mirror Switch — If Equipped
- 11 — Horn

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# STARTING AND OPERATING

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### **ENGINE BLOCK HEATER — IF EQUIPPED**

The engine block heater warms 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 found under the hood near the brake fluid reservoir.

Use the heater when temperatures below 0°F (-18°C) are expected to last for several days.

#### **WARNING!**

**Remember to disconnect the cord before driving. Damage to the 110-115 Volt AC electrical cord could cause electrocution.**



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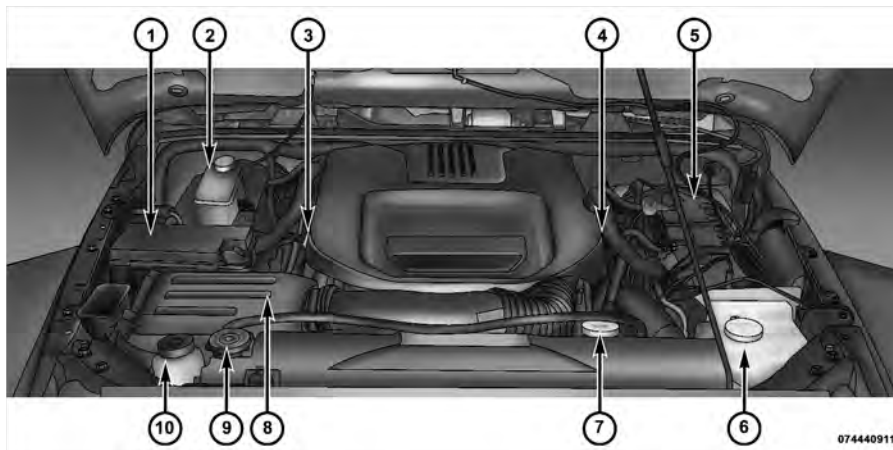
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ENGINE COMPARTMENT — 3.6L



- 1 — Integrated Power Module (Fuses)
- 2 — Brake Fluid Reservoir
- 3 — Engine Oil Dipstick
- 4 — Engine Oil Fill
- 5 — Battery

- 6 — Washer Fluid Reservoir
- 7 — Engine Coolant Reservoir
- 8 — Air Cleaner Filter
- 9 — Coolant Pressure Cap
- 10 — Power Steering Fluid Reservoir

## MAINTENANCE PROCEDURES

The Scheduled Maintenance appearing in the Owner's Manual also applies to this vehicle. The time and mileage intervals should be followed to assure proper operation of your vehicle.

Failure to perform maintenance services at the specified intervals as outlined in the "Maintenance Schedule" may void provisions of your vehicle warranty.

The right-hand-drive configuration requires different placement of some serviceable components. Refer to "Engine Compartment" in this section for component locations.



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## INSTALLATION OF RADIO TRANSMITTING EQUIPMENT

Special design considerations are incorporated into this vehicle's electronic system to provide immunity to radio frequency signals. Mobile two-way radios and telephone equipment must be installed properly by trained personnel. The following must be observed during installation.

The positive power connection should be made directly to the battery and fused as close to the battery as possible. The negative power connection should be made to body sheet metal adjacent to the negative battery connection. This connection should not be fused.

Antennas for two-way radios should be mounted on the roof or the rear area of the vehicle. Care should be used in mounting antennas with magnet bases. Magnets may affect the accuracy or operation of the compass on vehicles so equipped.

The antenna cable should be as short as practical and routed away from the vehicle wiring when possible. Use only fully shielded coaxial cable.

Carefully match the antenna and cable to the radio to ensure a low Standing Wave Ratio (SWR).

Mobile radio equipment with output power greater than normal may require special precautions.

All installations should be checked for possible interference between the communications equipment and the vehicle's electronic systems.



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